



The Initial Valuation For
City of Des Peres
as of December 31, 2022



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May 9, 2023

City of Des Peres
Des Peres, Missouri

Ladies and Gentlemen:

Submitted in this report are the results of the actuarial valuation prepared to determine the employer contribution rates required to support, for your employees, the benefits provided by the Missouri Local Government Employees Retirement System (LAGERS). This report contains the information needed to comply with Missouri State disclosure requirements regarding the adoption of LAGERS benefits by a political subdivision (Sections 105.660 - 105.685 RSMo). This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

This report was prepared at the request of the political subdivision and is intended for use by the political subdivision and those designated or approved by the political subdivision. This report may be provided to parties other than the political subdivision only in its entirety and only with the permission of the political subdivision. GRS is not responsible for unauthorized use of this report.

The contribution requirement for benefits likely to accrue as a result of the future service of your employees is described on pages 4 thru 7 as the normal cost rate and the casualty rate. This contribution rate, expressed as a percent of active employee payroll, will depend on the benefit program adopted.

The contribution requirement to pay for benefits likely to result from service rendered by your employees before you join LAGERS is described on pages 4 thru 7 as the prior service cost rate. The value established for prior service is called the unfunded actuarial accrued liability (these amounts are further described in Appendix I). The prior service cost rate is the rate of contribution designed to pay for the unfunded actuarial accrued liability over a period of not more than 30 years.

Section 70.730 of the Revised Statutes of Missouri requires participating employers to contribute the normal cost rate, casualty rate, and prior service cost rate (the total employer contribution rate as shown on pages 4 thru 7). These contributions are mandatory after official action has been taken to join the System.

The total annual dollar costs shown on pages 8 and 9 represent the dollar cost of each benefit program for a one year period based on the payroll reported for this actuarial valuation. In budgeting amounts for LAGERS contributions you should consider any changes in payroll which have been made since data was submitted for the valuation and any changes anticipated to be made before the end of the period for which you are preparing the budget.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of this report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2022.

The computed contributions required for LAGERS participation will permit the System to continue to operate in accordance with the actuarial principles of level cost financing and the State law which governs LAGERS. This valuation assumed the ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our expertise and not performed. Summary provisions of the law as well as benefit illustrations can be found in Appendices III and IV.

Projections needed to comply with Missouri State disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision are available upon request from LAGERS.

Please note that this entire report must be available as public information for at least 45 calendar days prior to the date final official action is taken by your governing body to join the System. You may wish to make notice of this report in the official minutes of the next meeting of your governing body. This action would not be binding on your subdivision, yet would establish the beginning date of the 45 day waiting period.

In accordance with LAGERS Board policy, the employer contribution rates established by this valuation report are valid for purposes of joining the System for a two year period from the date of this valuation which was December 31, 2022. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

This report includes risk commentary in Appendix VI, but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the political subdivision as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the actuarial standards of practice issued by the Actuarial Standards Board, and with applicable statutes.

Mita D. Drazilov is a member of the American Academy of Actuaries and meets the Qualification Standards of the Academy of Actuaries to render the actuarial opinions contained herein.

The signing actuary is independent of the plan sponsor.

Respectfully submitted,
Gabriel, Roeder, Smith & Company



Mita D. Drazilov, ASA, FCA, MAAA



Alternate Plan Provisions Affecting Employer Contribution Rates

The law governing LAGERS provides for a member contribution rate of either 0%, 2%, 4% or 6%, with benefits based on either a 5 year or 3 year Final Average Salary (FAS).

Member Contribution Rate - 0% Plan. Under the 0% plan, there is no individual employee contribution to the plan, no individual account maintained for each employee, and no refund paid to employees who terminate before being eligible for a benefit.

Member Contribution Rate - 2%, 4% or 6% Plan. Under any plan other than 0%, each covered member contributes a percentage of compensation to LAGERS. If an employee terminates before being eligible for an immediate benefit, the member's contributions, plus any interest credited to the member's individual account, are refunded upon request.

The law further provides for nine different benefit programs (benefit formula factors) and allows an employer to elect "rule of 80" eligibility for benefits. Under the rule of 80, employees are eligible for unreduced benefits at the earlier of (i) attainment of their minimum service retirement age or (ii) such time as their years of age plus years of LAGERS credited service equals 80.

In total this allows for 144 different combinations of benefit plans, giving employers considerable latitude in designing the retirement program which they feel best suits their particular situation.

The applicable combinations of these items may be changed from time to time, however, there are limitations on the frequency of changes. A more detailed description of plan provisions may be found in Appendix III of this report.

City of Des Peres

Employer Contribution Rates 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.60%	0.20%	6.70%	13.50%	11.60%	9.70%	7.80%
	Fire	8.40	0.60	7.60	16.60	14.70	12.80	10.90
L-3	General	8.00	0.30	8.40	16.70	14.80	12.90	11.00
	Fire	10.30	0.70	9.60	20.60	18.70	16.80	14.90
LT-4(65)	General	7.30	0.20	7.30	14.80	12.90	11.00	9.10
	Fire	10.40	0.60	9.60	20.60	18.70	16.80	14.90
LT-5(65)	General	8.50	0.30	8.90	17.70	15.80	13.90	12.00
	Fire	11.80	0.70	11.00	23.50	21.60	19.70	17.80
L-7	General	9.40	0.30	10.00	19.70	17.80	15.90	14.00
	Fire	12.20	0.80	11.50	24.50	22.60	20.70	18.80
LT-8(65)	General	9.80	0.30	10.40	20.50	18.60	16.70	14.80
	Fire	13.20	0.80	12.40	26.40	24.50	22.60	20.70
L-12	General	10.80	0.40	11.70	22.90	21.00	19.10	17.20
	Fire	14.10	0.90	13.40	28.40	26.50	24.60	22.70
LT-14(65)	General	11.00	0.40	11.90	23.30	21.40	19.50	17.60
	Fire	14.60	0.90	13.90	29.40	27.50	25.60	23.70
L-6	General	12.30	0.50	13.40	26.20	24.30	22.40	20.50
	Fire	15.90	1.00	15.30	32.20	30.30	28.40	26.50

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.

City of Des Peres

Employer Contribution Rates 3 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.80%	0.20%	6.90%	13.90%	12.00%	10.10%	8.20%
	Fire	8.70	0.60	7.90	17.20	15.30	13.40	11.50
L-3	General	8.20	0.30	8.60	17.10	15.20	13.30	11.40
	Fire	10.60	0.70	9.80	21.10	19.20	17.30	15.40
LT-4(65)	General	7.50	0.20	7.60	15.30	13.40	11.50	9.60
	Fire	10.80	0.60	9.90	21.30	19.40	17.50	15.60
LT-5(65)	General	8.80	0.30	9.10	18.20	16.30	14.40	12.50
	Fire	12.20	0.70	11.30	24.20	22.30	20.40	18.50
L-7	General	9.70	0.30	10.40	20.40	18.50	16.60	14.70
	Fire	12.60	0.80	11.80	25.20	23.30	21.40	19.50
LT-8(65)	General	10.10	0.30	10.70	21.10	19.20	17.30	15.40
	Fire	13.60	0.80	12.80	27.20	25.30	23.40	21.50
L-12	General	11.20	0.40	12.10	23.70	21.80	19.90	18.00
	Fire	14.50	0.90	13.80	29.20	27.30	25.40	23.50
LT-14(65)	General	11.40	0.40	12.30	24.10	22.20	20.30	18.40
	Fire	15.00	0.90	14.30	30.20	28.30	26.40	24.50
L-6	General	12.70	0.50	13.80	27.00	25.10	23.20	21.30
	Fire	16.40	1.00	15.80	33.20	31.30	29.40	27.50

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.

City of Des Peres

Employer Contribution Rates 5 Year FAS - Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.00%	0.20%	7.30%	14.50%	12.60%	10.70%	8.80%
	Fire	8.60	0.60	7.80	17.00	15.10	13.20	11.30
L-3	General	8.50	0.30	9.10	17.90	16.00	14.10	12.20
	Fire	10.50	0.70	9.80	21.00	19.10	17.20	15.30
LT-4(65)	General	8.20	0.20	8.70	17.10	15.20	13.30	11.40
	Fire	10.80	0.60	10.00	21.40	19.50	17.60	15.70
LT-5(65)	General	9.40	0.30	10.20	19.90	18.00	16.10	14.20
	Fire	12.10	0.70	11.40	24.20	22.30	20.40	18.50
L-7	General	10.00	0.30	10.90	21.20	19.30	17.40	15.50
	Fire	12.40	0.80	11.70	24.90	23.00	21.10	19.20
LT-8(65)	General	10.60	0.30	11.60	22.50	20.60	18.70	16.80
	Fire	13.50	0.80	12.90	27.20	25.30	23.40	21.50
L-12	General	11.50	0.40	12.70	24.60	22.70	20.80	18.90
	Fire	14.30	0.90	13.70	28.90	27.00	25.10	23.20
LT-14(65)	General	11.80	0.40	13.10	25.30	23.40	21.50	19.60
	Fire	14.80	0.90	14.30	30.00	28.10	26.20	24.30
L-6	General	13.10	0.50	14.60	28.20	26.30	24.40	22.50
	Fire	16.20	1.00	15.70	32.90	31.00	29.10	27.20

The cost for the Rule of 80 provision is very dependent upon the age at hire of the employees. If hiring practices in the future differ from those of the past, the cost for this provision could increase or decrease. The cost shown is based on the age and service characteristics of the present group.

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.



City of Des Peres

Employer Contribution Rates 3 Year FAS - Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.20%	0.20%	7.50%	14.90%	13.00%	11.10%	9.20%
	Fire	8.80	0.60	8.10	17.50	15.60	13.70	11.80
L-3	General	8.80	0.30	9.40	18.50	16.60	14.70	12.80
	Fire	10.80	0.70	10.10	21.60	19.70	17.80	15.90
LT-4(65)	General	8.40	0.20	9.00	17.60	15.70	13.80	11.90
	Fire	11.10	0.60	10.40	22.10	20.20	18.30	16.40
LT-5(65)	General	9.70	0.30	10.50	20.50	18.60	16.70	14.80
	Fire	12.50	0.70	11.80	25.00	23.10	21.20	19.30
L-7	General	10.30	0.30	11.30	21.90	20.00	18.10	16.20
	Fire	12.80	0.80	12.10	25.70	23.80	21.90	20.00
LT-8(65)	General	11.00	0.30	12.00	23.30	21.40	19.50	17.60
	Fire	13.90	0.80	13.30	28.00	26.10	24.20	22.30
L-12	General	11.90	0.40	13.20	25.50	23.60	21.70	19.80
	Fire	14.70	0.90	14.10	29.70	27.80	25.90	24.00
LT-14(65)	General	12.20	0.40	13.50	26.10	24.20	22.30	20.40
	Fire	15.30	0.90	14.70	30.90	29.00	27.10	25.20
L-6	General	13.50	0.50	15.00	29.00	27.10	25.20	23.30
	Fire	16.70	1.00	16.20	33.90	32.00	30.10	28.20

The cost for the Rule of 80 provision is very dependent upon the age at hire of the employees. If hiring practices in the future differ from those of the past, the cost for this provision could increase or decrease. The cost shown is based on the age and service characteristics of the present group.

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.

City of Des Peres

Employer Contribution Dollars General

Employer contributions are payable monthly, and each month's actual dollar contribution will be the contribution percent multiplied by the payroll during the month. If payroll during your first year of LAGERS participation equals the annual payroll reported for this valuation, the approximate employer dollar contribution for the year would be as follows:

Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 493,948	\$ 424,429	\$ 354,910	\$ 285,392
L-3	611,031	541,513	471,994	402,476
LT-4(65)	541,513	471,994	402,476	332,957
LT-5(65)	647,620	578,102	508,583	439,065
L-7	720,798	651,279	581,760	512,242
LT-8(65)	750,069	680,550	611,031	541,513
L-12	837,881	768,363	698,844	629,326
LT-14(65)	852,517	782,998	713,480	643,961
L-6	958,624	889,106	819,587	750,069

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 508,583	\$ 439,065	\$ 369,546	\$ 300,027
L-3	625,667	556,148	486,630	417,111
LT-4(65)	559,807	490,289	420,770	351,252
LT-5(65)	665,915	596,396	526,877	457,359
L-7	746,410	676,891	607,373	537,854
LT-8(65)	772,022	702,503	632,985	563,466
L-12	867,152	797,634	728,115	658,597
LT-14(65)	881,788	812,269	742,751	673,232
L-6	987,895	918,377	848,858	779,340

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 530,536	\$ 461,018	\$ 391,499	\$ 321,981
L-3	654,938	585,419	515,901	446,382
LT-4(65)	625,667	556,148	486,630	417,111
LT-5(65)	728,115	658,597	589,078	519,560
L-7	775,681	706,162	636,644	567,125
LT-8(65)	823,246	753,727	684,209	614,690
L-12	900,082	830,564	761,045	691,527
LT-14(65)	925,694	856,176	786,657	717,139
L-6	1,031,802	962,283	892,765	823,246

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 545,172	\$ 475,653	\$ 406,135	\$ 336,616
L-3	676,891	607,373	537,854	468,335
LT-4(65)	643,961	574,443	504,924	435,406
LT-5(65)	750,069	680,550	611,031	541,513
L-7	801,293	731,774	662,256	592,737
LT-8(65)	852,517	782,998	713,480	643,961
L-12	933,012	863,494	793,975	724,456
LT-14(65)	954,965	885,447	815,928	746,410
L-6	1,061,073	991,554	922,035	852,517

PLEASE NOTE THAT THE ABOVE INFORMATION IS BASED ON THE PERSONNEL AND PAYROLL DATA SUBMITTED FOR THE ACTUARIAL VALUATION. IN BUDGETING AMOUNTS FOR LAGERS CONTRIBUTIONS YOU SHOULD CONSIDER ANY CHANGES WHICH HAVE BEEN MADE SINCE DATA WAS SUBMITTED FOR THE VALUATION AND ANY CHANGES ANTICIPATED TO BE MADE BEFORE THE END OF THE PERIOD FOR WHICH YOU ARE PREPARING THE BUDGET.

City of Des Peres

Employer Contribution Dollars

Fire

Employer contributions are payable monthly, and each month's actual dollar contribution will be the contribution percent multiplied by the payroll during the month. If payroll during your first year of LAGERS participation equals the annual payroll reported for this valuation, the approximate employer dollar contribution for the year would be as follows:

Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 787,078	\$ 696,991	\$ 606,904	\$ 516,816
L-3	976,736	886,648	796,561	706,474
LT-4(65)	976,736	886,648	796,561	706,474
LT-5(65)	1,114,237	1,024,150	934,063	843,975
L-7	1,161,652	1,071,564	981,477	891,390
LT-8(65)	1,251,739	1,161,652	1,071,564	981,477
L-12	1,346,568	1,256,480	1,166,393	1,076,306
LT-14(65)	1,393,982	1,303,895	1,213,807	1,123,720
L-6	1,526,742	1,436,655	1,346,568	1,256,480

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 815,527	\$ 725,440	\$ 635,352	\$ 545,265
L-3	1,000,443	910,356	820,268	730,181
LT-4(65)	1,009,926	919,838	829,751	739,664
LT-5(65)	1,147,427	1,057,340	967,253	877,165
L-7	1,194,842	1,104,754	1,014,667	924,580
LT-8(65)	1,289,670	1,199,583	1,109,496	1,019,409
L-12	1,384,499	1,294,412	1,204,324	1,114,237
LT-14(65)	1,431,913	1,341,826	1,251,739	1,161,652
L-6	1,574,156	1,484,069	1,393,982	1,303,895

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 806,044	\$ 715,957	\$ 625,869	\$ 535,782
L-3	995,701	905,614	815,527	725,440
LT-4(65)	1,014,667	924,580	834,493	744,405
LT-5(65)	1,147,427	1,057,340	967,253	877,165
L-7	1,180,617	1,090,530	1,000,443	910,356
LT-8(65)	1,289,670	1,199,583	1,109,496	1,019,409
L-12	1,370,275	1,280,187	1,190,100	1,100,013
LT-14(65)	1,422,431	1,332,343	1,242,256	1,152,169
L-6	1,559,932	1,469,845	1,379,758	1,289,670

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 829,751	\$ 739,664	\$ 649,577	\$ 559,489
L-3	1,024,150	934,063	843,975	753,888
LT-4(65)	1,047,857	957,770	867,683	777,595
LT-5(65)	1,185,359	1,095,271	1,005,184	915,097
L-7	1,218,549	1,128,462	1,038,374	948,287
LT-8(65)	1,327,602	1,237,515	1,147,427	1,057,340
L-12	1,408,206	1,318,119	1,228,032	1,137,944
LT-14(65)	1,465,103	1,375,016	1,284,929	1,194,842
L-6	1,607,346	1,517,259	1,427,172	1,337,085

PLEASE NOTE THAT THE ABOVE INFORMATION IS BASED ON THE PERSONNEL AND PAYROLL DATA SUBMITTED FOR THE ACTUARIAL VALUATION. IN BUDGETING AMOUNTS FOR LAGERS CONTRIBUTIONS YOU SHOULD CONSIDER ANY CHANGES WHICH HAVE BEEN MADE SINCE DATA WAS SUBMITTED FOR THE VALUATION AND ANY CHANGES ANTICIPATED TO BE MADE BEFORE THE END OF THE PERIOD FOR WHICH YOU ARE PREPARING THE BUDGET.

City of Des Peres

Employees and Payroll Included in the Valuation

	General	Fire
Number of Employees	49	46
Annual Payroll	\$ 3,658,871	\$ 4,741,435

Information regarding the age and service characteristics of the employees is contained in Appendix V.

APPENDIX I

UNFUNDED ACTUARIAL ACCRUED LIABILITY

Unfunded Actuarial Accrued Liability (UAAL)

If the decision is made to join LAGERS the governing body also must decide how much credit to grant employees for their service before the membership date. The options are to cover 25%, 50%, 75% or 100% of prior service. The granting of prior service credit results in the establishment of an actuarial accrued liability. Because your political subdivision will not have established an asset balance with the System as of the membership date, the value established for prior service is an unfunded actuarial accrued liability.

The policy of the LAGERS Board of Trustees provides that unfunded liabilities are to be paid for by level percent of payroll contributions over a period of 30 years. The contribution rates shown on pages 4 through 7 as the "Prior Service Cost Rate" are designed to pay for the applicable unfunded actuarial accrued liability. This procedure will allow your political subdivision to retire the unfunded actuarial accrued liability in an orderly fashion over a period of years without the need for an immediate large payment upon joining the System.

Should the governing body elect to grant credit for 100% of the employees' prior service, the unfunded actuarial accrued liability as of the date of this valuation would be as follows:

City of Des Peres

Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 4,191,475	\$ 4,325,993
	Fire	6,205,887	6,397,298
L-3	General	5,239,419	5,407,423
	Fire	7,757,332	7,996,637
LT-4(65)	General	4,604,131	4,752,792
	Fire	7,772,332	8,015,373
LT-5(65)	General	5,548,896	5,727,559
	Fire	8,932,241	9,210,183
L-7	General	6,287,189	6,488,962
	Fire	9,308,783	9,595,888
LT-8(65)	General	6,493,530	6,702,430
	Fire	10,092,022	10,404,950
L-12	General	7,335,098	7,570,466
	Fire	10,860,338	11,195,188
LT-14(65)	General	7,438,244	7,677,141
	Fire	11,251,977	11,599,705
L-6	General	8,382,970	8,651,926
	Fire	12,411,671	12,794,513

City of Des Peres

Unfunded Actuarial Accrued Liability (UAAL)

Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 4,561,662	\$ 4,712,781
	Fire	6,360,352	6,560,049
L-3	General	5,702,242	5,890,940
	Fire	7,950,472	8,200,094
LT-4(65)	General	5,459,007	5,642,168
	Fire	8,152,634	8,412,257
LT-5(65)	General	6,375,187	6,588,084
	Fire	9,294,672	9,589,245
L-7	General	6,842,600	7,069,137
	Fire	9,540,551	9,840,076
LT-8(65)	General	7,291,184	7,533,917
	Fire	10,436,706	10,766,162
L-12	General	7,983,016	8,247,352
	Fire	11,130,678	11,480,099
LT-14(65)	General	8,207,321	8,479,720
	Fire	11,578,757	11,943,156
L-6	General	9,123,462	9,425,566
	Fire	12,720,726	13,120,193

APPENDIX II

SUMMARY OF FINANCIAL ASSUMPTIONS

Summary of Assumptions Used in Actuarial Valuations

Assumptions Adopted by Board of Trustees After Consulting With Actuary

1. The investment return rate used in making the valuations was 7.00% per year, net of investment expenses, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. The price inflation rate used in making the valuations was 2.25% and the wage inflation rate used in making the valuations was 2.75%. The 7.00% investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.25%. Adopted 2021.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were 115% of the PubG-2010 Retiree Mortality Table for males and females. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were 115% of the PubNS-2010 Disabled Retiree Mortality Table for males and females. The pre-retirement mortality tables used were 75% of the PubG-2010 Employee Mortality Table for males and females of General groups and 75% of the PubS-2010 Employee Mortality Table for males and females of Police, Fire and Public Safety groups. Mortality rates for a particular calendar year are determined by applying the MP-2020 mortality improvement scale to the above described tables. Adopted 2021.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2021.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2021.
5. Post-retirement cost of living allowances are assumed to be 2.00% per year. Adopted 2021.
6. Total active member payroll is assumed to increase 2.75% a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2021.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.
9. This report was prepared using our proprietary valuation model and related software, which in our professional judgment, has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

Schedule 1.

Separations From Active Employment (Not Including Death-in-Service) Before Age & Service Retirement and Individual Pay Increase Assumptions

		Percent of Active Members Separating Within Next Year							
Sample Ages	Years of Service	General/Public Safety Members				Police		Fire	
		Men		Women					
		Disability	Withdrawal	Disability	Withdrawal	Disability	Withdrawal	Disability	Withdrawal
All	0		20.00%		23.00%		18.00%		12.00%
	1		18.00		21.00		17.00		10.00
	2		16.00		18.00		16.00		8.00
	3		13.00		15.00		14.00		8.00
	4		12.00		13.00		13.00		7.00
25	5 & Over	0.07%	8.80	0.02%	12.40	0.10%	10.80	0.07%	6.00
30		0.10	7.10	0.03	10.20	0.11	8.50	0.11	4.50
35		0.13	5.60	0.06	7.80	0.16	6.30	0.25	3.20
40		0.18	4.10	0.09	5.80	0.22	4.60	0.39	2.40
45		0.25	3.10	0.15	4.40	0.34	3.40	0.62	1.90
50		0.37	2.40	0.22	3.50	0.53	2.10	0.95	1.30
55		0.57	1.70	0.32	2.50	0.88	1.10	1.46	0.70
60	0.86	1.10	0.45	1.40		0.00		0.00	
65			0.00		0.00		0.00		0.00

Percent Increase in Individual's Pay During Next Year			
Sample Ages	General/ Public Safety	Police	Fire
25	6.75%	6.55%	7.15%
30	5.95	5.75	6.05
35	5.35	5.25	5.15
40	4.85	4.75	4.45
45	4.25	4.25	4.05
50	3.85	3.85	3.85
55	3.65	3.65	3.45

Schedule 2.

Percent of Eligible Active Members Retiring Within Next Year Without Rule of 80 Eligibility

Early Retirement

Retirement Ages	General Members		Retirement Ages	Police/ Public Safety	Fire
	Men	Women			
55	3.00%	3.00%	50	2.50%	2.25%
56	3.00%	3.00%	51	2.50%	2.25%
57	3.00%	3.00%	52	3.00%	2.25%
58	3.00%	3.00%	53	3.00%	2.25%
59	3.00%	3.00%	54	3.50%	2.25%

Normal Retirement

Retirement Ages	General Members		Retirement Ages	Police/ Public Safety	Fire
	Men	Women			
60	10%	10%	55	11%	13%
61	10	10	56	11	13
62	25	15	57	11	13
63	20	15	58	11	13
64	20	15	59	11	13
65	25	25	60	11	15
66	25	30	61	11	20
67	20	25	62	22	20
68	20	25	63	18	20
69	20	20	64	18	20
70	100	100	65	100	100

Schedule 2. (Concluded)

Percent of Eligible Active Members Retiring Within Next Year With Rule of 80 Eligibility

Retirement Ages	General Members		Police/ Public Safety	Fire
	Men	Women		
50	20%	15%	25%	25%
51	20	15	25	20
52	15	15	15	20
53	15	15	15	20
54	15	15	15	20
55	15	15	15	20
56	15	15	15	20
57	15	15	15	25
58	15	15	15	25
59	15	15	15	25
60	15	15	15	35
61	15	15	25	35
62	25	15	20	45
63	25	15	20	45
64	25	20	20	45
65	30	25	100	100
66	30	25		
67	20	25		
68	20	25		
69	20	25		
70	100	100		

APPENDIX III

SUMMARY OF LAGERS PROVISIONS

Missouri Local Government Employees Retirement System

Brief Summary of LAGERS

Benefits and Conditions Evaluated and/or Considered as of February 28, 2022

(Section references are to RSMo)

Voluntary Retirement. Sections 70.645 & 70.600. A member may retire with an age & service allowance after both (i) completing 5 years of credited service, and (ii) attaining the minimum service retirement age.

The minimum service retirement age is age 60 for a general employee and age 55 for a police, public safety or fire employee. Optionally, employers may also elect to provide for unreduced benefits for employees whose combination of years of age and years of service equals 80 or more.

Final Average Salary. Section 70.600. The average of a member's monthly compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) of credited service producing the highest monthly average, which period is contained within the 120 consecutive months of credited service immediately preceding retirement.

Age & Service Allowance. Section 70.655. The allowance, payable monthly for life, equals a specified percent of a member's final average salary multiplied by the number of years of credited service. Each employer elects the percent applicable to its members, from the following programs:

L-1 Benefit Program:	1.00% for life
L-3 Benefit Program:	1.25% for life
L-7 Benefit Program:	1.50% for life
L-12 Benefit Program:	1.75% for life
L-6 Benefit Program:	2.00% for life
LT-4(65) Benefit Program:	1.00% for life, plus 1.00% to age 65
LT-5(65) Benefit Program:	1.25% for life, plus 0.75% to age 65
LT-8(65) Benefit Program:	1.50% for life, plus 0.50% to age 65
LT-14(65) Benefit Program:	1.75% for life, plus 0.25% to age 65

The only LT benefit programs available for adoption after August 1, 1994 are the LT(65) programs.

Benefit programs L-9 and LT-10(65) are unavailable for adoption after August 1, 2005.

Benefit program L-11, available only to groups not covered by social security, provides for 2.5% for life.

Subsequent to joining the System the governing body can elect to change benefit programs for the employees, but not more often than once every 2 years.

Early Allowance. Section 70.670. A member may retire with an early allowance after both (i) completing 5 years of credited service, and (ii) attaining age 55 if a general employee or age 50 if a police, public safety or fire employee.

The early allowance amount, payable monthly for life, is computed in the same manner as an age & service allowance, based upon the service and earnings record to time of early retirement, but reduced to reflect the fact that the age when payments begin is younger than the minimum service retirement age. The amount of the reduction is 1/2 of 1% (.005) for each month the age at retirement is younger than the minimum service retirement age.

Deferred Allowance. Section 70.675. If a member leaves LAGERS-covered employment (i) before attaining the early retirement age, and (ii) after completing 5 years of credited service, the member becomes eligible for a deferred allowance; provided the former member lives to the minimum service retirement age and does not withdraw the accumulated contributions.

The deferred allowance amount, payable monthly for life from the minimum service retirement age, is computed in the same manner as an age & service allowance, based upon the service and earnings record to time of leaving LAGERS coverage.

Deferred allowances are also payable any time after reaching the early retirement age, with the reduction for early retirement noted on the previous page.

Non-Duty Disability Allowance. Section 70.680. A member with 5 or more years of credited service who becomes totally and permanently disabled from other than duty-connected causes becomes eligible to receive a non-duty disability allowance computed in the same manner as an age & service allowance, based upon the service & earnings record to time of disability.

Duty Disability Allowance. Section 70.680. A member regardless of credited service who becomes totally and permanently disabled from duty-connected causes becomes eligible to receive a duty disability allowance computed in the same manner as an age & service allowance, based upon the earnings record to time of disability but based upon the years of credited service the member would have completed had the member continued in LAGERS-covered employment to age 60.

Death-in-Service. Section 70.661. Upon the death of a member who had completed 5 years of credited service, the eligible surviving dependents receive the following benefits:

- (a) The surviving spouse receives an allowance equal to the Option A allowance (joint and 75% survivor benefit) computed based upon the deceased members' service & earnings record to time of death.
- (b) When no spouse benefit is payable, the dependent children under age 18 (age 23 if they are full time students) each receive an equal share of 60% of an age & service allowance computed based upon the deceased member's service & earnings record to time of death.
- (c) If the death is determined to be duty related, the 5 year service requirement is waived and the benefit is based on years of credited service the member would have completed had the member continued in LAGERS-covered employment to age 60.

Benefit Changes After Retirement. Section 70.655. For retirements effective after September 28, 1975, there is an annual redetermination of monthly benefit amount, beginning the October first following 12 months of retirement. As of each October first the amount of each eligible benefit is redetermined as follows:

- (a) Subject to the maximum in (b), the redetermined amount is the amount other-wise payable multiplied by: 100% plus up to 4%, as determined by the LAGERS Board of Trustees, for each full year of retirement.
- (b) The redetermined amount may not exceed the amount otherwise payable multiplied by the ratio of the Consumer Price Index for the immediately preceding month of June to the Consumer Price Index for the month of June immediately preceding retirement.

Member Contributions. Sections 70.690 & 70.705. Each member contributes a percent of compensation beginning after completion of sufficient employment for 6 months of credited service. The law governing LAGERS has a provision for the adoption of a 2%, 4% or 6% member contribution rate.

If a member leaves LAGERS-covered employment before an allowance is payable, the accumulated contributions are refunded to the member. If the member dies, his accumulated contributions are refunded to a designated beneficiary.

The law governing LAGERS also has a provision for the adoption of a 0% plan in which the full cost of LAGERS participation is paid by the employer. Adoption of the 0% plan may be done at the time of membership or a later date; however, a change in the member contribution rate may not be made more frequently than every 2 years. Under the 0% plan there is no individual account maintained for each employee and no refund of contributions if an employee terminates before being eligible for a benefit.

Employer Contributions. Section 70.730. Each employer contributes the remainder amounts necessary to finance the employees' participation in LAGERS. Contributions to LAGERS are determined based upon level-percent-of-payroll principles, so that contribution rates do not have to increase over decades of time.

APPENDIX IV

BENEFIT ILLUSTRATIONS

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-1 Benefit Program is Years of Credited Service
times: 1.00% of FAS ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 936	\$1,461	97%
2,000	700	1,073	1,773	89%
2,500	875	1,208	2,083	83%
3,000	1,050	1,343	2,393	80%
3,500	1,225	1,480	2,705	77%
4,000	1,400	1,614	3,014	75%
25 Years of Service:				
\$1,500	\$ 375	\$ 936	\$1,311	87%
2,000	500	1,073	1,573	79%
2,500	625	1,208	1,833	73%
3,000	750	1,343	2,093	70%
3,500	875	1,480	2,355	67%
4,000	1,000	1,614	2,614	65%
15 Years of Service:				
\$1,500	\$225	\$ 936	\$1,161	77%
2,000	300	1,073	1,373	69%
2,500	375	1,208	1,583	63%
3,000	450	1,343	1,793	60%
3,500	525	1,480	2,005	57%
4,000	600	1,614	2,214	55%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-3 Benefit Program is Years of Credited Service
times: 1.25% of FAS ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total		
			\$	% of FAS	
35 Years of Service:					
\$1,500	\$ 656	\$ 936	\$1,592	106%	
2,000	875	1,073	1,948	97%	
2,500	1,094	1,208	2,302	92%	
3,000	1,313	1,343	2,656	89%	
3,500	1,531	1,480	3,011	86%	
4,000	1,750	1,614	3,364	84%	
25 Years of Service:					
\$1,500	\$ 469	\$ 936	\$1,405	94%	
2,000	625	1,073	1,698	85%	
2,500	781	1,208	1,989	80%	
3,000	938	1,343	2,281	76%	
3,500	1,094	1,480	2,574	74%	
4,000	1,250	1,614	2,864	72%	
15 Years of Service:					
\$1,500	\$281	\$ 936	\$1,217	81%	
2,000	375	1,073	1,448	72%	
2,500	469	1,208	1,677	67%	
3,000	563	1,343	1,906	64%	
3,500	656	1,480	2,136	61%	
4,000	750	1,614	2,364	59%	

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-7 Benefit Program is Years of Credited Service
times: 1.50% of FAS ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total		
			\$	% of FAS	
35 Years of Service:					
\$1,500	\$ 788	\$ 936	\$1,724	115%	
2,000	1,050	1,073	2,123	106%	
2,500	1,313	1,208	2,521	101%	
3,000	1,575	1,343	2,918	97%	
3,500	1,838	1,480	3,318	95%	
4,000	2,100	1,614	3,714	93%	
25 Years of Service:					
\$1,500	\$ 563	\$ 936	\$1,499	100%	
2,000	750	1,073	1,823	91%	
2,500	938	1,208	2,146	86%	
3,000	1,125	1,343	2,468	82%	
3,500	1,313	1,480	2,793	80%	
4,000	1,500	1,614	3,114	78%	
15 Years of Service:					
\$1,500	\$338	\$ 936	\$1,274	85%	
2,000	450	1,073	1,523	76%	
2,500	563	1,208	1,771	71%	
3,000	675	1,343	2,018	67%	
3,500	788	1,480	2,268	65%	
4,000	900	1,614	2,514	63%	

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-12 Benefit Program is Years of Credited Service
times: 1.75% of FAS ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 936	\$1,855	124%
2,000	1,225	1,073	2,298	115%
2,500	1,531	1,208	2,739	110%
3,000	1,838	1,343	3,181	106%
3,500	2,144	1,480	3,624	104%
4,000	2,450	1,614	4,064	102%
25 Years of Service:				
\$1,500	\$ 656	\$ 936	\$1,592	106%
2,000	875	1,073	1,948	97%
2,500	1,094	1,208	2,302	92%
3,000	1,313	1,343	2,656	89%
3,500	1,531	1,480	3,011	86%
4,000	1,750	1,614	3,364	84%
15 Years of Service:				
\$1,500	\$ 394	\$ 936	\$1,330	89%
2,000	525	1,073	1,598	80%
2,500	656	1,208	1,864	75%
3,000	788	1,343	2,131	71%
3,500	919	1,480	2,399	69%
4,000	1,050	1,614	2,664	67%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (L-6 Benefit Program is Years of Credited Service times: 2.00% of FAS ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 936	\$1,986	132%
2,000	1,400	1,073	2,473	124%
2,500	1,750	1,208	2,958	118%
3,000	2,100	1,343	3,443	115%
3,500	2,450	1,480	3,930	112%
4,000	2,800	1,614	4,414	110%
25 Years of Service:				
\$1,500	\$ 750	\$ 936	\$1,686	112%
2,000	1,000	1,073	2,073	104%
2,500	1,250	1,208	2,458	98%
3,000	1,500	1,343	2,843	95%
3,500	1,750	1,480	3,230	92%
4,000	2,000	1,614	3,614	90%
15 Years of Service:				
\$1,500	\$ 450	\$ 936	\$1,386	92%
2,000	600	1,073	1,673	84%
2,500	750	1,208	1,958	78%
3,000	900	1,343	2,243	75%
3,500	1,050	1,480	2,530	72%
4,000	1,200	1,614	2,814	70%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary

(LT-4(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.00% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 525	\$ 936	\$1,050	\$1,461	70%	97%
2,000	1,400	700	1,073	1,400	1,773	70%	89%
2,500	1,750	875	1,208	1,750	2,083	70%	83%
3,000	2,100	1,050	1,343	2,100	2,393	70%	80%
3,500	2,450	1,225	1,480	2,450	2,705	70%	77%
4,000	2,800	1,400	1,614	2,800	3,014	70%	75%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 936	\$ 750	\$1,311	50%	87%
2,000	1,000	500	1,073	1,000	1,573	50%	79%
2,500	1,250	625	1,208	1,250	1,833	50%	73%
3,000	1,500	750	1,343	1,500	2,093	50%	70%
3,500	1,750	875	1,480	1,750	2,355	50%	67%
4,000	2,000	1,000	1,614	2,000	2,614	50%	65%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 936	\$ 450	\$1,161	30%	77%
2,000	600	300	1,073	600	1,373	30%	69%
2,500	750	375	1,208	750	1,583	30%	63%
3,000	900	450	1,343	900	1,793	30%	60%
3,500	1,050	525	1,480	1,050	2,005	30%	57%
4,000	1,200	600	1,614	1,200	2,214	30%	55%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(LT-5(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.25% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 656	\$ 936	\$1,050	\$1,592	70%	106%
2,000	1,400	875	1,073	1,400	1,948	70%	97%
2,500	1,750	1,094	1,208	1,750	2,302	70%	92%
3,000	2,100	1,313	1,343	2,100	2,656	70%	89%
3,500	2,450	1,531	1,480	2,450	3,011	70%	86%
4,000	2,800	1,750	1,614	2,800	3,364	70%	84%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 936	\$ 750	\$1,405	50%	94%
2,000	1,000	625	1,073	1,000	1,698	50%	85%
2,500	1,250	781	1,208	1,250	1,989	50%	80%
3,000	1,500	938	1,343	1,500	2,281	50%	76%
3,500	1,750	1,094	1,480	1,750	2,574	50%	74%
4,000	2,000	1,250	1,614	2,000	2,864	50%	72%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 936	\$ 450	\$1,217	30%	81%
2,000	600	375	1,073	600	1,448	30%	72%
2,500	750	469	1,208	750	1,677	30%	67%
3,000	900	563	1,343	900	1,906	30%	64%
3,500	1,050	656	1,480	1,050	2,136	30%	61%
4,000	1,200	750	1,614	1,200	2,364	30%	59%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(LT-8(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.50% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 788	\$ 936	\$1,050	\$1,724	70%	115%
2,000	1,400	1,050	1,073	1,400	2,123	70%	106%
2,500	1,750	1,313	1,208	1,750	2,521	70%	101%
3,000	2,100	1,575	1,343	2,100	2,918	70%	97%
3,500	2,450	1,838	1,480	2,450	3,318	70%	95%
4,000	2,800	2,100	1,614	2,800	3,714	70%	93%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 936	\$ 750	\$1,499	50%	100%
2,000	1,000	750	1,073	1,000	1,823	50%	91%
2,500	1,250	938	1,208	1,250	2,146	50%	86%
3,000	1,500	1,125	1,343	1,500	2,468	50%	82%
3,500	1,750	1,313	1,480	1,750	2,793	50%	80%
4,000	2,000	1,500	1,614	2,000	3,114	50%	78%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 936	\$ 450	\$1,274	30%	85%
2,000	600	450	1,073	600	1,523	30%	76%
2,500	750	563	1,208	750	1,771	30%	71%
3,000	900	675	1,343	900	2,018	30%	67%
3,500	1,050	788	1,480	1,050	2,268	30%	65%
4,000	1,200	900	1,614	1,200	2,514	30%	63%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(LT-14(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.75% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 919	\$ 936	\$1,050	\$1,855	70%	124%
2,000	1,400	1,225	1,073	1,400	2,298	70%	115%
2,500	1,750	1,531	1,208	1,750	2,739	70%	110%
3,000	2,100	1,838	1,343	2,100	3,181	70%	106%
3,500	2,450	2,144	1,480	2,450	3,624	70%	104%
4,000	2,800	2,450	1,614	2,800	4,064	70%	102%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 936	\$ 750	\$1,592	50%	106%
2,000	1,000	875	1,073	1,000	1,948	50%	97%
2,500	1,250	1,094	1,208	1,250	2,302	50%	92%
3,000	1,500	1,313	1,343	1,500	2,656	50%	89%
3,500	1,750	1,531	1,480	1,750	3,011	50%	86%
4,000	2,000	1,750	1,614	2,000	3,364	50%	84%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 936	\$ 450	\$1,330	30%	89%
2,000	600	525	1,073	600	1,598	30%	80%
2,500	750	656	1,208	750	1,864	30%	75%
3,000	900	788	1,343	900	2,131	30%	71%
3,500	1,050	919	1,480	1,050	2,399	30%	69%
4,000	1,200	1,050	1,614	1,200	2,664	30%	67%

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2022 - it does not include any amounts which might be payable to an eligible spouse or children.

³ Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

APPENDIX V

AGE AND SERVICE CHARACTERISTICS OF EMPLOYEES

City of Des Peres - General

December 31, 2022

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24	1							1	\$ 62,586
25-29	1							1	\$ 58,071
30-34	3	1						4	\$ 242,036
35-39		3	1					4	\$ 376,796
40-44	5	4	3	1	1			14	\$ 1,030,364
45-49	2		1	1	1			5	\$ 397,168
50-54	1	1	3	1	1	1		8	\$ 586,237
55-59	2	1			1			4	\$ 247,506
60-64	2			1			1	4	\$ 287,298
65-69				1				1	\$ 68,626
70 & Over				1			2	3	\$ 302,183
Totals	17	10	8	6	4	1	3	49	\$ 3,658,871

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 47.0 years.

Benefit Service: 10.7 years.

Annual Pay: \$74,671.

City of Des Peres - Fire

December 31, 2022

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29	2							2	\$ 151,695
30-34	6	2						8	\$ 707,164
35-39	3	3	1					7	\$ 690,810
40-44	3	6	2					11	\$ 1,093,254
45-49		1	2		1	1		5	\$ 613,874
50-54			1	1	2			4	\$ 478,543
55-59					6	1	1	8	\$ 910,200
60-64			1					1	\$ 95,895
65-69									
70 & Over									
Totals	14	12	7	1	9	2	1	46	\$ 4,741,435

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 43.7 years.

Benefit Service: 11.3 years.

Annual Pay: \$103,075.

APPENDIX VI

RISK COMMENTARY

Risk Commentary

The determination of the accrued liability and the actuarially determined contribution (i.e., total employer contribution rate) requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that result from the differences between actual experience and the actuarial assumptions.

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 due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

1. **Investment Risk** – actual investment returns may differ from the expected returns;
2. **Asset/Liability Mismatch Risk** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
3. **Contribution Risk** – actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
4. **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability, contributions and contribution rates differing from expected;
5. **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
6. **Other Demographic Risks** – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rates shown on pages 4 thru 7 may be considered as a minimum contribution rate for the selected benefit provisions that complies with the Board's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.

Risk Commentary (Concluded)

PLAN MATURITY MEASURES

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures are described below.

RATIO OF MARKET VALUE OF ASSETS TO PAYROLL

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 2.5 times the payroll, a change in liability 2% other than assumed would equal 5% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

RATIO OF NET CASH FLOW TO MARKET VALUE OF ASSETS

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.

DURATION OF ACTUARIAL ACCRUED LIABILITY

The duration of the actuarial accrued liability may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, duration of 10 indicates that the liability would increase approximately 10% if the assumed rate of return were lowered 1%.

ADDITIONAL RISK ASSESSMENT

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability.



May 9, 2023 E-mail

Mr. Bill Betts, Executive Director
Missouri Local Government
Employees Retirement System
P.O. Box 1665
Jefferson City, Missouri 65102

Dear Mr. Betts:

Enclosed is the report of the December 31, 2022 Initial Actuarial Valuation of LAGERS benefits for the employees of

City of Des Peres

Sincerely,

A handwritten signature in black ink that reads "Mita Drazilov". The signature is written in a cursive, flowing style.

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp



May 9, 2023

City of Des Peres
Des Peres, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the December 31, 2022 Initial Valuation for the City of Des Peres dated May 9, 2023.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of the Initial Valuation Report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2022. The unfunded actuarial accrued liability shown for each member contribution rate option is based on the 0% member contribution rate plan.

Mita Drazilov is a member of the American Academy of Actuaries and meets the Qualification Standards of the Academy of Actuaries to render the actuarial opinions herein.

Respectfully submitted,
Gabriel, Roeder, Smith & Company

A handwritten signature in black ink that reads "Mita Drazilov". The signature is written in a cursive, flowing style.

Mita D. Drazilov, ASA, FCA, MAAA

City of Des Peres - General

Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	13.5%	\$493,948	\$ 4,191,475	16.7%	\$611,031	\$ 5,239,419	14.8%	\$541,513	\$ 4,604,131
2024	3,759,490	13.5	507,531	4,231,682	16.7	627,835	5,289,679	14.8	556,405	4,648,297
2025	3,862,876	13.5	521,488	4,267,741	16.7	645,100	5,334,753	14.8	571,706	4,687,906
2026	3,969,105	13.5	535,829	4,299,170	16.7	662,841	5,374,039	14.8	587,428	4,722,429
2027	4,078,255	13.5	550,564	4,325,448	16.7	681,069	5,406,886	14.8	603,582	4,751,294
2028	4,190,407	13.5	565,705	4,346,012	16.7	699,798	5,432,591	14.8	620,180	4,773,882
2029	4,305,643	13.5	581,262	4,360,254	16.7	719,042	5,450,394	14.8	637,235	4,789,526
2030	4,424,048	13.5	597,246	4,367,519	16.7	738,816	5,459,475	14.8	654,759	4,797,506
2031	4,545,709	13.5	613,671	4,367,099	16.7	759,133	5,458,950	14.8	672,765	4,797,044
2032	4,670,716	13.5	630,547	4,358,230	16.7	780,010	5,447,864	14.8	691,266	4,787,302

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	17.7%	\$647,620	\$ 5,548,896	19.7%	\$720,798	\$ 6,287,189	20.5%	\$750,069	\$ 6,493,530
2024	3,759,490	17.7	665,430	5,602,125	19.7	740,620	6,347,500	20.5	770,695	6,555,820
2025	3,862,876	17.7	683,729	5,649,862	19.7	760,987	6,401,588	20.5	791,890	6,611,683
2026	3,969,105	17.7	702,532	5,691,469	19.7	781,914	6,448,731	20.5	813,667	6,660,373
2027	4,078,255	17.7	721,851	5,726,257	19.7	803,416	6,488,147	20.5	836,042	6,701,083
2028	4,190,407	17.7	741,702	5,753,481	19.7	825,510	6,518,993	20.5	859,033	6,732,941
2029	4,305,643	17.7	762,099	5,772,336	19.7	848,212	6,540,356	20.5	882,657	6,755,005
2030	4,424,048	17.7	783,056	5,781,953	19.7	871,537	6,551,253	20.5	906,930	6,766,260
2031	4,545,709	17.7	804,590	5,781,397	19.7	895,505	6,550,623	20.5	931,870	6,765,609
2032	4,670,716	17.7	826,717	5,769,656	19.7	920,131	6,537,320	20.5	957,497	6,751,869

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	22.9%	\$837,881	\$ 7,335,098	23.3%	\$852,517	\$ 7,438,244	26.2%	\$958,624	\$ 8,382,970
2024	3,759,490	22.9	860,923	7,405,461	23.3	875,961	7,509,597	26.2	984,986	8,463,385
2025	3,862,876	22.9	884,599	7,468,564	23.3	900,050	7,573,588	26.2	1,012,074	8,535,503
2026	3,969,105	22.9	908,925	7,523,564	23.3	924,801	7,629,362	26.2	1,039,906	8,598,360
2027	4,078,255	22.9	933,920	7,569,550	23.3	950,233	7,675,994	26.2	1,068,503	8,650,915
2028	4,190,407	22.9	959,603	7,605,537	23.3	976,365	7,712,487	26.2	1,097,887	8,692,043
2029	4,305,643	22.9	985,992	7,630,461	23.3	1,003,215	7,737,761	26.2	1,128,078	8,720,528
2030	4,424,048	22.9	1,013,107	7,643,174	23.3	1,030,803	7,750,653	26.2	1,159,101	8,735,058
2031	4,545,709	22.9	1,040,967	7,642,439	23.3	1,059,150	7,749,907	26.2	1,190,976	8,734,217
2032	4,670,716	22.9	1,069,594	7,626,918	23.3	1,088,277	7,734,168	26.2	1,223,728	8,716,479

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	11.6%	\$424,429	\$ 4,191,475	14.8%	\$541,513	\$ 5,239,419	12.9%	\$471,994	\$ 4,604,131
2024	3,759,490	11.6	436,101	4,231,682	14.8	556,405	5,289,679	12.9	484,974	4,648,297
2025	3,862,876	11.6	448,094	4,267,741	14.8	571,706	5,334,753	12.9	498,311	4,687,906
2026	3,969,105	11.6	460,416	4,299,170	14.8	587,428	5,374,039	12.9	512,015	4,722,429
2027	4,078,255	11.6	473,078	4,325,448	14.8	603,582	5,406,886	12.9	526,095	4,751,294
2028	4,190,407	11.6	486,087	4,346,012	14.8	620,180	5,432,591	12.9	540,563	4,773,882
2029	4,305,643	11.6	499,455	4,360,254	14.8	637,235	5,450,394	12.9	555,428	4,789,526
2030	4,424,048	11.6	513,190	4,367,519	14.8	654,759	5,459,475	12.9	570,702	4,797,506
2031	4,545,709	11.6	527,302	4,367,099	14.8	672,765	5,458,950	12.9	586,396	4,797,044
2032	4,670,716	11.6	541,803	4,358,230	14.8	691,266	5,447,864	12.9	602,522	4,787,302

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	15.8%	\$578,102	\$ 5,548,896	17.8%	\$651,279	\$ 6,287,189	18.6%	\$680,550	\$ 6,493,530
2024	3,759,490	15.8	593,999	5,602,125	17.8	669,189	6,347,500	18.6	699,265	6,555,820
2025	3,862,876	15.8	610,334	5,649,862	17.8	687,592	6,401,588	18.6	718,495	6,611,683
2026	3,969,105	15.8	627,119	5,691,469	17.8	706,501	6,448,731	18.6	738,254	6,660,373
2027	4,078,255	15.8	644,364	5,726,257	17.8	725,929	6,488,147	18.6	758,555	6,701,083
2028	4,190,407	15.8	662,084	5,753,481	17.8	745,892	6,518,993	18.6	779,416	6,732,941
2029	4,305,643	15.8	680,292	5,772,336	17.8	766,404	6,540,356	18.6	800,850	6,755,005
2030	4,424,048	15.8	699,000	5,781,953	17.8	787,481	6,551,253	18.6	822,873	6,766,260
2031	4,545,709	15.8	718,222	5,781,397	17.8	809,136	6,550,623	18.6	845,502	6,765,609
2032	4,670,716	15.8	737,973	5,769,656	17.8	831,387	6,537,320	18.6	868,753	6,751,869

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	21.0%	\$768,363	\$ 7,335,098	21.4%	\$782,998	\$ 7,438,244	24.3%	\$889,106	\$ 8,382,970
2024	3,759,490	21.0	789,493	7,405,461	21.4	804,531	7,509,597	24.3	913,556	8,463,385
2025	3,862,876	21.0	811,204	7,468,564	21.4	826,655	7,573,588	24.3	938,679	8,535,503
2026	3,969,105	21.0	833,512	7,523,564	21.4	849,388	7,629,362	24.3	964,493	8,598,360
2027	4,078,255	21.0	856,434	7,569,550	21.4	872,747	7,675,994	24.3	991,016	8,650,915
2028	4,190,407	21.0	879,985	7,605,537	21.4	896,747	7,712,487	24.3	1,018,269	8,692,043
2029	4,305,643	21.0	904,185	7,630,461	21.4	921,408	7,737,761	24.3	1,046,271	8,720,528
2030	4,424,048	21.0	929,050	7,643,174	21.4	946,746	7,750,653	24.3	1,075,044	8,735,058
2031	4,545,709	21.0	954,599	7,642,439	21.4	972,782	7,749,907	24.3	1,104,607	8,734,217
2032	4,670,716	21.0	980,850	7,626,918	21.4	999,533	7,734,168	24.3	1,134,984	8,716,479

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	9.7%	\$354,910	\$ 4,191,475	12.9%	\$471,994	\$ 5,239,419	11.0%	\$402,476	\$ 4,604,131
2024	3,759,490	9.7	364,671	4,231,682	12.9	484,974	5,289,679	11.0	413,544	4,648,297
2025	3,862,876	9.7	374,699	4,267,741	12.9	498,311	5,334,753	11.0	424,916	4,687,906
2026	3,969,105	9.7	385,003	4,299,170	12.9	512,015	5,374,039	11.0	436,602	4,722,429
2027	4,078,255	9.7	395,591	4,325,448	12.9	526,095	5,406,886	11.0	448,608	4,751,294
2028	4,190,407	9.7	406,469	4,346,012	12.9	540,563	5,432,591	11.0	460,945	4,773,882
2029	4,305,643	9.7	417,647	4,360,254	12.9	555,428	5,450,394	11.0	473,621	4,789,526
2030	4,424,048	9.7	429,133	4,367,519	12.9	570,702	5,459,475	11.0	486,645	4,797,506
2031	4,545,709	9.7	440,934	4,367,099	12.9	586,396	5,458,950	11.0	500,028	4,797,044
2032	4,670,716	9.7	453,059	4,358,230	12.9	602,522	5,447,864	11.0	513,779	4,787,302

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	13.9%	\$508,583	\$ 5,548,896	15.9%	\$581,760	\$ 6,287,189	16.7%	\$611,031	\$ 6,493,530
2024	3,759,490	13.9	522,569	5,602,125	15.9	597,759	6,347,500	16.7	627,835	6,555,820
2025	3,862,876	13.9	536,940	5,649,862	15.9	614,197	6,401,588	16.7	645,100	6,611,683
2026	3,969,105	13.9	551,706	5,691,469	15.9	631,088	6,448,731	16.7	662,841	6,660,373
2027	4,078,255	13.9	566,877	5,726,257	15.9	648,443	6,488,147	16.7	681,069	6,701,083
2028	4,190,407	13.9	582,467	5,753,481	15.9	666,275	6,518,993	16.7	699,798	6,732,941
2029	4,305,643	13.9	598,484	5,772,336	15.9	684,597	6,540,356	16.7	719,042	6,755,005
2030	4,424,048	13.9	614,943	5,781,953	15.9	703,424	6,551,253	16.7	738,816	6,766,260
2031	4,545,709	13.9	631,854	5,781,397	15.9	722,768	6,550,623	16.7	759,133	6,765,609
2032	4,670,716	13.9	649,230	5,769,656	15.9	742,644	6,537,320	16.7	780,010	6,751,869

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	19.1%	\$698,844	\$ 7,335,098	19.5%	\$713,480	\$ 7,438,244	22.4%	\$819,587	\$ 8,382,970
2024	3,759,490	19.1	718,063	7,405,461	19.5	733,101	7,509,597	22.4	842,126	8,463,385
2025	3,862,876	19.1	737,809	7,468,564	19.5	753,261	7,573,588	22.4	865,284	8,535,503
2026	3,969,105	19.1	758,099	7,523,564	19.5	773,975	7,629,362	22.4	889,080	8,598,360
2027	4,078,255	19.1	778,947	7,569,550	19.5	795,260	7,675,994	22.4	913,529	8,650,915
2028	4,190,407	19.1	800,368	7,605,537	19.5	817,129	7,712,487	22.4	938,651	8,692,043
2029	4,305,643	19.1	822,378	7,630,461	19.5	839,600	7,737,761	22.4	964,464	8,720,528
2030	4,424,048	19.1	844,993	7,643,174	19.5	862,689	7,750,653	22.4	990,987	8,735,058
2031	4,545,709	19.1	868,230	7,642,439	19.5	886,413	7,749,907	22.4	1,018,239	8,734,217
2032	4,670,716	19.1	892,107	7,626,918	19.5	910,790	7,734,168	22.4	1,046,240	8,716,479

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	7.8%	\$285,392	\$ 4,191,475	11.0%	\$402,476	\$ 5,239,419	9.1%	\$332,957	\$ 4,604,131
2024	3,759,490	7.8	293,240	4,231,682	11.0	413,544	5,289,679	9.1	342,114	4,648,297
2025	3,862,876	7.8	301,304	4,267,741	11.0	424,916	5,334,753	9.1	351,522	4,687,906
2026	3,969,105	7.8	309,590	4,299,170	11.0	436,602	5,374,039	9.1	361,189	4,722,429
2027	4,078,255	7.8	318,104	4,325,448	11.0	448,608	5,406,886	9.1	371,121	4,751,294
2028	4,190,407	7.8	326,852	4,346,012	11.0	460,945	5,432,591	9.1	381,327	4,773,882
2029	4,305,643	7.8	335,840	4,360,254	11.0	473,621	5,450,394	9.1	391,814	4,789,526
2030	4,424,048	7.8	345,076	4,367,519	11.0	486,645	5,459,475	9.1	402,588	4,797,506
2031	4,545,709	7.8	354,565	4,367,099	11.0	500,028	5,458,950	9.1	413,660	4,797,044
2032	4,670,716	7.8	364,316	4,358,230	11.0	513,779	5,447,864	9.1	425,035	4,787,302

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	12.0%	\$439,065	\$ 5,548,896	14.0%	\$512,242	\$ 6,287,189	14.8%	\$541,513	\$ 6,493,530
2024	3,759,490	12.0	451,139	5,602,125	14.0	526,329	6,347,500	14.8	556,405	6,555,820
2025	3,862,876	12.0	463,545	5,649,862	14.0	540,803	6,401,588	14.8	571,706	6,611,683
2026	3,969,105	12.0	476,293	5,691,469	14.0	555,675	6,448,731	14.8	587,428	6,660,373
2027	4,078,255	12.0	489,391	5,726,257	14.0	570,956	6,488,147	14.8	603,582	6,701,083
2028	4,190,407	12.0	502,849	5,753,481	14.0	586,657	6,518,993	14.8	620,180	6,732,941
2029	4,305,643	12.0	516,677	5,772,336	14.0	602,790	6,540,356	14.8	637,235	6,755,005
2030	4,424,048	12.0	530,886	5,781,953	14.0	619,367	6,551,253	14.8	654,759	6,766,260
2031	4,545,709	12.0	545,485	5,781,397	14.0	636,399	6,550,623	14.8	672,765	6,765,609
2032	4,670,716	12.0	560,486	5,769,656	14.0	653,900	6,537,320	14.8	691,266	6,751,869

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	17.2%	\$629,326	\$ 7,335,098	17.6%	\$643,961	\$ 7,438,244	20.5%	\$750,069	\$ 8,382,970
2024	3,759,490	17.2	646,632	7,405,461	17.6	661,670	7,509,597	20.5	770,695	8,463,385
2025	3,862,876	17.2	664,415	7,468,564	17.6	679,866	7,573,588	20.5	791,890	8,535,503
2026	3,969,105	17.2	682,686	7,523,564	17.6	698,562	7,629,362	20.5	813,667	8,598,360
2027	4,078,255	17.2	701,460	7,569,550	17.6	717,773	7,675,994	20.5	836,042	8,650,915
2028	4,190,407	17.2	720,750	7,605,537	17.6	737,512	7,712,487	20.5	859,033	8,692,043
2029	4,305,643	17.2	740,571	7,630,461	17.6	757,793	7,737,761	20.5	882,657	8,720,528
2030	4,424,048	17.2	760,936	7,643,174	17.6	778,632	7,750,653	20.5	906,930	8,735,058
2031	4,545,709	17.2	781,862	7,642,439	17.6	800,045	7,749,907	20.5	931,870	8,734,217
2032	4,670,716	17.2	803,363	7,626,918	17.6	822,046	7,734,168	20.5	957,497	8,716,479

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	13.9%	\$508,583	\$ 4,325,993	17.1%	\$625,667	\$ 5,407,423	15.3%	\$559,807	\$ 4,752,792
2024	3,759,490	13.9	522,569	4,367,491	17.1	642,873	5,459,295	15.3	575,202	4,798,384
2025	3,862,876	13.9	536,940	4,404,707	17.1	660,552	5,505,815	15.3	591,020	4,839,272
2026	3,969,105	13.9	551,706	4,437,144	17.1	678,717	5,546,361	15.3	607,273	4,874,910
2027	4,078,255	13.9	566,877	4,464,265	17.1	697,382	5,580,262	15.3	623,973	4,904,707
2028	4,190,407	13.9	582,467	4,485,489	17.1	716,560	5,606,792	15.3	641,132	4,928,025
2029	4,305,643	13.9	598,484	4,500,188	17.1	736,265	5,625,166	15.3	658,763	4,944,175
2030	4,424,048	13.9	614,943	4,507,686	17.1	756,512	5,634,538	15.3	676,879	4,952,413
2031	4,545,709	13.9	631,854	4,507,252	17.1	777,316	5,633,996	15.3	695,493	4,951,936
2032	4,670,716	13.9	649,230	4,498,099	17.1	798,692	5,622,554	15.3	714,620	4,941,879

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	18.2%	\$665,915	\$ 5,727,559	20.4%	\$746,410	\$ 6,488,962	21.1%	\$772,022	\$ 6,702,430
2024	3,759,490	18.2	684,227	5,782,502	20.4	766,936	6,551,208	21.1	793,252	6,766,724
2025	3,862,876	18.2	703,043	5,831,776	20.4	788,027	6,607,032	21.1	815,067	6,824,384
2026	3,969,105	18.2	722,377	5,874,723	20.4	809,697	6,655,688	21.1	837,481	6,874,640
2027	4,078,255	18.2	742,242	5,910,631	20.4	831,964	6,696,369	21.1	860,512	6,916,659
2028	4,190,407	18.2	762,654	5,938,731	20.4	854,843	6,728,205	21.1	884,176	6,949,542
2029	4,305,643	18.2	783,627	5,958,193	20.4	878,351	6,750,254	21.1	908,491	6,972,316
2030	4,424,048	18.2	805,177	5,968,120	20.4	902,506	6,761,501	21.1	933,474	6,983,933
2031	4,545,709	18.2	827,319	5,967,546	20.4	927,325	6,760,850	21.1	959,145	6,983,261
2032	4,670,716	18.2	850,070	5,955,427	20.4	952,826	6,747,120	21.1	985,521	6,969,079

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	23.7%	\$867,152	\$ 7,570,466	24.1%	\$881,788	\$ 7,677,141	27.0%	\$987,895	\$ 8,651,926
2024	3,759,490	23.7	890,999	7,643,087	24.1	906,037	7,750,785	27.0	1,015,062	8,734,921
2025	3,862,876	23.7	915,502	7,708,215	24.1	930,953	7,816,831	27.0	1,042,977	8,809,353
2026	3,969,105	23.7	940,678	7,764,980	24.1	956,554	7,874,396	27.0	1,071,658	8,874,227
2027	4,078,255	23.7	966,546	7,812,441	24.1	982,859	7,922,526	27.0	1,101,129	8,928,468
2028	4,190,407	23.7	993,126	7,849,583	24.1	1,009,888	7,960,191	27.0	1,131,410	8,970,915
2029	4,305,643	23.7	1,020,437	7,875,307	24.1	1,037,660	7,986,277	27.0	1,162,524	9,000,313
2030	4,424,048	23.7	1,048,499	7,888,428	24.1	1,066,196	7,999,583	27.0	1,194,493	9,015,309
2031	4,545,709	23.7	1,077,333	7,887,669	24.1	1,095,516	7,998,813	27.0	1,227,341	9,014,441
2032	4,670,716	23.7	1,106,960	7,871,650	24.1	1,125,643	7,982,569	27.0	1,261,093	8,996,134

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	12.0%	\$439,065	\$ 4,325,993	15.2%	\$556,148	\$ 5,407,423	13.4%	\$490,289	\$ 4,752,792
2024	3,759,490	12.0	451,139	4,367,491	15.2	571,442	5,459,295	13.4	503,772	4,798,384
2025	3,862,876	12.0	463,545	4,404,707	15.2	587,157	5,505,815	13.4	517,625	4,839,272
2026	3,969,105	12.0	476,293	4,437,144	15.2	603,304	5,546,361	13.4	531,860	4,874,910
2027	4,078,255	12.0	489,391	4,464,265	15.2	619,895	5,580,262	13.4	546,486	4,904,707
2028	4,190,407	12.0	502,849	4,485,489	15.2	636,942	5,606,792	13.4	561,515	4,928,025
2029	4,305,643	12.0	516,677	4,500,188	15.2	654,458	5,625,166	13.4	576,956	4,944,175
2030	4,424,048	12.0	530,886	4,507,686	15.2	672,455	5,634,538	13.4	592,822	4,952,413
2031	4,545,709	12.0	545,485	4,507,252	15.2	690,948	5,633,996	13.4	609,125	4,951,936
2032	4,670,716	12.0	560,486	4,498,099	15.2	709,949	5,622,554	13.4	625,876	4,941,879

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	16.3%	\$596,396	\$ 5,727,559	18.5%	\$676,891	\$ 6,488,962	19.2%	\$702,503	\$ 6,702,430
2024	3,759,490	16.3	612,797	5,782,502	18.5	695,506	6,551,208	19.2	721,822	6,766,724
2025	3,862,876	16.3	629,649	5,831,776	18.5	714,632	6,607,032	19.2	741,672	6,824,384
2026	3,969,105	16.3	646,964	5,874,723	18.5	734,284	6,655,688	19.2	762,068	6,874,640
2027	4,078,255	16.3	664,756	5,910,631	18.5	754,477	6,696,369	19.2	783,025	6,916,659
2028	4,190,407	16.3	683,036	5,938,731	18.5	775,225	6,728,205	19.2	804,558	6,949,542
2029	4,305,643	16.3	701,820	5,958,193	18.5	796,544	6,750,254	19.2	826,683	6,972,316
2030	4,424,048	16.3	721,120	5,968,120	18.5	818,449	6,761,501	19.2	849,417	6,983,933
2031	4,545,709	16.3	740,951	5,967,546	18.5	840,956	6,760,850	19.2	872,776	6,983,261
2032	4,670,716	16.3	761,327	5,955,427	18.5	864,082	6,747,120	19.2	896,777	6,969,079

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	21.8%	\$797,634	\$ 7,570,466	22.2%	\$812,269	\$ 7,677,141	25.1%	\$918,377	\$ 8,651,926
2024	3,759,490	21.8	819,569	7,643,087	22.2	834,607	7,750,785	25.1	943,632	8,734,921
2025	3,862,876	21.8	842,107	7,708,215	22.2	857,558	7,816,831	25.1	969,582	8,809,353
2026	3,969,105	21.8	865,265	7,764,980	22.2	881,141	7,874,396	25.1	996,245	8,874,227
2027	4,078,255	21.8	889,060	7,812,441	22.2	905,373	7,922,526	25.1	1,023,642	8,928,468
2028	4,190,407	21.8	913,509	7,849,583	22.2	930,270	7,960,191	25.1	1,051,792	8,970,915
2029	4,305,643	21.8	938,630	7,875,307	22.2	955,853	7,986,277	25.1	1,080,716	9,000,313
2030	4,424,048	21.8	964,442	7,888,428	22.2	982,139	7,999,583	25.1	1,110,436	9,015,309
2031	4,545,709	21.8	990,965	7,887,669	22.2	1,009,147	7,998,813	25.1	1,140,973	9,014,441
2032	4,670,716	21.8	1,018,216	7,871,650	22.2	1,036,899	7,982,569	25.1	1,172,350	8,996,134

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	10.1%	\$369,546	\$ 4,325,993	13.3%	\$486,630	\$ 5,407,423	11.5%	\$420,770	\$ 4,752,792
2024	3,759,490	10.1	379,708	4,367,491	13.3	500,012	5,459,295	11.5	432,341	4,798,384
2025	3,862,876	10.1	390,150	4,404,707	13.3	513,763	5,505,815	11.5	444,231	4,839,272
2026	3,969,105	10.1	400,880	4,437,144	13.3	527,891	5,546,361	11.5	456,447	4,874,910
2027	4,078,255	10.1	411,904	4,464,265	13.3	542,408	5,580,262	11.5	468,999	4,904,707
2028	4,190,407	10.1	423,231	4,485,489	13.3	557,324	5,606,792	11.5	481,897	4,928,025
2029	4,305,643	10.1	434,870	4,500,188	13.3	572,651	5,625,166	11.5	495,149	4,944,175
2030	4,424,048	10.1	446,829	4,507,686	13.3	588,398	5,634,538	11.5	508,766	4,952,413
2031	4,545,709	10.1	459,117	4,507,252	13.3	604,579	5,633,996	11.5	522,757	4,951,936
2032	4,670,716	10.1	471,742	4,498,099	13.3	621,205	5,622,554	11.5	537,132	4,941,879

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	14.4%	\$526,877	\$ 5,727,559	16.6%	\$607,373	\$ 6,488,962	17.3%	\$632,985	\$ 6,702,430
2024	3,759,490	14.4	541,367	5,782,502	16.6	624,075	6,551,208	17.3	650,392	6,766,724
2025	3,862,876	14.4	556,254	5,831,776	16.6	641,237	6,607,032	17.3	668,278	6,824,384
2026	3,969,105	14.4	571,551	5,874,723	16.6	658,871	6,655,688	17.3	686,655	6,874,640
2027	4,078,255	14.4	587,269	5,910,631	16.6	676,990	6,696,369	17.3	705,538	6,916,659
2028	4,190,407	14.4	603,419	5,938,731	16.6	695,608	6,728,205	17.3	724,940	6,949,542
2029	4,305,643	14.4	620,013	5,958,193	16.6	714,737	6,750,254	17.3	744,876	6,972,316
2030	4,424,048	14.4	637,063	5,968,120	16.6	734,392	6,761,501	17.3	765,360	6,983,933
2031	4,545,709	14.4	654,582	5,967,546	16.6	754,588	6,760,850	17.3	786,408	6,983,261
2032	4,670,716	14.4	672,583	5,955,427	16.6	775,339	6,747,120	17.3	808,034	6,969,079

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	19.9%	\$728,115	\$ 7,570,466	20.3%	\$742,751	\$ 7,677,141	23.2%	\$848,858	\$ 8,651,926
2024	3,759,490	19.9	748,139	7,643,087	20.3	763,176	7,750,785	23.2	872,202	8,734,921
2025	3,862,876	19.9	768,712	7,708,215	20.3	784,164	7,816,831	23.2	896,187	8,809,353
2026	3,969,105	19.9	789,852	7,764,980	20.3	805,728	7,874,396	23.2	920,832	8,874,227
2027	4,078,255	19.9	811,573	7,812,441	20.3	827,886	7,922,526	23.2	946,155	8,928,468
2028	4,190,407	19.9	833,891	7,849,583	20.3	850,653	7,960,191	23.2	972,174	8,970,915
2029	4,305,643	19.9	856,823	7,875,307	20.3	874,046	7,986,277	23.2	998,909	9,000,313
2030	4,424,048	19.9	880,386	7,888,428	20.3	898,082	7,999,583	23.2	1,026,379	9,015,309
2031	4,545,709	19.9	904,596	7,887,669	20.3	922,779	7,998,813	23.2	1,054,604	9,014,441
2032	4,670,716	19.9	929,472	7,871,650	20.3	948,155	7,982,569	23.2	1,083,606	8,996,134

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	8.2%	\$300,027	\$ 4,325,993	11.4%	\$417,111	\$ 5,407,423	9.6%	\$351,252	\$ 4,752,792
2024	3,759,490	8.2	308,278	4,367,491	11.4	428,582	5,459,295	9.6	360,911	4,798,384
2025	3,862,876	8.2	316,756	4,404,707	11.4	440,368	5,505,815	9.6	370,836	4,839,272
2026	3,969,105	8.2	325,467	4,437,144	11.4	452,478	5,546,361	9.6	381,034	4,874,910
2027	4,078,255	8.2	334,417	4,464,265	11.4	464,921	5,580,262	9.6	391,512	4,904,707
2028	4,190,407	8.2	343,613	4,485,489	11.4	477,706	5,606,792	9.6	402,279	4,928,025
2029	4,305,643	8.2	353,063	4,500,188	11.4	490,843	5,625,166	9.6	413,342	4,944,175
2030	4,424,048	8.2	362,772	4,507,686	11.4	504,341	5,634,538	9.6	424,709	4,952,413
2031	4,545,709	8.2	372,748	4,507,252	11.4	518,211	5,633,996	9.6	436,388	4,951,936
2032	4,670,716	8.2	382,999	4,498,099	11.4	532,462	5,622,554	9.6	448,389	4,941,879

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	12.5%	\$457,359	\$ 5,727,559	14.7%	\$537,854	\$ 6,488,962	15.4%	\$563,466	\$ 6,702,430
2024	3,759,490	12.5	469,936	5,782,502	14.7	552,645	6,551,208	15.4	578,961	6,766,724
2025	3,862,876	12.5	482,860	5,831,776	14.7	567,843	6,607,032	15.4	594,883	6,824,384
2026	3,969,105	12.5	496,138	5,874,723	14.7	583,458	6,655,688	15.4	611,242	6,874,640
2027	4,078,255	12.5	509,782	5,910,631	14.7	599,503	6,696,369	15.4	628,051	6,916,659
2028	4,190,407	12.5	523,801	5,938,731	14.7	615,990	6,728,205	15.4	645,323	6,949,542
2029	4,305,643	12.5	538,205	5,958,193	14.7	632,930	6,750,254	15.4	663,069	6,972,316
2030	4,424,048	12.5	553,006	5,968,120	14.7	650,335	6,761,501	15.4	681,303	6,983,933
2031	4,545,709	12.5	568,214	5,967,546	14.7	668,219	6,760,850	15.4	700,039	6,983,261
2032	4,670,716	12.5	583,840	5,955,427	14.7	686,595	6,747,120	15.4	719,290	6,969,079

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	18.0%	\$658,597	\$ 7,570,466	18.4%	\$673,232	\$ 7,677,141	21.3%	\$779,340	\$ 8,651,926
2024	3,759,490	18.0	676,708	7,643,087	18.4	691,746	7,750,785	21.3	800,771	8,734,921
2025	3,862,876	18.0	695,318	7,708,215	18.4	710,769	7,816,831	21.3	822,793	8,809,353
2026	3,969,105	18.0	714,439	7,764,980	18.4	730,315	7,874,396	21.3	845,419	8,874,227
2027	4,078,255	18.0	734,086	7,812,441	18.4	750,399	7,922,526	21.3	868,668	8,928,468
2028	4,190,407	18.0	754,273	7,849,583	18.4	771,035	7,960,191	21.3	892,557	8,970,915
2029	4,305,643	18.0	775,016	7,875,307	18.4	792,238	7,986,277	21.3	917,102	9,000,313
2030	4,424,048	18.0	796,329	7,888,428	18.4	814,025	7,999,583	21.3	942,322	9,015,309
2031	4,545,709	18.0	818,228	7,887,669	18.4	836,410	7,998,813	21.3	968,236	9,014,441
2032	4,670,716	18.0	840,729	7,871,650	18.4	859,412	7,982,569	21.3	994,863	8,996,134

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	14.5%	\$530,536	\$ 4,561,662	17.9%	\$654,938	\$ 5,702,242	17.1%	\$625,667	\$ 5,459,007
2024	3,759,490	14.5	545,126	4,605,420	17.9	672,949	5,756,942	17.1	642,873	5,511,373
2025	3,862,876	14.5	560,117	4,644,664	17.9	691,455	5,805,998	17.1	660,552	5,558,336
2026	3,969,105	14.5	575,520	4,678,868	17.9	710,470	5,848,755	17.1	678,717	5,599,269
2027	4,078,255	14.5	591,347	4,707,466	17.9	730,008	5,884,504	17.1	697,382	5,633,493
2028	4,190,407	14.5	607,609	4,729,846	17.9	750,083	5,912,480	17.1	716,560	5,660,276
2029	4,305,643	14.5	624,318	4,745,346	17.9	770,710	5,931,856	17.1	736,265	5,678,825
2030	4,424,048	14.5	641,487	4,753,252	17.9	791,905	5,941,739	17.1	756,512	5,688,287
2031	4,545,709	14.5	659,128	4,752,795	17.9	813,682	5,941,167	17.1	777,316	5,687,740
2032	4,670,716	14.5	677,254	4,743,143	17.9	836,058	5,929,101	17.1	798,692	5,676,189

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	19.9%	\$728,115	\$ 6,375,187	21.2%	\$775,681	\$ 6,842,600	22.5%	\$823,246	\$ 7,291,184
2024	3,759,490	19.9	748,139	6,436,342	21.2	797,012	6,908,239	22.5	845,885	7,361,126
2025	3,862,876	19.9	768,712	6,491,187	21.2	818,930	6,967,105	22.5	869,147	7,423,851
2026	3,969,105	19.9	789,852	6,538,990	21.2	841,450	7,018,412	22.5	893,049	7,478,522
2027	4,078,255	19.9	811,573	6,578,958	21.2	864,590	7,061,310	22.5	917,607	7,524,232
2028	4,190,407	19.9	833,891	6,610,235	21.2	888,366	7,094,881	22.5	942,842	7,560,003
2029	4,305,643	19.9	856,823	6,631,897	21.2	912,796	7,118,131	22.5	968,770	7,584,778
2030	4,424,048	19.9	880,386	6,642,947	21.2	937,898	7,129,991	22.5	995,411	7,597,415
2031	4,545,709	19.9	904,596	6,642,308	21.2	963,690	7,129,305	22.5	1,022,785	7,596,684
2032	4,670,716	19.9	929,472	6,628,819	21.2	990,192	7,114,827	22.5	1,050,911	7,581,256

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	24.6%	\$900,082	\$ 7,983,016	25.3%	\$925,694	\$ 8,207,321	28.2%	\$1,031,802	\$ 9,123,462
2024	3,759,490	24.6	924,835	8,059,594	25.3	951,151	8,286,051	28.2	1,060,176	9,210,980
2025	3,862,876	24.6	950,267	8,128,271	25.3	977,308	8,356,658	28.2	1,089,331	9,289,468
2026	3,969,105	24.6	976,400	8,188,130	25.3	1,004,184	8,418,198	28.2	1,119,288	9,357,878
2027	4,078,255	24.6	1,003,251	8,238,178	25.3	1,031,799	8,469,652	28.2	1,150,068	9,415,076
2028	4,190,407	24.6	1,030,840	8,277,344	25.3	1,060,173	8,509,918	28.2	1,181,695	9,459,837
2029	4,305,643	24.6	1,059,188	8,304,470	25.3	1,089,328	8,537,806	28.2	1,214,191	9,490,838
2030	4,424,048	24.6	1,088,316	8,318,306	25.3	1,119,284	8,552,031	28.2	1,247,582	9,506,651
2031	4,545,709	24.6	1,118,244	8,317,506	25.3	1,150,064	8,551,208	28.2	1,281,890	9,505,736
2032	4,670,716	24.6	1,148,996	8,300,615	25.3	1,181,691	8,533,842	28.2	1,317,142	9,486,431

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	12.6%	\$461,018	\$ 4,561,662	16.0%	\$585,419	\$ 5,702,242	15.2%	\$556,148	\$ 5,459,007
2024	3,759,490	12.6	473,696	4,605,420	16.0	601,518	5,756,942	15.2	571,442	5,511,373
2025	3,862,876	12.6	486,722	4,644,664	16.0	618,060	5,805,998	15.2	587,157	5,558,336
2026	3,969,105	12.6	500,107	4,678,868	16.0	635,057	5,848,755	15.2	603,304	5,599,269
2027	4,078,255	12.6	513,860	4,707,466	16.0	652,521	5,884,504	15.2	619,895	5,633,493
2028	4,190,407	12.6	527,991	4,729,846	16.0	670,465	5,912,480	15.2	636,942	5,660,276
2029	4,305,643	12.6	542,511	4,745,346	16.0	688,903	5,931,856	15.2	654,458	5,678,825
2030	4,424,048	12.6	557,430	4,753,252	16.0	707,848	5,941,739	15.2	672,455	5,688,287
2031	4,545,709	12.6	572,759	4,752,795	16.0	727,313	5,941,167	15.2	690,948	5,687,740
2032	4,670,716	12.6	588,510	4,743,143	16.0	747,315	5,929,101	15.2	709,949	5,676,189

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	18.0%	\$658,597	\$ 6,375,187	19.3%	\$706,162	\$ 6,842,600	20.6%	\$753,727	\$ 7,291,184
2024	3,759,490	18.0	676,708	6,436,342	19.3	725,582	6,908,239	20.6	774,455	7,361,126
2025	3,862,876	18.0	695,318	6,491,187	19.3	745,535	6,967,105	20.6	795,752	7,423,851
2026	3,969,105	18.0	714,439	6,538,990	19.3	766,037	7,018,412	20.6	817,636	7,478,522
2027	4,078,255	18.0	734,086	6,578,958	19.3	787,103	7,061,310	20.6	840,121	7,524,232
2028	4,190,407	18.0	754,273	6,610,235	19.3	808,749	7,094,881	20.6	863,224	7,560,003
2029	4,305,643	18.0	775,016	6,631,897	19.3	830,989	7,118,131	20.6	886,962	7,584,778
2030	4,424,048	18.0	796,329	6,642,947	19.3	853,841	7,129,991	20.6	911,354	7,597,415
2031	4,545,709	18.0	818,228	6,642,308	19.3	877,322	7,129,305	20.6	936,416	7,596,684
2032	4,670,716	18.0	840,729	6,628,819	19.3	901,448	7,114,827	20.6	962,167	7,581,256

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	22.7%	\$830,564	\$ 7,983,016	23.4%	\$856,176	\$ 8,207,321	26.3%	\$962,283	\$ 9,123,462
2024	3,759,490	22.7	853,404	8,059,594	23.4	879,721	8,286,051	26.3	988,746	9,210,980
2025	3,862,876	22.7	876,873	8,128,271	23.4	903,913	8,356,658	26.3	1,015,936	9,289,468
2026	3,969,105	22.7	900,987	8,188,130	23.4	928,771	8,418,198	26.3	1,043,875	9,357,878
2027	4,078,255	22.7	925,764	8,238,178	23.4	954,312	8,469,652	26.3	1,072,581	9,415,076
2028	4,190,407	22.7	951,222	8,277,344	23.4	980,555	8,509,918	26.3	1,102,077	9,459,837
2029	4,305,643	22.7	977,381	8,304,470	23.4	1,007,520	8,537,806	26.3	1,132,384	9,490,838
2030	4,424,048	22.7	1,004,259	8,318,306	23.4	1,035,227	8,552,031	26.3	1,163,525	9,506,651
2031	4,545,709	22.7	1,031,876	8,317,506	23.4	1,063,696	8,551,208	26.3	1,195,521	9,505,736
2032	4,670,716	22.7	1,060,253	8,300,615	23.4	1,092,948	8,533,842	26.3	1,228,398	9,486,431

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	10.7%	\$391,499	\$ 4,561,662	14.1%	\$515,901	\$ 5,702,242	13.3%	\$486,630	\$ 5,459,007
2024	3,759,490	10.7	402,265	4,605,420	14.1	530,088	5,756,942	13.3	500,012	5,511,373
2025	3,862,876	10.7	413,328	4,644,664	14.1	544,666	5,805,998	13.3	513,763	5,558,336
2026	3,969,105	10.7	424,694	4,678,868	14.1	559,644	5,848,755	13.3	527,891	5,599,269
2027	4,078,255	10.7	436,373	4,707,466	14.1	575,034	5,884,504	13.3	542,408	5,633,493
2028	4,190,407	10.7	448,374	4,729,846	14.1	590,847	5,912,480	13.3	557,324	5,660,276
2029	4,305,643	10.7	460,704	4,745,346	14.1	607,096	5,931,856	13.3	572,651	5,678,825
2030	4,424,048	10.7	473,373	4,753,252	14.1	623,791	5,941,739	13.3	588,398	5,688,287
2031	4,545,709	10.7	486,391	4,752,795	14.1	640,945	5,941,167	13.3	604,579	5,687,740
2032	4,670,716	10.7	499,767	4,743,143	14.1	658,571	5,929,101	13.3	621,205	5,676,189

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	16.1%	\$589,078	\$ 6,375,187	17.4%	\$636,644	\$ 6,842,600	18.7%	\$684,209	\$ 7,291,184
2024	3,759,490	16.1	605,278	6,436,342	17.4	654,151	6,908,239	18.7	703,025	7,361,126
2025	3,862,876	16.1	621,923	6,491,187	17.4	672,140	6,967,105	18.7	722,358	7,423,851
2026	3,969,105	16.1	639,026	6,538,990	17.4	690,624	7,018,412	18.7	742,223	7,478,522
2027	4,078,255	16.1	656,599	6,578,958	17.4	709,616	7,061,310	18.7	762,634	7,524,232
2028	4,190,407	16.1	674,656	6,610,235	17.4	729,131	7,094,881	18.7	783,606	7,560,003
2029	4,305,643	16.1	693,209	6,631,897	17.4	749,182	7,118,131	18.7	805,155	7,584,778
2030	4,424,048	16.1	712,272	6,642,947	17.4	769,784	7,129,991	18.7	827,297	7,597,415
2031	4,545,709	16.1	731,859	6,642,308	17.4	790,953	7,129,305	18.7	850,048	7,596,684
2032	4,670,716	16.1	751,985	6,628,819	17.4	812,705	7,114,827	18.7	873,424	7,581,256

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	20.8%	\$761,045	\$ 7,983,016	21.5%	\$786,657	\$ 8,207,321	24.4%	\$892,765	\$ 9,123,462
2024	3,759,490	20.8	781,974	8,059,594	21.5	808,290	8,286,051	24.4	917,316	9,210,980
2025	3,862,876	20.8	803,478	8,128,271	21.5	830,518	8,356,658	24.4	942,542	9,289,468
2026	3,969,105	20.8	825,574	8,188,130	21.5	853,358	8,418,198	24.4	968,462	9,357,878
2027	4,078,255	20.8	848,277	8,238,178	21.5	876,825	8,469,652	24.4	995,094	9,415,076
2028	4,190,407	20.8	871,605	8,277,344	21.5	900,938	8,509,918	24.4	1,022,459	9,459,837
2029	4,305,643	20.8	895,574	8,304,470	21.5	925,713	8,537,806	24.4	1,050,577	9,490,838
2030	4,424,048	20.8	920,202	8,318,306	21.5	951,170	8,552,031	24.4	1,079,468	9,506,651
2031	4,545,709	20.8	945,507	8,317,506	21.5	977,327	8,551,208	24.4	1,109,153	9,505,736
2032	4,670,716	20.8	971,509	8,300,615	21.5	1,004,204	8,533,842	24.4	1,139,655	9,486,431

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	8.8%	\$321,981	\$ 4,561,662	12.2%	\$446,382	\$ 5,702,242	11.4%	\$417,111	\$ 5,459,007
2024	3,759,490	8.8	330,835	4,605,420	12.2	458,658	5,756,942	11.4	428,582	5,511,373
2025	3,862,876	8.8	339,933	4,644,664	12.2	471,271	5,805,998	11.4	440,368	5,558,336
2026	3,969,105	8.8	349,281	4,678,868	12.2	484,231	5,848,755	11.4	452,478	5,599,269
2027	4,078,255	8.8	358,886	4,707,466	12.2	497,547	5,884,504	11.4	464,921	5,633,493
2028	4,190,407	8.8	368,756	4,729,846	12.2	511,230	5,912,480	11.4	477,706	5,660,276
2029	4,305,643	8.8	378,897	4,745,346	12.2	525,288	5,931,856	11.4	490,843	5,678,825
2030	4,424,048	8.8	389,316	4,753,252	12.2	539,734	5,941,739	11.4	504,341	5,688,287
2031	4,545,709	8.8	400,022	4,752,795	12.2	554,576	5,941,167	11.4	518,211	5,687,740
2032	4,670,716	8.8	411,023	4,743,143	12.2	569,827	5,929,101	11.4	532,462	5,676,189

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	14.2%	\$519,560	\$ 6,375,187	15.5%	\$567,125	\$ 6,842,600	16.8%	\$614,690	\$ 7,291,184
2024	3,759,490	14.2	533,848	6,436,342	15.5	582,721	6,908,239	16.8	631,594	7,361,126
2025	3,862,876	14.2	548,528	6,491,187	15.5	598,746	6,967,105	16.8	648,963	7,423,851
2026	3,969,105	14.2	563,613	6,538,990	15.5	615,211	7,018,412	16.8	666,810	7,478,522
2027	4,078,255	14.2	579,112	6,578,958	15.5	632,130	7,061,310	16.8	685,147	7,524,232
2028	4,190,407	14.2	595,038	6,610,235	15.5	649,513	7,094,881	16.8	703,988	7,560,003
2029	4,305,643	14.2	611,401	6,631,897	15.5	667,375	7,118,131	16.8	723,348	7,584,778
2030	4,424,048	14.2	628,215	6,642,947	15.5	685,727	7,129,991	16.8	743,240	7,597,415
2031	4,545,709	14.2	645,491	6,642,308	15.5	704,585	7,129,305	16.8	763,679	7,596,684
2032	4,670,716	14.2	663,242	6,628,819	15.5	723,961	7,114,827	16.8	784,680	7,581,256

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	18.9%	\$691,527	\$ 7,983,016	19.6%	\$717,139	\$ 8,207,321	22.5%	\$823,246	\$ 9,123,462
2024	3,759,490	18.9	710,544	8,059,594	19.6	736,860	8,286,051	22.5	845,885	9,210,980
2025	3,862,876	18.9	730,084	8,128,271	19.6	757,124	8,356,658	22.5	869,147	9,289,468
2026	3,969,105	18.9	750,161	8,188,130	19.6	777,945	8,418,198	22.5	893,049	9,357,878
2027	4,078,255	18.9	770,790	8,238,178	19.6	799,338	8,469,652	22.5	917,607	9,415,076
2028	4,190,407	18.9	791,987	8,277,344	19.6	821,320	8,509,918	22.5	942,842	9,459,837
2029	4,305,643	18.9	813,767	8,304,470	19.6	843,906	8,537,806	22.5	968,770	9,490,838
2030	4,424,048	18.9	836,145	8,318,306	19.6	867,113	8,552,031	22.5	995,411	9,506,651
2031	4,545,709	18.9	859,139	8,317,506	19.6	890,959	8,551,208	22.5	1,022,785	9,505,736
2032	4,670,716	18.9	882,765	8,300,615	19.6	915,460	8,533,842	22.5	1,050,911	9,486,431

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	14.9%	\$545,172	\$ 4,712,781	18.5%	\$676,891	\$ 5,890,940	17.6%	\$643,961	\$ 5,642,168
2024	3,759,490	14.9	560,164	4,757,989	18.5	695,506	5,947,450	17.6	661,670	5,696,291
2025	3,862,876	14.9	575,569	4,798,533	18.5	714,632	5,998,129	17.6	679,866	5,744,830
2026	3,969,105	14.9	591,397	4,833,871	18.5	734,284	6,042,301	17.6	698,562	5,787,136
2027	4,078,255	14.9	607,660	4,863,417	18.5	754,477	6,079,233	17.6	717,773	5,822,508
2028	4,190,407	14.9	624,371	4,886,539	18.5	775,225	6,108,135	17.6	737,512	5,850,189
2029	4,305,643	14.9	641,541	4,902,553	18.5	796,544	6,128,152	17.6	757,793	5,869,361
2030	4,424,048	14.9	659,183	4,910,721	18.5	818,449	6,138,362	17.6	778,632	5,879,140
2031	4,545,709	14.9	677,311	4,910,248	18.5	840,956	6,137,771	17.6	800,045	5,878,574
2032	4,670,716	14.9	695,937	4,900,276	18.5	864,082	6,125,306	17.6	822,046	5,866,636

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	20.5%	\$750,069	\$ 6,588,084	21.9%	\$801,293	\$ 7,069,137	23.3%	\$852,517	\$ 7,533,917
2024	3,759,490	20.5	770,695	6,651,281	21.9	823,328	7,136,949	23.3	875,961	7,606,187
2025	3,862,876	20.5	791,890	6,707,958	21.9	845,970	7,197,764	23.3	900,050	7,671,001
2026	3,969,105	20.5	813,667	6,757,357	21.9	869,234	7,250,770	23.3	924,801	7,727,492
2027	4,078,255	20.5	836,042	6,798,660	21.9	893,138	7,295,088	23.3	950,233	7,774,724
2028	4,190,407	20.5	859,033	6,830,982	21.9	917,699	7,329,770	23.3	976,365	7,811,686
2029	4,305,643	20.5	882,657	6,853,368	21.9	942,936	7,353,790	23.3	1,003,215	7,837,286
2030	4,424,048	20.5	906,930	6,864,787	21.9	968,867	7,366,042	23.3	1,030,803	7,850,344
2031	4,545,709	20.5	931,870	6,864,126	21.9	995,510	7,365,333	23.3	1,059,150	7,849,589
2032	4,670,716	20.5	957,497	6,850,186	21.9	1,022,887	7,350,375	23.3	1,088,277	7,833,648

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	25.5%	\$933,012	\$ 8,247,352	26.1%	\$954,965	\$ 8,479,720	29.0%	\$1,061,073	\$ 9,425,566
2024	3,759,490	25.5	958,670	8,326,466	26.1	981,227	8,561,063	29.0	1,090,252	9,515,982
2025	3,862,876	25.5	985,033	8,397,417	26.1	1,008,211	8,634,013	29.0	1,120,234	9,597,069
2026	3,969,105	25.5	1,012,122	8,459,258	26.1	1,035,936	8,697,596	29.0	1,151,040	9,667,744
2027	4,078,255	25.5	1,039,955	8,510,963	26.1	1,064,425	8,750,758	29.0	1,182,694	9,726,836
2028	4,190,407	25.5	1,068,554	8,551,426	26.1	1,093,696	8,792,361	29.0	1,215,218	9,773,079
2029	4,305,643	25.5	1,097,939	8,579,450	26.1	1,123,773	8,821,174	29.0	1,248,636	9,805,106
2030	4,424,048	25.5	1,128,132	8,593,745	26.1	1,154,677	8,835,871	29.0	1,282,974	9,821,443
2031	4,545,709	25.5	1,159,156	8,592,918	26.1	1,186,430	8,835,021	29.0	1,318,256	9,820,498
2032	4,670,716	25.5	1,191,033	8,575,467	26.1	1,219,057	8,817,079	29.0	1,354,508	9,800,554

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	13.0%	\$475,653	\$ 4,712,781	16.6%	\$607,373	\$ 5,890,940	15.7%	\$574,443	\$ 5,642,168
2024	3,759,490	13.0	488,734	4,757,989	16.6	624,075	5,947,450	15.7	590,240	5,696,291
2025	3,862,876	13.0	502,174	4,798,533	16.6	641,237	5,998,129	15.7	606,472	5,744,830
2026	3,969,105	13.0	515,984	4,833,871	16.6	658,871	6,042,301	15.7	623,149	5,787,136
2027	4,078,255	13.0	530,173	4,863,417	16.6	676,990	6,079,233	15.7	640,286	5,822,508
2028	4,190,407	13.0	544,753	4,886,539	16.6	695,608	6,108,135	15.7	657,894	5,850,189
2029	4,305,643	13.0	559,734	4,902,553	16.6	714,737	6,128,152	15.7	675,986	5,869,361
2030	4,424,048	13.0	575,126	4,910,721	16.6	734,392	6,138,362	15.7	694,576	5,879,140
2031	4,545,709	13.0	590,942	4,910,248	16.6	754,588	6,137,771	15.7	713,676	5,878,574
2032	4,670,716	13.0	607,193	4,900,276	16.6	775,339	6,125,306	15.7	733,302	5,866,636

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	18.6%	\$680,550	\$ 6,588,084	20.0%	\$731,774	\$ 7,069,137	21.4%	\$782,998	\$ 7,533,917
2024	3,759,490	18.6	699,265	6,651,281	20.0	751,898	7,136,949	21.4	804,531	7,606,187
2025	3,862,876	18.6	718,495	6,707,958	20.0	772,575	7,197,764	21.4	826,655	7,671,001
2026	3,969,105	18.6	738,254	6,757,357	20.0	793,821	7,250,770	21.4	849,388	7,727,492
2027	4,078,255	18.6	758,555	6,798,660	20.0	815,651	7,295,088	21.4	872,747	7,774,724
2028	4,190,407	18.6	779,416	6,830,982	20.0	838,081	7,329,770	21.4	896,747	7,811,686
2029	4,305,643	18.6	800,850	6,853,368	20.0	861,129	7,353,790	21.4	921,408	7,837,286
2030	4,424,048	18.6	822,873	6,864,787	20.0	884,810	7,366,042	21.4	946,746	7,850,344
2031	4,545,709	18.6	845,502	6,864,126	20.0	909,142	7,365,333	21.4	972,782	7,849,589
2032	4,670,716	18.6	868,753	6,850,186	20.0	934,143	7,350,375	21.4	999,533	7,833,648

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	23.6%	\$863,494	\$ 8,247,352	24.2%	\$885,447	\$ 8,479,720	27.1%	\$991,554	\$ 9,425,566
2024	3,759,490	23.6	887,240	8,326,466	24.2	909,797	8,561,063	27.1	1,018,822	9,515,982
2025	3,862,876	23.6	911,639	8,397,417	24.2	934,816	8,634,013	27.1	1,046,839	9,597,069
2026	3,969,105	23.6	936,709	8,459,258	24.2	960,523	8,697,596	27.1	1,075,627	9,667,744
2027	4,078,255	23.6	962,468	8,510,963	24.2	986,938	8,750,758	27.1	1,105,207	9,726,836
2028	4,190,407	23.6	988,936	8,551,426	24.2	1,014,078	8,792,361	27.1	1,135,600	9,773,079
2029	4,305,643	23.6	1,016,132	8,579,450	24.2	1,041,966	8,821,174	27.1	1,166,829	9,805,106
2030	4,424,048	23.6	1,044,075	8,593,745	24.2	1,070,620	8,835,871	27.1	1,198,917	9,821,443
2031	4,545,709	23.6	1,072,787	8,592,918	24.2	1,100,062	8,835,021	27.1	1,231,887	9,820,498
2032	4,670,716	23.6	1,102,289	8,575,467	24.2	1,130,313	8,817,079	27.1	1,265,764	9,800,554

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	11.1%	\$406,135	\$ 4,712,781	14.7%	\$537,854	\$ 5,890,940	13.8%	\$504,924	\$ 5,642,168
2024	3,759,490	11.1	417,303	4,757,989	14.7	552,645	5,947,450	13.8	518,810	5,696,291
2025	3,862,876	11.1	428,779	4,798,533	14.7	567,843	5,998,129	13.8	533,077	5,744,830
2026	3,969,105	11.1	440,571	4,833,871	14.7	583,458	6,042,301	13.8	547,736	5,787,136
2027	4,078,255	11.1	452,686	4,863,417	14.7	599,503	6,079,233	13.8	562,799	5,822,508
2028	4,190,407	11.1	465,135	4,886,539	14.7	615,990	6,108,135	13.8	578,276	5,850,189
2029	4,305,643	11.1	477,926	4,902,553	14.7	632,930	6,128,152	13.8	594,179	5,869,361
2030	4,424,048	11.1	491,069	4,910,721	14.7	650,335	6,138,362	13.8	610,519	5,879,140
2031	4,545,709	11.1	504,574	4,910,248	14.7	668,219	6,137,771	13.8	627,308	5,878,574
2032	4,670,716	11.1	518,449	4,900,276	14.7	686,595	6,125,306	13.8	644,559	5,866,636

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	16.7%	\$611,031	\$ 6,588,084	18.1%	\$662,256	\$ 7,069,137	19.5%	\$713,480	\$ 7,533,917
2024	3,759,490	16.7	627,835	6,651,281	18.1	680,468	7,136,949	19.5	733,101	7,606,187
2025	3,862,876	16.7	645,100	6,707,958	18.1	699,181	7,197,764	19.5	753,261	7,671,001
2026	3,969,105	16.7	662,841	6,757,357	18.1	718,408	7,250,770	19.5	773,975	7,727,492
2027	4,078,255	16.7	681,069	6,798,660	18.1	738,164	7,295,088	19.5	795,260	7,774,724
2028	4,190,407	16.7	699,798	6,830,982	18.1	758,464	7,329,770	19.5	817,129	7,811,686
2029	4,305,643	16.7	719,042	6,853,368	18.1	779,321	7,353,790	19.5	839,600	7,837,286
2030	4,424,048	16.7	738,816	6,864,787	18.1	800,753	7,366,042	19.5	862,689	7,850,344
2031	4,545,709	16.7	759,133	6,864,126	18.1	822,773	7,365,333	19.5	886,413	7,849,589
2032	4,670,716	16.7	780,010	6,850,186	18.1	845,400	7,350,375	19.5	910,790	7,833,648

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	21.7%	\$793,975	\$ 8,247,352	22.3%	\$815,928	\$ 8,479,720	25.2%	\$922,035	\$ 9,425,566
2024	3,759,490	21.7	815,809	8,326,466	22.3	838,366	8,561,063	25.2	947,391	9,515,982
2025	3,862,876	21.7	838,244	8,397,417	22.3	861,421	8,634,013	25.2	973,445	9,597,069
2026	3,969,105	21.7	861,296	8,459,258	22.3	885,110	8,697,596	25.2	1,000,214	9,667,744
2027	4,078,255	21.7	884,981	8,510,963	22.3	909,451	8,750,758	25.2	1,027,720	9,726,836
2028	4,190,407	21.7	909,318	8,551,426	22.3	934,461	8,792,361	25.2	1,055,983	9,773,079
2029	4,305,643	21.7	934,325	8,579,450	22.3	960,158	8,821,174	25.2	1,085,022	9,805,106
2030	4,424,048	21.7	960,018	8,593,745	22.3	986,563	8,835,871	25.2	1,114,860	9,821,443
2031	4,545,709	21.7	986,419	8,592,918	22.3	1,013,693	8,835,021	25.2	1,145,519	9,820,498
2032	4,670,716	21.7	1,013,545	8,575,467	22.3	1,041,570	8,817,079	25.2	1,177,020	9,800,554

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - General

Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	9.2%	\$336,616	\$ 4,712,781	12.8%	\$468,335	\$ 5,890,940	11.9%	\$435,406	\$ 5,642,168
2024	3,759,490	9.2	345,873	4,757,989	12.8	481,215	5,947,450	11.9	447,379	5,696,291
2025	3,862,876	9.2	355,385	4,798,533	12.8	494,448	5,998,129	11.9	459,682	5,744,830
2026	3,969,105	9.2	365,158	4,833,871	12.8	508,045	6,042,301	11.9	472,323	5,787,136
2027	4,078,255	9.2	375,199	4,863,417	12.8	522,017	6,079,233	11.9	485,312	5,822,508
2028	4,190,407	9.2	385,517	4,886,539	12.8	536,372	6,108,135	11.9	498,658	5,850,189
2029	4,305,643	9.2	396,119	4,902,553	12.8	551,122	6,128,152	11.9	512,372	5,869,361
2030	4,424,048	9.2	407,012	4,910,721	12.8	566,278	6,138,362	11.9	526,462	5,879,140
2031	4,545,709	9.2	418,205	4,910,248	12.8	581,851	6,137,771	11.9	540,939	5,878,574
2032	4,670,716	9.2	429,706	4,900,276	12.8	597,852	6,125,306	11.9	555,815	5,866,636

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	14.8%	\$541,513	\$ 6,588,084	16.2%	\$592,737	\$ 7,069,137	17.6%	\$643,961	\$ 7,533,917
2024	3,759,490	14.8	556,405	6,651,281	16.2	609,037	7,136,949	17.6	661,670	7,606,187
2025	3,862,876	14.8	571,706	6,707,958	16.2	625,786	7,197,764	17.6	679,866	7,671,001
2026	3,969,105	14.8	587,428	6,757,357	16.2	642,995	7,250,770	17.6	698,562	7,727,492
2027	4,078,255	14.8	603,582	6,798,660	16.2	660,677	7,295,088	17.6	717,773	7,774,724
2028	4,190,407	14.8	620,180	6,830,982	16.2	678,846	7,329,770	17.6	737,512	7,811,686
2029	4,305,643	14.8	637,235	6,853,368	16.2	697,514	7,353,790	17.6	757,793	7,837,286
2030	4,424,048	14.8	654,759	6,864,787	16.2	716,696	7,366,042	17.6	778,632	7,850,344
2031	4,545,709	14.8	672,765	6,864,126	16.2	736,405	7,365,333	17.6	800,045	7,849,589
2032	4,670,716	14.8	691,266	6,850,186	16.2	756,656	7,350,375	17.6	822,046	7,833,648

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 3,658,871	19.8%	\$724,456	\$ 8,247,352	20.4%	\$746,410	\$ 8,479,720	23.3%	\$852,517	\$ 9,425,566
2024	3,759,490	19.8	744,379	8,326,466	20.4	766,936	8,561,063	23.3	875,961	9,515,982
2025	3,862,876	19.8	764,849	8,397,417	20.4	788,027	8,634,013	23.3	900,050	9,597,069
2026	3,969,105	19.8	785,883	8,459,258	20.4	809,697	8,697,596	23.3	924,801	9,667,744
2027	4,078,255	19.8	807,494	8,510,963	20.4	831,964	8,750,758	23.3	950,233	9,726,836
2028	4,190,407	19.8	829,701	8,551,426	20.4	854,843	8,792,361	23.3	976,365	9,773,079
2029	4,305,643	19.8	852,517	8,579,450	20.4	878,351	8,821,174	23.3	1,003,215	9,805,106
2030	4,424,048	19.8	875,962	8,593,745	20.4	902,506	8,835,871	23.3	1,030,803	9,821,443
2031	4,545,709	19.8	900,050	8,592,918	20.4	927,325	8,835,021	23.3	1,059,150	9,820,498
2032	4,670,716	19.8	924,802	8,575,467	20.4	952,826	8,817,079	23.3	1,088,277	9,800,554

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	16.6%	\$787,078	\$ 6,205,887	20.6%	\$976,736	\$ 7,757,332	20.6%	\$976,736	\$ 7,772,332
2024	4,871,824	16.6	808,723	6,265,418	20.6	1,003,596	7,831,745	20.6	1,003,596	7,846,889
2025	5,005,799	16.6	830,963	6,318,807	20.6	1,031,195	7,898,481	20.6	1,031,195	7,913,754
2026	5,143,458	16.6	853,814	6,365,340	20.6	1,059,552	7,956,647	20.6	1,059,552	7,972,033
2027	5,284,903	16.6	877,294	6,404,246	20.6	1,088,690	8,005,280	20.6	1,088,690	8,020,760
2028	5,430,238	16.6	901,420	6,434,693	20.6	1,118,629	8,043,338	20.6	1,118,629	8,058,892
2029	5,579,570	16.6	926,209	6,455,780	20.6	1,149,391	8,069,697	20.6	1,149,391	8,085,302
2030	5,733,008	16.6	951,679	6,466,536	20.6	1,181,000	8,083,142	20.6	1,181,000	8,098,773
2031	5,890,666	16.6	977,851	6,465,914	20.6	1,213,477	8,082,364	20.6	1,213,477	8,097,994
2032	6,052,659	16.6	1,004,741	6,452,783	20.6	1,246,848	8,065,950	20.6	1,246,848	8,081,548

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	23.5%	\$1,114,237	\$ 8,932,241	24.5%	\$1,161,652	\$ 9,308,783	26.4%	\$1,251,739	\$ 10,092,022
2024	4,871,824	23.5	1,144,879	9,017,925	24.5	1,193,597	9,398,079	26.4	1,286,162	10,188,831
2025	5,005,799	23.5	1,176,363	9,094,768	24.5	1,226,421	9,478,162	26.4	1,321,531	10,275,652
2026	5,143,458	23.5	1,208,713	9,161,744	24.5	1,260,147	9,547,961	26.4	1,357,873	10,351,324
2027	5,284,903	23.5	1,241,952	9,217,743	24.5	1,294,801	9,606,320	26.4	1,395,214	10,414,594
2028	5,430,238	23.5	1,276,106	9,261,566	24.5	1,330,408	9,651,990	26.4	1,433,583	10,464,107
2029	5,579,570	23.5	1,311,199	9,291,917	24.5	1,366,995	9,683,620	26.4	1,473,006	10,498,399
2030	5,733,008	23.5	1,347,257	9,307,399	24.5	1,404,587	9,699,754	26.4	1,513,514	10,515,891
2031	5,890,666	23.5	1,384,307	9,306,503	24.5	1,443,213	9,698,821	26.4	1,555,136	10,514,879
2032	6,052,659	23.5	1,422,375	9,287,603	24.5	1,482,901	9,679,124	26.4	1,597,902	10,493,525

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	28.4%	\$1,346,568	\$ 10,860,338	29.4%	\$1,393,982	\$ 11,251,977	32.2%	\$1,526,742	\$ 12,411,671
2024	4,871,824	28.4	1,383,598	10,964,518	29.4	1,432,316	11,359,913	32.2	1,568,727	12,530,732
2025	5,005,799	28.4	1,421,647	11,057,949	29.4	1,471,705	11,456,713	32.2	1,611,867	12,637,508
2026	5,143,458	28.4	1,460,742	11,139,382	29.4	1,512,177	11,541,083	32.2	1,656,193	12,730,574
2027	5,284,903	28.4	1,500,912	11,207,469	29.4	1,553,761	11,611,625	32.2	1,701,739	12,808,386
2028	5,430,238	28.4	1,542,188	11,260,751	29.4	1,596,490	11,666,829	32.2	1,748,537	12,869,279
2029	5,579,570	28.4	1,584,598	11,297,653	29.4	1,640,394	11,705,062	32.2	1,796,622	12,911,453
2030	5,733,008	28.4	1,628,174	11,316,476	29.4	1,685,504	11,724,564	32.2	1,846,029	12,932,965
2031	5,890,666	28.4	1,672,949	11,315,387	29.4	1,731,856	11,723,436	32.2	1,896,794	12,931,720
2032	6,052,659	28.4	1,718,955	11,292,407	29.4	1,779,482	11,699,628	32.2	1,948,956	12,905,458

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	14.7%	\$696,991	\$ 6,205,887	18.7%	\$886,648	\$ 7,757,332	18.7%	\$886,648	\$ 7,772,332
2024	4,871,824	14.7	716,158	6,265,418	18.7	911,031	7,831,745	18.7	911,031	7,846,889
2025	5,005,799	14.7	735,852	6,318,807	18.7	936,084	7,898,481	18.7	936,084	7,913,754
2026	5,143,458	14.7	756,088	6,365,340	18.7	961,827	7,956,647	18.7	961,827	7,972,033
2027	5,284,903	14.7	776,881	6,404,246	18.7	988,277	8,005,280	18.7	988,277	8,020,760
2028	5,430,238	14.7	798,245	6,434,693	18.7	1,015,455	8,043,338	18.7	1,015,455	8,058,892
2029	5,579,570	14.7	820,197	6,455,780	18.7	1,043,380	8,069,697	18.7	1,043,380	8,085,302
2030	5,733,008	14.7	842,752	6,466,536	18.7	1,072,072	8,083,142	18.7	1,072,072	8,098,773
2031	5,890,666	14.7	865,928	6,465,914	18.7	1,101,555	8,082,364	18.7	1,101,555	8,097,994
2032	6,052,659	14.7	889,741	6,452,783	18.7	1,131,847	8,065,950	18.7	1,131,847	8,081,548

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	21.6%	\$1,024,150	\$ 8,932,241	22.6%	\$1,071,564	\$ 9,308,783	24.5%	\$1,161,652	\$ 10,092,022
2024	4,871,824	21.6	1,052,314	9,017,925	22.6	1,101,032	9,398,079	24.5	1,193,597	10,188,831
2025	5,005,799	21.6	1,081,253	9,094,768	22.6	1,131,311	9,478,162	24.5	1,226,421	10,275,652
2026	5,143,458	21.6	1,110,987	9,161,744	22.6	1,162,422	9,547,961	24.5	1,260,147	10,351,324
2027	5,284,903	21.6	1,141,539	9,217,743	22.6	1,194,388	9,606,320	24.5	1,294,801	10,414,594
2028	5,430,238	21.6	1,172,931	9,261,566	22.6	1,227,234	9,651,990	24.5	1,330,408	10,464,107
2029	5,579,570	21.6	1,205,187	9,291,917	22.6	1,260,983	9,683,620	24.5	1,366,995	10,498,399
2030	5,733,008	21.6	1,238,330	9,307,399	22.6	1,295,660	9,699,754	24.5	1,404,587	10,515,891
2031	5,890,666	21.6	1,272,384	9,306,503	22.6	1,331,291	9,698,821	24.5	1,443,213	10,514,879
2032	6,052,659	21.6	1,307,374	9,287,603	22.6	1,367,901	9,679,124	24.5	1,482,901	10,493,525

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	26.5%	\$1,256,480	\$ 10,860,338	27.5%	\$1,303,895	\$ 11,251,977	30.3%	\$1,436,655	\$ 12,411,671
2024	4,871,824	26.5	1,291,033	10,964,518	27.5	1,339,752	11,359,913	30.3	1,476,163	12,530,732
2025	5,005,799	26.5	1,326,537	11,057,949	27.5	1,376,595	11,456,713	30.3	1,516,757	12,637,508
2026	5,143,458	26.5	1,363,016	11,139,382	27.5	1,414,451	11,541,083	30.3	1,558,468	12,730,574
2027	5,284,903	26.5	1,400,499	11,207,469	27.5	1,453,348	11,611,625	30.3	1,601,326	12,808,386
2028	5,430,238	26.5	1,439,013	11,260,751	27.5	1,493,315	11,666,829	30.3	1,645,362	12,869,279
2029	5,579,570	26.5	1,478,586	11,297,653	27.5	1,534,382	11,705,062	30.3	1,690,610	12,911,453
2030	5,733,008	26.5	1,519,247	11,316,476	27.5	1,576,577	11,724,564	30.3	1,737,101	12,932,965
2031	5,890,666	26.5	1,561,026	11,315,387	27.5	1,619,933	11,723,436	30.3	1,784,872	12,931,720
2032	6,052,659	26.5	1,603,955	11,292,407	27.5	1,664,481	11,699,628	30.3	1,833,956	12,905,458

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	12.8%	\$606,904	\$ 6,205,887	16.8%	\$796,561	\$ 7,757,332	16.8%	\$796,561	\$ 7,772,332
2024	4,871,824	12.8	623,593	6,265,418	16.8	818,466	7,831,745	16.8	818,466	7,846,889
2025	5,005,799	12.8	640,742	6,318,807	16.8	840,974	7,898,481	16.8	840,974	7,913,754
2026	5,143,458	12.8	658,363	6,365,340	16.8	864,101	7,956,647	16.8	864,101	7,972,033
2027	5,284,903	12.8	676,468	6,404,246	16.8	887,864	8,005,280	16.8	887,864	8,020,760
2028	5,430,238	12.8	695,070	6,434,693	16.8	912,280	8,043,338	16.8	912,280	8,058,892
2029	5,579,570	12.8	714,185	6,455,780	16.8	937,368	8,069,697	16.8	937,368	8,085,302
2030	5,733,008	12.8	733,825	6,466,536	16.8	963,145	8,083,142	16.8	963,145	8,098,773
2031	5,890,666	12.8	754,005	6,465,914	16.8	989,632	8,082,364	16.8	989,632	8,097,994
2032	6,052,659	12.8	774,740	6,452,783	16.8	1,016,847	8,065,950	16.8	1,016,847	8,081,548

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	19.7%	\$934,063	\$ 8,932,241	20.7%	\$981,477	\$ 9,308,783	22.6%	\$1,071,564	\$ 10,092,022
2024	4,871,824	19.7	959,749	9,017,925	20.7	1,008,468	9,398,079	22.6	1,101,032	10,188,831
2025	5,005,799	19.7	986,142	9,094,768	20.7	1,036,200	9,478,162	22.6	1,131,311	10,275,652
2026	5,143,458	19.7	1,013,261	9,161,744	20.7	1,064,696	9,547,961	22.6	1,162,422	10,351,324
2027	5,284,903	19.7	1,041,126	9,217,743	20.7	1,093,975	9,606,320	22.6	1,194,388	10,414,594
2028	5,430,238	19.7	1,069,757	9,261,566	20.7	1,124,059	9,651,990	22.6	1,227,234	10,464,107
2029	5,579,570	19.7	1,099,175	9,291,917	20.7	1,154,971	9,683,620	22.6	1,260,983	10,498,399
2030	5,733,008	19.7	1,129,403	9,307,399	20.7	1,186,733	9,699,754	22.6	1,295,660	10,515,891
2031	5,890,666	19.7	1,160,461	9,306,503	20.7	1,219,368	9,698,821	22.6	1,331,291	10,514,879
2032	6,052,659	19.7	1,192,374	9,287,603	20.7	1,252,900	9,679,124	22.6	1,367,901	10,493,525

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	24.6%	\$1,166,393	\$ 10,860,338	25.6%	\$1,213,807	\$ 11,251,977	28.4%	\$1,346,568	\$ 12,411,671
2024	4,871,824	24.6	1,198,469	10,964,518	25.6	1,247,187	11,359,913	28.4	1,383,598	12,530,732
2025	5,005,799	24.6	1,231,427	11,057,949	25.6	1,281,485	11,456,713	28.4	1,421,647	12,637,508
2026	5,143,458	24.6	1,265,291	11,139,382	25.6	1,316,725	11,541,083	28.4	1,460,742	12,730,574
2027	5,284,903	24.6	1,300,086	11,207,469	25.6	1,352,935	11,611,625	28.4	1,500,912	12,808,386
2028	5,430,238	24.6	1,335,839	11,260,751	25.6	1,390,141	11,666,829	28.4	1,542,188	12,869,279
2029	5,579,570	24.6	1,372,574	11,297,653	25.6	1,428,370	11,705,062	28.4	1,584,598	12,911,453
2030	5,733,008	24.6	1,410,320	11,316,476	25.6	1,467,650	11,724,564	28.4	1,628,174	12,932,965
2031	5,890,666	24.6	1,449,104	11,315,387	25.6	1,508,010	11,723,436	28.4	1,672,949	12,931,720
2032	6,052,659	24.6	1,488,954	11,292,407	25.6	1,549,481	11,699,628	28.4	1,718,955	12,905,458

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	10.9%	\$516,816	\$ 6,205,887	14.9%	\$706,474	\$ 7,757,332	14.9%	\$706,474	\$ 7,772,332
2024	4,871,824	10.9	531,029	6,265,418	14.9	725,902	7,831,745	14.9	725,902	7,846,889
2025	5,005,799	10.9	545,632	6,318,807	14.9	745,864	7,898,481	14.9	745,864	7,913,754
2026	5,143,458	10.9	560,637	6,365,340	14.9	766,375	7,956,647	14.9	766,375	7,972,033
2027	5,284,903	10.9	576,054	6,404,246	14.9	787,451	8,005,280	14.9	787,451	8,020,760
2028	5,430,238	10.9	591,896	6,434,693	14.9	809,105	8,043,338	14.9	809,105	8,058,892
2029	5,579,570	10.9	608,173	6,455,780	14.9	831,356	8,069,697	14.9	831,356	8,085,302
2030	5,733,008	10.9	624,898	6,466,536	14.9	854,218	8,083,142	14.9	854,218	8,098,773
2031	5,890,666	10.9	642,083	6,465,914	14.9	877,709	8,082,364	14.9	877,709	8,097,994
2032	6,052,659	10.9	659,740	6,452,783	14.9	901,846	8,065,950	14.9	901,846	8,081,548

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	17.8%	\$843,975	\$ 8,932,241	18.8%	\$891,390	\$ 9,308,783	20.7%	\$981,477	\$ 10,092,022
2024	4,871,824	17.8	867,185	9,017,925	18.8	915,903	9,398,079	20.7	1,008,468	10,188,831
2025	5,005,799	17.8	891,032	9,094,768	18.8	941,090	9,478,162	20.7	1,036,200	10,275,652
2026	5,143,458	17.8	915,536	9,161,744	18.8	966,970	9,547,961	20.7	1,064,696	10,351,324
2027	5,284,903	17.8	940,713	9,217,743	18.8	993,562	9,606,320	20.7	1,093,975	10,414,594
2028	5,430,238	17.8	966,582	9,261,566	18.8	1,020,885	9,651,990	20.7	1,124,059	10,464,107
2029	5,579,570	17.8	993,163	9,291,917	18.8	1,048,959	9,683,620	20.7	1,154,971	10,498,399
2030	5,733,008	17.8	1,020,475	9,307,399	18.8	1,077,806	9,699,754	20.7	1,186,733	10,515,891
2031	5,890,666	17.8	1,048,539	9,306,503	18.8	1,107,445	9,698,821	20.7	1,219,368	10,514,879
2032	6,052,659	17.8	1,077,373	9,287,603	18.8	1,137,900	9,679,124	20.7	1,252,900	10,493,525

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	22.7%	\$1,076,306	\$ 10,860,338	23.7%	\$1,123,720	\$ 11,251,977	26.5%	\$1,256,480	\$ 12,411,671
2024	4,871,824	22.7	1,105,904	10,964,518	23.7	1,154,622	11,359,913	26.5	1,291,033	12,530,732
2025	5,005,799	22.7	1,136,316	11,057,949	23.7	1,186,374	11,456,713	26.5	1,326,537	12,637,508
2026	5,143,458	22.7	1,167,565	11,139,382	23.7	1,219,000	11,541,083	26.5	1,363,016	12,730,574
2027	5,284,903	22.7	1,199,673	11,207,469	23.7	1,252,522	11,611,625	26.5	1,400,499	12,808,386
2028	5,430,238	22.7	1,232,664	11,260,751	23.7	1,286,966	11,666,829	26.5	1,439,013	12,869,279
2029	5,579,570	22.7	1,266,562	11,297,653	23.7	1,322,358	11,705,062	26.5	1,478,586	12,911,453
2030	5,733,008	22.7	1,301,393	11,316,476	23.7	1,358,723	11,724,564	26.5	1,519,247	12,932,965
2031	5,890,666	22.7	1,337,181	11,315,387	23.7	1,396,088	11,723,436	26.5	1,561,026	12,931,720
2032	6,052,659	22.7	1,373,954	11,292,407	23.7	1,434,480	11,699,628	26.5	1,603,955	12,905,458

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	17.2%	\$815,527	\$ 6,397,298	21.1%	\$1,000,443	\$ 7,996,637	21.3%	\$1,009,926	\$ 8,015,373
2024	4,871,824	17.2	837,954	6,458,665	21.1	1,027,955	8,073,346	21.3	1,037,699	8,092,262
2025	5,005,799	17.2	860,997	6,513,700	21.1	1,056,224	8,142,140	21.3	1,066,235	8,161,218
2026	5,143,458	17.2	884,675	6,561,668	21.1	1,085,270	8,202,101	21.3	1,095,557	8,221,319
2027	5,284,903	17.2	909,003	6,601,774	21.1	1,115,115	8,252,234	21.3	1,125,684	8,271,570
2028	5,430,238	17.2	934,001	6,633,160	21.1	1,145,780	8,291,467	21.3	1,156,641	8,310,894
2029	5,579,570	17.2	959,686	6,654,897	21.1	1,177,289	8,318,639	21.3	1,188,448	8,338,129
2030	5,733,008	17.2	986,077	6,665,985	21.1	1,209,665	8,332,499	21.3	1,221,131	8,352,021
2031	5,890,666	17.2	1,013,195	6,665,344	21.1	1,242,931	8,331,697	21.3	1,254,712	8,351,217
2032	6,052,659	17.2	1,041,057	6,651,808	21.1	1,277,111	8,314,777	21.3	1,289,216	8,334,257

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	24.2%	\$1,147,427	\$ 9,210,183	25.2%	\$1,194,842	\$ 9,595,888	27.2%	\$1,289,670	\$ 10,404,950
2024	4,871,824	24.2	1,178,981	9,298,533	25.2	1,227,700	9,687,938	27.2	1,325,136	10,504,761
2025	5,005,799	24.2	1,211,403	9,377,767	25.2	1,261,461	9,770,491	27.2	1,361,577	10,594,274
2026	5,143,458	24.2	1,244,717	9,446,827	25.2	1,296,151	9,842,443	27.2	1,399,021	10,672,293
2027	5,284,903	24.2	1,278,947	9,504,568	25.2	1,331,796	9,902,602	27.2	1,437,494	10,737,525
2028	5,430,238	24.2	1,314,118	9,549,754	25.2	1,368,420	9,949,681	27.2	1,477,025	10,788,573
2029	5,579,570	24.2	1,350,256	9,581,049	25.2	1,406,052	9,982,287	27.2	1,517,643	10,823,928
2030	5,733,008	24.2	1,387,388	9,597,012	25.2	1,444,718	9,998,919	27.2	1,559,378	10,841,962
2031	5,890,666	24.2	1,425,541	9,596,088	25.2	1,484,448	9,997,957	27.2	1,602,261	10,840,919
2032	6,052,659	24.2	1,464,743	9,576,600	25.2	1,525,270	9,977,653	27.2	1,646,323	10,818,903

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	29.2%	\$1,384,499	\$ 11,195,188	30.2%	\$1,431,913	\$ 11,599,705	33.2%	\$1,574,156	\$ 12,794,513
2024	4,871,824	29.2	1,422,573	11,302,580	30.2	1,471,291	11,710,977	33.2	1,617,446	12,917,246
2025	5,005,799	29.2	1,461,693	11,398,891	30.2	1,511,751	11,810,768	33.2	1,661,925	13,027,316
2026	5,143,458	29.2	1,501,890	11,482,835	30.2	1,553,324	11,897,745	33.2	1,707,628	13,123,252
2027	5,284,903	29.2	1,543,192	11,553,021	30.2	1,596,041	11,970,467	33.2	1,754,588	13,203,464
2028	5,430,238	29.2	1,585,629	11,607,946	30.2	1,639,932	12,027,377	33.2	1,802,839	13,266,235
2029	5,579,570	29.2	1,629,234	11,645,986	30.2	1,685,030	12,066,792	33.2	1,852,417	13,309,710
2030	5,733,008	29.2	1,674,038	11,665,390	30.2	1,731,368	12,086,897	33.2	1,903,359	13,331,886
2031	5,890,666	29.2	1,720,074	11,664,267	30.2	1,778,981	12,085,734	33.2	1,955,701	13,330,603
2032	6,052,659	29.2	1,767,376	11,640,579	30.2	1,827,903	12,061,190	33.2	2,009,483	13,303,531

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	15.3%	\$725,440	\$ 6,397,298	19.2%	\$910,356	\$ 7,996,637	19.4%	\$919,838	\$ 8,015,373
2024	4,871,824	15.3	745,389	6,458,665	19.2	935,390	8,073,346	19.4	945,134	8,092,262
2025	5,005,799	15.3	765,887	6,513,700	19.2	961,113	8,142,140	19.4	971,125	8,161,218
2026	5,143,458	15.3	786,949	6,561,668	19.2	987,544	8,202,101	19.4	997,831	8,221,319
2027	5,284,903	15.3	808,590	6,601,774	19.2	1,014,701	8,252,234	19.4	1,025,271	8,271,570
2028	5,430,238	15.3	830,826	6,633,160	19.2	1,042,606	8,291,467	19.4	1,053,466	8,310,894
2029	5,579,570	15.3	853,674	6,654,897	19.2	1,071,277	8,318,639	19.4	1,082,437	8,338,129
2030	5,733,008	15.3	877,150	6,665,985	19.2	1,100,738	8,332,499	19.4	1,112,204	8,352,021
2031	5,890,666	15.3	901,272	6,665,344	19.2	1,131,008	8,331,697	19.4	1,142,789	8,351,217
2032	6,052,659	15.3	926,057	6,651,808	19.2	1,162,111	8,314,777	19.4	1,174,216	8,334,257

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	22.3%	\$1,057,340	\$ 9,210,183	23.3%	\$1,104,754	\$ 9,595,888	25.3%	\$1,199,583	\$ 10,404,950
2024	4,871,824	22.3	1,086,417	9,298,533	23.3	1,135,135	9,687,938	25.3	1,232,571	10,504,761
2025	5,005,799	22.3	1,116,293	9,377,767	23.3	1,166,351	9,770,491	25.3	1,266,467	10,594,274
2026	5,143,458	22.3	1,146,991	9,446,827	23.3	1,198,426	9,842,443	25.3	1,301,295	10,672,293
2027	5,284,903	22.3	1,178,533	9,504,568	23.3	1,231,382	9,902,602	25.3	1,337,080	10,737,525
2028	5,430,238	22.3	1,210,943	9,549,754	23.3	1,265,245	9,949,681	25.3	1,373,850	10,788,573
2029	5,579,570	22.3	1,244,244	9,581,049	23.3	1,300,040	9,982,287	25.3	1,411,631	10,823,928
2030	5,733,008	22.3	1,278,461	9,597,012	23.3	1,335,791	9,998,919	25.3	1,450,451	10,841,962
2031	5,890,666	22.3	1,313,619	9,596,088	23.3	1,372,525	9,997,957	25.3	1,490,338	10,840,919
2032	6,052,659	22.3	1,349,743	9,576,600	23.3	1,410,270	9,977,653	25.3	1,531,323	10,818,903

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	27.3%	\$1,294,412	\$ 11,195,188	28.3%	\$1,341,826	\$ 11,599,705	31.3%	\$1,484,069	\$ 12,794,513
2024	4,871,824	27.3	1,330,008	11,302,580	28.3	1,378,726	11,710,977	31.3	1,524,881	12,917,246
2025	5,005,799	27.3	1,366,583	11,398,891	28.3	1,416,641	11,810,768	31.3	1,566,815	13,027,316
2026	5,143,458	27.3	1,404,164	11,482,835	28.3	1,455,599	11,897,745	31.3	1,609,902	13,123,252
2027	5,284,903	27.3	1,442,779	11,553,021	28.3	1,495,628	11,970,467	31.3	1,654,175	13,203,464
2028	5,430,238	27.3	1,482,455	11,607,946	28.3	1,536,757	12,027,377	31.3	1,699,664	13,266,235
2029	5,579,570	27.3	1,523,223	11,645,986	28.3	1,579,018	12,066,792	31.3	1,746,405	13,309,710
2030	5,733,008	27.3	1,565,111	11,665,390	28.3	1,622,441	12,086,897	31.3	1,794,432	13,331,886
2031	5,890,666	27.3	1,608,152	11,664,267	28.3	1,667,058	12,085,734	31.3	1,843,778	13,330,603
2032	6,052,659	27.3	1,652,376	11,640,579	28.3	1,712,902	12,061,190	31.3	1,894,482	13,303,531

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	13.4%	\$635,352	\$ 6,397,298	17.3%	\$820,268	\$ 7,996,637	17.5%	\$829,751	\$ 8,015,373
2024	4,871,824	13.4	652,824	6,458,665	17.3	842,826	8,073,346	17.5	852,569	8,092,262
2025	5,005,799	13.4	670,777	6,513,700	17.3	866,003	8,142,140	17.5	876,015	8,161,218
2026	5,143,458	13.4	689,223	6,561,668	17.3	889,818	8,202,101	17.5	900,105	8,221,319
2027	5,284,903	13.4	708,177	6,601,774	17.3	914,288	8,252,234	17.5	924,858	8,271,570
2028	5,430,238	13.4	727,652	6,633,160	17.3	939,431	8,291,467	17.5	950,292	8,310,894
2029	5,579,570	13.4	747,662	6,654,897	17.3	965,266	8,318,639	17.5	976,425	8,338,129
2030	5,733,008	13.4	768,223	6,665,985	17.3	991,810	8,332,499	17.5	1,003,276	8,352,021
2031	5,890,666	13.4	789,349	6,665,344	17.3	1,019,085	8,331,697	17.5	1,030,867	8,351,217
2032	6,052,659	13.4	811,056	6,651,808	17.3	1,047,110	8,314,777	17.5	1,059,215	8,334,257

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	20.4%	\$967,253	\$ 9,210,183	21.4%	\$1,014,667	\$ 9,595,888	23.4%	\$1,109,496	\$ 10,404,950
2024	4,871,824	20.4	993,852	9,298,533	21.4	1,042,570	9,687,938	23.4	1,140,007	10,504,761
2025	5,005,799	20.4	1,021,183	9,377,767	21.4	1,071,241	9,770,491	23.4	1,171,357	10,594,274
2026	5,143,458	20.4	1,049,265	9,446,827	21.4	1,100,700	9,842,443	23.4	1,203,569	10,672,293
2027	5,284,903	20.4	1,078,120	9,504,568	21.4	1,130,969	9,902,602	23.4	1,236,667	10,737,525
2028	5,430,238	20.4	1,107,769	9,549,754	21.4	1,162,071	9,949,681	23.4	1,270,676	10,788,573
2029	5,579,570	20.4	1,138,232	9,581,049	21.4	1,194,028	9,982,287	23.4	1,305,619	10,823,928
2030	5,733,008	20.4	1,169,534	9,597,012	21.4	1,226,864	9,998,919	23.4	1,341,524	10,841,962
2031	5,890,666	20.4	1,201,696	9,596,088	21.4	1,260,603	9,997,957	23.4	1,378,416	10,840,919
2032	6,052,659	20.4	1,234,742	9,576,600	21.4	1,295,269	9,977,653	23.4	1,416,322	10,818,903

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	25.4%	\$1,204,324	\$ 11,195,188	26.4%	\$1,251,739	\$ 11,599,705	29.4%	\$1,393,982	\$ 12,794,513
2024	4,871,824	25.4	1,237,443	11,302,580	26.4	1,286,162	11,710,977	29.4	1,432,316	12,917,246
2025	5,005,799	25.4	1,271,473	11,398,891	26.4	1,321,531	11,810,768	29.4	1,471,705	13,027,316
2026	5,143,458	25.4	1,306,438	11,482,835	26.4	1,357,873	11,897,745	29.4	1,512,177	13,123,252
2027	5,284,903	25.4	1,342,365	11,553,021	26.4	1,395,214	11,970,467	29.4	1,553,761	13,203,464
2028	5,430,238	25.4	1,379,280	11,607,946	26.4	1,433,583	12,027,377	29.4	1,596,490	13,266,235
2029	5,579,570	25.4	1,417,211	11,645,986	26.4	1,473,006	12,066,792	29.4	1,640,394	13,309,710
2030	5,733,008	25.4	1,456,184	11,665,390	26.4	1,513,514	12,086,897	29.4	1,685,504	13,331,886
2031	5,890,666	25.4	1,496,229	11,664,267	26.4	1,555,136	12,085,734	29.4	1,731,856	13,330,603
2032	6,052,659	25.4	1,537,375	11,640,579	26.4	1,597,902	12,061,190	29.4	1,779,482	13,303,531

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	11.5%	\$545,265	\$ 6,397,298	15.4%	\$730,181	\$ 7,996,637	15.6%	\$739,664	\$ 8,015,373
2024	4,871,824	11.5	560,260	6,458,665	15.4	750,261	8,073,346	15.6	760,005	8,092,262
2025	5,005,799	11.5	575,667	6,513,700	15.4	770,893	8,142,140	15.6	780,905	8,161,218
2026	5,143,458	11.5	591,498	6,561,668	15.4	792,093	8,202,101	15.6	802,379	8,221,319
2027	5,284,903	11.5	607,764	6,601,774	15.4	813,875	8,252,234	15.6	824,445	8,271,570
2028	5,430,238	11.5	624,477	6,633,160	15.4	836,257	8,291,467	15.6	847,117	8,310,894
2029	5,579,570	11.5	641,651	6,654,897	15.4	859,254	8,318,639	15.6	870,413	8,338,129
2030	5,733,008	11.5	659,296	6,665,985	15.4	882,883	8,332,499	15.6	894,349	8,352,021
2031	5,890,666	11.5	677,427	6,665,344	15.4	907,163	8,331,697	15.6	918,944	8,351,217
2032	6,052,659	11.5	696,056	6,651,808	15.4	932,109	8,314,777	15.6	944,215	8,334,257

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	18.5%	\$877,165	\$ 9,210,183	19.5%	\$924,580	\$ 9,595,888	21.5%	\$1,019,409	\$ 10,404,950
2024	4,871,824	18.5	901,287	9,298,533	19.5	950,006	9,687,938	21.5	1,047,442	10,504,761
2025	5,005,799	18.5	926,073	9,377,767	19.5	976,131	9,770,491	21.5	1,076,247	10,594,274
2026	5,143,458	18.5	951,540	9,446,827	19.5	1,002,974	9,842,443	21.5	1,105,843	10,672,293
2027	5,284,903	18.5	977,707	9,504,568	19.5	1,030,556	9,902,602	21.5	1,136,254	10,737,525
2028	5,430,238	18.5	1,004,594	9,549,754	19.5	1,058,896	9,949,681	21.5	1,167,501	10,788,573
2029	5,579,570	18.5	1,032,220	9,581,049	19.5	1,088,016	9,982,287	21.5	1,199,608	10,823,928
2030	5,733,008	18.5	1,060,606	9,597,012	19.5	1,117,937	9,998,919	21.5	1,232,597	10,841,962
2031	5,890,666	18.5	1,089,773	9,596,088	19.5	1,148,680	9,997,957	21.5	1,266,493	10,840,919
2032	6,052,659	18.5	1,119,742	9,576,600	19.5	1,180,269	9,977,653	21.5	1,301,322	10,818,903

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	23.5%	\$1,114,237	\$ 11,195,188	24.5%	\$1,161,652	\$ 11,599,705	27.5%	\$1,303,895	\$ 12,794,513
2024	4,871,824	23.5	1,144,879	11,302,580	24.5	1,193,597	11,710,977	27.5	1,339,752	12,917,246
2025	5,005,799	23.5	1,176,363	11,398,891	24.5	1,226,421	11,810,768	27.5	1,376,595	13,027,316
2026	5,143,458	23.5	1,208,713	11,482,835	24.5	1,260,147	11,897,745	27.5	1,414,451	13,123,252
2027	5,284,903	23.5	1,241,952	11,553,021	24.5	1,294,801	11,970,467	27.5	1,453,348	13,203,464
2028	5,430,238	23.5	1,276,106	11,607,946	24.5	1,330,408	12,027,377	27.5	1,493,315	13,266,235
2029	5,579,570	23.5	1,311,199	11,645,986	24.5	1,366,995	12,066,792	27.5	1,534,382	13,309,710
2030	5,733,008	23.5	1,347,257	11,665,390	24.5	1,404,587	12,086,897	27.5	1,576,577	13,331,886
2031	5,890,666	23.5	1,384,307	11,664,267	24.5	1,443,213	12,085,734	27.5	1,619,933	13,330,603
2032	6,052,659	23.5	1,422,375	11,640,579	24.5	1,482,901	12,061,190	27.5	1,664,481	13,303,531

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	17.0%	\$806,044	\$ 6,360,352	21.0%	\$995,701	\$ 7,950,472	21.4%	\$1,014,667	\$ 8,152,634
2024	4,871,824	17.0	828,210	6,421,365	21.0	1,023,083	8,026,738	21.4	1,042,570	8,230,839
2025	5,005,799	17.0	850,986	6,476,083	21.0	1,051,218	8,095,135	21.4	1,071,241	8,300,975
2026	5,143,458	17.0	874,388	6,523,774	21.0	1,080,126	8,154,750	21.4	1,100,700	8,362,105
2027	5,284,903	17.0	898,434	6,563,649	21.0	1,109,830	8,204,594	21.4	1,130,969	8,413,216
2028	5,430,238	17.0	923,140	6,594,854	21.0	1,140,350	8,243,600	21.4	1,162,071	8,453,214
2029	5,579,570	17.0	948,527	6,616,466	21.0	1,171,710	8,270,615	21.4	1,194,028	8,480,916
2030	5,733,008	17.0	974,611	6,627,490	21.0	1,203,932	8,284,395	21.4	1,226,864	8,495,046
2031	5,890,666	17.0	1,001,413	6,626,852	21.0	1,237,040	8,283,598	21.4	1,260,603	8,494,229
2032	6,052,659	17.0	1,028,952	6,613,394	21.0	1,271,058	8,266,775	21.4	1,295,269	8,476,979

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	24.2%	\$1,147,427	\$ 9,294,672	24.9%	\$1,180,617	\$ 9,540,551	27.2%	\$1,289,670	\$ 10,436,706
2024	4,871,824	24.2	1,178,981	9,383,833	24.9	1,213,084	9,632,070	27.2	1,325,136	10,536,822
2025	5,005,799	24.2	1,211,403	9,463,794	24.9	1,246,444	9,714,146	27.2	1,361,577	10,626,608
2026	5,143,458	24.2	1,244,717	9,533,488	24.9	1,280,721	9,785,683	27.2	1,399,021	10,704,865
2027	5,284,903	24.2	1,278,947	9,591,759	24.9	1,315,941	9,845,495	27.2	1,437,494	10,770,296
2028	5,430,238	24.2	1,314,118	9,637,360	24.9	1,352,129	9,892,302	27.2	1,477,025	10,821,500
2029	5,579,570	24.2	1,350,256	9,668,942	24.9	1,389,313	9,924,720	27.2	1,517,643	10,856,963
2030	5,733,008	24.2	1,387,388	9,685,052	24.9	1,427,519	9,941,256	27.2	1,559,378	10,875,052
2031	5,890,666	24.2	1,425,541	9,684,120	24.9	1,466,776	9,940,299	27.2	1,602,261	10,874,006
2032	6,052,659	24.2	1,464,743	9,664,453	24.9	1,507,112	9,920,112	27.2	1,646,323	10,851,923

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	28.9%	\$1,370,275	\$ 11,130,678	30.0%	\$1,422,431	\$ 11,578,757	32.9%	\$1,559,932	\$ 12,720,726
2024	4,871,824	28.9	1,407,957	11,237,451	30.0	1,461,547	11,689,828	32.9	1,602,830	12,842,752
2025	5,005,799	28.9	1,446,676	11,333,207	30.0	1,501,740	11,789,439	32.9	1,646,908	12,952,187
2026	5,143,458	28.9	1,486,459	11,416,667	30.0	1,543,037	11,876,259	32.9	1,692,198	13,047,570
2027	5,284,903	28.9	1,527,337	11,486,448	30.0	1,585,471	11,948,849	32.9	1,738,733	13,127,320
2028	5,430,238	28.9	1,569,339	11,541,057	30.0	1,629,071	12,005,656	32.9	1,786,548	13,189,729
2029	5,579,570	28.9	1,612,496	11,578,878	30.0	1,673,871	12,044,999	32.9	1,835,679	13,232,953
2030	5,733,008	28.9	1,656,839	11,598,170	30.0	1,719,902	12,065,068	32.9	1,886,160	13,255,001
2031	5,890,666	28.9	1,702,402	11,597,054	30.0	1,767,200	12,063,907	32.9	1,938,029	13,253,725
2032	6,052,659	28.9	1,749,218	11,573,502	30.0	1,815,798	12,039,407	32.9	1,991,325	13,226,809

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	15.1%	\$715,957	\$ 6,360,352	19.1%	\$905,614	\$ 7,950,472	19.5%	\$924,580	\$ 8,152,634
2024	4,871,824	15.1	735,645	6,421,365	19.1	930,518	8,026,738	19.5	950,006	8,230,839
2025	5,005,799	15.1	755,876	6,476,083	19.1	956,108	8,095,135	19.5	976,131	8,300,975
2026	5,143,458	15.1	776,662	6,523,774	19.1	982,400	8,154,750	19.5	1,002,974	8,362,105
2027	5,284,903	15.1	798,020	6,563,649	19.1	1,009,416	8,204,594	19.5	1,030,556	8,413,216
2028	5,430,238	15.1	819,966	6,594,854	19.1	1,037,175	8,243,600	19.5	1,058,896	8,453,214
2029	5,579,570	15.1	842,515	6,616,466	19.1	1,065,698	8,270,615	19.5	1,088,016	8,480,916
2030	5,733,008	15.1	865,684	6,627,490	19.1	1,095,005	8,284,395	19.5	1,117,937	8,495,046
2031	5,890,666	15.1	889,491	6,626,852	19.1	1,125,117	8,283,598	19.5	1,148,680	8,494,229
2032	6,052,659	15.1	913,952	6,613,394	19.1	1,156,058	8,266,775	19.5	1,180,269	8,476,979

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	22.3%	\$1,057,340	\$ 9,294,672	23.0%	\$1,090,530	\$ 9,540,551	25.3%	\$1,199,583	\$ 10,436,706
2024	4,871,824	22.3	1,086,417	9,383,833	23.0	1,120,520	9,632,070	25.3	1,232,571	10,536,822
2025	5,005,799	22.3	1,116,293	9,463,794	23.0	1,151,334	9,714,146	25.3	1,266,467	10,626,608
2026	5,143,458	22.3	1,146,991	9,533,488	23.0	1,182,995	9,785,683	25.3	1,301,295	10,704,865
2027	5,284,903	22.3	1,178,533	9,591,759	23.0	1,215,528	9,845,495	25.3	1,337,080	10,770,296
2028	5,430,238	22.3	1,210,943	9,637,360	23.0	1,248,955	9,892,302	25.3	1,373,850	10,821,500
2029	5,579,570	22.3	1,244,244	9,668,942	23.0	1,283,301	9,924,720	25.3	1,411,631	10,856,963
2030	5,733,008	22.3	1,278,461	9,685,052	23.0	1,318,592	9,941,256	25.3	1,450,451	10,875,052
2031	5,890,666	22.3	1,313,619	9,684,120	23.0	1,354,853	9,940,299	25.3	1,490,338	10,874,006
2032	6,052,659	22.3	1,349,743	9,664,453	23.0	1,392,112	9,920,112	25.3	1,531,323	10,851,923

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	27.0%	\$1,280,187	\$ 11,130,678	28.1%	\$1,332,343	\$ 11,578,757	31.0%	\$1,469,845	\$ 12,720,726
2024	4,871,824	27.0	1,315,392	11,237,451	28.1	1,368,983	11,689,828	31.0	1,510,265	12,842,752
2025	5,005,799	27.0	1,351,566	11,333,207	28.1	1,406,630	11,789,439	31.0	1,551,798	12,952,187
2026	5,143,458	27.0	1,388,734	11,416,667	28.1	1,445,312	11,876,259	31.0	1,594,472	13,047,570
2027	5,284,903	27.0	1,426,924	11,486,448	28.1	1,485,058	11,948,849	31.0	1,638,320	13,127,320
2028	5,430,238	27.0	1,466,164	11,541,057	28.1	1,525,897	12,005,656	31.0	1,683,374	13,189,729
2029	5,579,570	27.0	1,506,484	11,578,878	28.1	1,567,859	12,044,999	31.0	1,729,667	13,232,953
2030	5,733,008	27.0	1,547,912	11,598,170	28.1	1,610,975	12,065,068	31.0	1,777,232	13,255,001
2031	5,890,666	27.0	1,590,480	11,597,054	28.1	1,655,277	12,063,907	31.0	1,826,106	13,253,725
2032	6,052,659	27.0	1,634,218	11,573,502	28.1	1,700,797	12,039,407	31.0	1,876,324	13,226,809

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	13.2%	\$625,869	\$ 6,360,352	17.2%	\$815,527	\$ 7,950,472	17.6%	\$834,493	\$ 8,152,634
2024	4,871,824	13.2	643,081	6,421,365	17.2	837,954	8,026,738	17.6	857,441	8,230,839
2025	5,005,799	13.2	660,765	6,476,083	17.2	860,997	8,095,135	17.6	881,021	8,300,975
2026	5,143,458	13.2	678,936	6,523,774	17.2	884,675	8,154,750	17.6	905,249	8,362,105
2027	5,284,903	13.2	697,607	6,563,649	17.2	909,003	8,204,594	17.6	930,143	8,413,216
2028	5,430,238	13.2	716,791	6,594,854	17.2	934,001	8,243,600	17.6	955,722	8,453,214
2029	5,579,570	13.2	736,503	6,616,466	17.2	959,686	8,270,615	17.6	982,004	8,480,916
2030	5,733,008	13.2	756,757	6,627,490	17.2	986,077	8,284,395	17.6	1,009,009	8,495,046
2031	5,890,666	13.2	777,568	6,626,852	17.2	1,013,195	8,283,598	17.6	1,036,757	8,494,229
2032	6,052,659	13.2	798,951	6,613,394	17.2	1,041,057	8,266,775	17.6	1,065,268	8,476,979

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	20.4%	\$967,253	\$ 9,294,672	21.1%	\$1,000,443	\$ 9,540,551	23.4%	\$1,109,496	\$ 10,436,706
2024	4,871,824	20.4	993,852	9,383,833	21.1	1,027,955	9,632,070	23.4	1,140,007	10,536,822
2025	5,005,799	20.4	1,021,183	9,463,794	21.1	1,056,224	9,714,146	23.4	1,171,357	10,626,608
2026	5,143,458	20.4	1,049,265	9,533,488	21.1	1,085,270	9,785,683	23.4	1,203,569	10,704,865
2027	5,284,903	20.4	1,078,120	9,591,759	21.1	1,115,115	9,845,495	23.4	1,236,667	10,770,296
2028	5,430,238	20.4	1,107,769	9,637,360	21.1	1,145,780	9,892,302	23.4	1,270,676	10,821,500
2029	5,579,570	20.4	1,138,232	9,668,942	21.1	1,177,289	9,924,720	23.4	1,305,619	10,856,963
2030	5,733,008	20.4	1,169,534	9,685,052	21.1	1,209,665	9,941,256	23.4	1,341,524	10,875,052
2031	5,890,666	20.4	1,201,696	9,684,120	21.1	1,242,931	9,940,299	23.4	1,378,416	10,874,006
2032	6,052,659	20.4	1,234,742	9,664,453	21.1	1,277,111	9,920,112	23.4	1,416,322	10,851,923

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	25.1%	\$1,190,100	\$ 11,130,678	26.2%	\$1,242,256	\$ 11,578,757	29.1%	\$1,379,758	\$ 12,720,726
2024	4,871,824	25.1	1,222,828	11,237,451	26.2	1,276,418	11,689,828	29.1	1,417,701	12,842,752
2025	5,005,799	25.1	1,256,456	11,333,207	26.2	1,311,519	11,789,439	29.1	1,456,688	12,952,187
2026	5,143,458	25.1	1,291,008	11,416,667	26.2	1,347,586	11,876,259	29.1	1,496,746	13,047,570
2027	5,284,903	25.1	1,326,511	11,486,448	26.2	1,384,645	11,948,849	29.1	1,537,907	13,127,320
2028	5,430,238	25.1	1,362,990	11,541,057	26.2	1,422,722	12,005,656	29.1	1,580,199	13,189,729
2029	5,579,570	25.1	1,400,472	11,578,878	26.2	1,461,847	12,044,999	29.1	1,623,655	13,232,953
2030	5,733,008	25.1	1,438,985	11,598,170	26.2	1,502,048	12,065,068	29.1	1,668,305	13,255,001
2031	5,890,666	25.1	1,478,557	11,597,054	26.2	1,543,354	12,063,907	29.1	1,714,184	13,253,725
2032	6,052,659	25.1	1,519,217	11,573,502	26.2	1,585,797	12,039,407	29.1	1,761,324	13,226,809

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	11.3%	\$535,782	\$ 6,360,352	15.3%	\$725,440	\$ 7,950,472	15.7%	\$744,405	\$ 8,152,634
2024	4,871,824	11.3	550,516	6,421,365	15.3	745,389	8,026,738	15.7	764,876	8,230,839
2025	5,005,799	11.3	565,655	6,476,083	15.3	765,887	8,095,135	15.7	785,910	8,300,975
2026	5,143,458	11.3	581,211	6,523,774	15.3	786,949	8,154,750	15.7	807,523	8,362,105
2027	5,284,903	11.3	597,194	6,563,649	15.3	808,590	8,204,594	15.7	829,730	8,413,216
2028	5,430,238	11.3	613,617	6,594,854	15.3	830,826	8,243,600	15.7	852,547	8,453,214
2029	5,579,570	11.3	630,491	6,616,466	15.3	853,674	8,270,615	15.7	875,992	8,480,916
2030	5,733,008	11.3	647,830	6,627,490	15.3	877,150	8,284,395	15.7	900,082	8,495,046
2031	5,890,666	11.3	665,645	6,626,852	15.3	901,272	8,283,598	15.7	924,835	8,494,229
2032	6,052,659	11.3	683,950	6,613,394	15.3	926,057	8,266,775	15.7	950,267	8,476,979

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	18.5%	\$877,165	\$ 9,294,672	19.2%	\$910,356	\$ 9,540,551	21.5%	\$1,019,409	\$ 10,436,706
2024	4,871,824	18.5	901,287	9,383,833	19.2	935,390	9,632,070	21.5	1,047,442	10,536,822
2025	5,005,799	18.5	926,073	9,463,794	19.2	961,113	9,714,146	21.5	1,076,247	10,626,608
2026	5,143,458	18.5	951,540	9,533,488	19.2	987,544	9,785,683	21.5	1,105,843	10,704,865
2027	5,284,903	18.5	977,707	9,591,759	19.2	1,014,701	9,845,495	21.5	1,136,254	10,770,296
2028	5,430,238	18.5	1,004,594	9,637,360	19.2	1,042,606	9,892,302	21.5	1,167,501	10,821,500
2029	5,579,570	18.5	1,032,220	9,668,942	19.2	1,071,277	9,924,720	21.5	1,199,608	10,856,963
2030	5,733,008	18.5	1,060,606	9,685,052	19.2	1,100,738	9,941,256	21.5	1,232,597	10,875,052
2031	5,890,666	18.5	1,089,773	9,684,120	19.2	1,131,008	9,940,299	21.5	1,266,493	10,874,006
2032	6,052,659	18.5	1,119,742	9,664,453	19.2	1,162,111	9,920,112	21.5	1,301,322	10,851,923

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	23.2%	\$1,100,013	\$ 11,130,678	24.3%	\$1,152,169	\$ 11,578,757	27.2%	\$1,289,670	\$ 12,720,726
2024	4,871,824	23.2	1,130,263	11,237,451	24.3	1,183,853	11,689,828	27.2	1,325,136	12,842,752
2025	5,005,799	23.2	1,161,345	11,333,207	24.3	1,216,409	11,789,439	27.2	1,361,577	12,952,187
2026	5,143,458	23.2	1,193,282	11,416,667	24.3	1,249,860	11,876,259	27.2	1,399,021	13,047,570
2027	5,284,903	23.2	1,226,097	11,486,448	24.3	1,284,231	11,948,849	27.2	1,437,494	13,127,320
2028	5,430,238	23.2	1,259,815	11,541,057	24.3	1,319,548	12,005,656	27.2	1,477,025	13,189,729
2029	5,579,570	23.2	1,294,460	11,578,878	24.3	1,355,836	12,044,999	27.2	1,517,643	13,232,953
2030	5,733,008	23.2	1,330,058	11,598,170	24.3	1,393,121	12,065,068	27.2	1,559,378	13,255,001
2031	5,890,666	23.2	1,366,635	11,597,054	24.3	1,431,432	12,063,907	27.2	1,602,261	13,253,725
2032	6,052,659	23.2	1,404,217	11,573,502	24.3	1,470,796	12,039,407	27.2	1,646,323	13,226,809

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	17.5%	\$829,751	\$ 6,560,049	21.6%	\$1,024,150	\$ 8,200,094	22.1%	\$1,047,857	\$ 8,412,257
2024	4,871,824	17.5	852,569	6,622,977	21.6	1,052,314	8,278,755	22.1	1,076,673	8,492,953
2025	5,005,799	17.5	876,015	6,679,413	21.6	1,081,253	8,349,300	22.1	1,106,282	8,565,323
2026	5,143,458	17.5	900,105	6,728,602	21.6	1,110,987	8,410,786	22.1	1,136,704	8,628,400
2027	5,284,903	17.5	924,858	6,769,729	21.6	1,141,539	8,462,195	22.1	1,167,964	8,681,139
2028	5,430,238	17.5	950,292	6,801,913	21.6	1,172,931	8,502,426	22.1	1,200,083	8,722,411
2029	5,579,570	17.5	976,425	6,824,203	21.6	1,205,187	8,530,289	22.1	1,233,085	8,750,995
2030	5,733,008	17.5	1,003,276	6,835,573	21.6	1,238,330	8,544,502	22.1	1,266,995	8,765,575
2031	5,890,666	17.5	1,030,867	6,834,915	21.6	1,272,384	8,543,680	22.1	1,301,837	8,764,731
2032	6,052,659	17.5	1,059,215	6,821,034	21.6	1,307,374	8,526,329	22.1	1,337,638	8,746,931

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	25.0%	\$1,185,359	\$ 9,589,245	25.7%	\$1,218,549	\$ 9,840,076	28.0%	\$1,327,602	\$ 10,766,162
2024	4,871,824	25.0	1,217,956	9,681,231	25.7	1,252,059	9,934,469	28.0	1,364,111	10,869,438
2025	5,005,799	25.0	1,251,450	9,763,726	25.7	1,286,490	10,019,122	28.0	1,401,624	10,962,058
2026	5,143,458	25.0	1,285,865	9,835,628	25.7	1,321,869	10,092,905	28.0	1,440,168	11,042,785
2027	5,284,903	25.0	1,321,226	9,895,746	25.7	1,358,220	10,154,595	28.0	1,479,773	11,110,281
2028	5,430,238	25.0	1,357,560	9,942,792	25.7	1,395,571	10,202,872	28.0	1,520,467	11,163,101
2029	5,579,570	25.0	1,394,893	9,975,375	25.7	1,433,949	10,236,308	28.0	1,562,280	11,199,683
2030	5,733,008	25.0	1,433,252	9,991,995	25.7	1,473,383	10,253,363	28.0	1,605,242	11,218,343
2031	5,890,666	25.0	1,472,667	9,991,033	25.7	1,513,901	10,252,376	28.0	1,649,386	11,217,263
2032	6,052,659	25.0	1,513,165	9,970,743	25.7	1,555,533	10,231,555	28.0	1,694,745	11,194,483

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	29.7%	\$1,408,206	\$ 11,480,099	30.9%	\$1,465,103	\$ 11,943,156	33.9%	\$1,607,346	\$ 13,120,193
2024	4,871,824	29.7	1,446,932	11,590,224	30.9	1,505,394	12,057,723	33.9	1,651,548	13,246,051
2025	5,005,799	29.7	1,486,722	11,688,986	30.9	1,546,792	12,160,469	33.9	1,696,966	13,358,923
2026	5,143,458	29.7	1,527,607	11,775,066	30.9	1,589,329	12,250,022	33.9	1,743,632	13,457,301
2027	5,284,903	29.7	1,569,616	11,847,038	30.9	1,633,035	12,324,897	33.9	1,791,582	13,539,555
2028	5,430,238	29.7	1,612,781	11,903,361	30.9	1,677,944	12,383,492	33.9	1,840,851	13,603,924
2029	5,579,570	29.7	1,657,132	11,942,369	30.9	1,724,087	12,424,074	33.9	1,891,474	13,648,505
2030	5,733,008	29.7	1,702,703	11,962,267	30.9	1,771,499	12,444,774	33.9	1,943,490	13,671,245
2031	5,890,666	29.7	1,749,528	11,961,116	30.9	1,820,216	12,443,576	33.9	1,996,936	13,669,929
2032	6,052,659	29.7	1,797,640	11,936,825	30.9	1,870,272	12,418,305	33.9	2,051,851	13,642,168

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	15.6%	\$739,664	\$ 6,560,049	19.7%	\$934,063	\$ 8,200,094	20.2%	\$957,770	\$ 8,412,257
2024	4,871,824	15.6	760,005	6,622,977	19.7	959,749	8,278,755	20.2	984,108	8,492,953
2025	5,005,799	15.6	780,905	6,679,413	19.7	986,142	8,349,300	20.2	1,011,171	8,565,323
2026	5,143,458	15.6	802,379	6,728,602	19.7	1,013,261	8,410,786	20.2	1,038,979	8,628,400
2027	5,284,903	15.6	824,445	6,769,729	19.7	1,041,126	8,462,195	20.2	1,067,550	8,681,139
2028	5,430,238	15.6	847,117	6,801,913	19.7	1,069,757	8,502,426	20.2	1,096,908	8,722,411
2029	5,579,570	15.6	870,413	6,824,203	19.7	1,099,175	8,530,289	20.2	1,127,073	8,750,995
2030	5,733,008	15.6	894,349	6,835,573	19.7	1,129,403	8,544,502	20.2	1,158,068	8,765,575
2031	5,890,666	15.6	918,944	6,834,915	19.7	1,160,461	8,543,680	20.2	1,189,915	8,764,731
2032	6,052,659	15.6	944,215	6,821,034	19.7	1,192,374	8,526,329	20.2	1,222,637	8,746,931

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	23.1%	\$1,095,271	\$ 9,589,245	23.8%	\$1,128,462	\$ 9,840,076	26.1%	\$1,237,515	\$ 10,766,162
2024	4,871,824	23.1	1,125,391	9,681,231	23.8	1,159,494	9,934,469	26.1	1,271,546	10,869,438
2025	5,005,799	23.1	1,156,340	9,763,726	23.8	1,191,380	10,019,122	26.1	1,306,514	10,962,058
2026	5,143,458	23.1	1,188,139	9,835,628	23.8	1,224,143	10,092,905	26.1	1,342,443	11,042,785
2027	5,284,903	23.1	1,220,813	9,895,746	23.8	1,257,807	10,154,595	26.1	1,379,360	11,110,281
2028	5,430,238	23.1	1,254,385	9,942,792	23.8	1,292,397	10,202,872	26.1	1,417,292	11,163,101
2029	5,579,570	23.1	1,288,881	9,975,375	23.8	1,327,938	10,236,308	26.1	1,456,268	11,199,683
2030	5,733,008	23.1	1,324,325	9,991,995	23.8	1,364,456	10,253,363	26.1	1,496,315	11,218,343
2031	5,890,666	23.1	1,360,744	9,991,033	23.8	1,401,979	10,252,376	26.1	1,537,464	11,217,263
2032	6,052,659	23.1	1,398,164	9,970,743	23.8	1,440,533	10,231,555	26.1	1,579,744	11,194,483

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	27.8%	\$1,318,119	\$ 11,480,099	29.0%	\$1,375,016	\$ 11,943,156	32.0%	\$1,517,259	\$ 13,120,193
2024	4,871,824	27.8	1,354,367	11,590,224	29.0	1,412,829	12,057,723	32.0	1,558,984	13,246,051
2025	5,005,799	27.8	1,391,612	11,688,986	29.0	1,451,682	12,160,469	32.0	1,601,856	13,358,923
2026	5,143,458	27.8	1,429,881	11,775,066	29.0	1,491,603	12,250,022	32.0	1,645,907	13,457,301
2027	5,284,903	27.8	1,469,203	11,847,038	29.0	1,532,622	12,324,897	32.0	1,691,169	13,539,555
2028	5,430,238	27.8	1,509,606	11,903,361	29.0	1,574,769	12,383,492	32.0	1,737,676	13,603,924
2029	5,579,570	27.8	1,551,120	11,942,369	29.0	1,618,075	12,424,074	32.0	1,785,462	13,648,505
2030	5,733,008	27.8	1,593,776	11,962,267	29.0	1,662,572	12,444,774	32.0	1,834,563	13,671,245
2031	5,890,666	27.8	1,637,605	11,961,116	29.0	1,708,293	12,443,576	32.0	1,885,013	13,669,929
2032	6,052,659	27.8	1,682,639	11,936,825	29.0	1,755,271	12,418,305	32.0	1,936,851	13,642,168

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	13.7%	\$649,577	\$ 6,560,049	17.8%	\$843,975	\$ 8,200,094	18.3%	\$867,683	\$ 8,412,257
2024	4,871,824	13.7	667,440	6,622,977	17.8	867,185	8,278,755	18.3	891,544	8,492,953
2025	5,005,799	13.7	685,794	6,679,413	17.8	891,032	8,349,300	18.3	916,061	8,565,323
2026	5,143,458	13.7	704,654	6,728,602	17.8	915,536	8,410,786	18.3	941,253	8,628,400
2027	5,284,903	13.7	724,032	6,769,729	17.8	940,713	8,462,195	18.3	967,137	8,681,139
2028	5,430,238	13.7	743,943	6,801,913	17.8	966,582	8,502,426	18.3	993,734	8,722,411
2029	5,579,570	13.7	764,401	6,824,203	17.8	993,163	8,530,289	18.3	1,021,061	8,750,995
2030	5,733,008	13.7	785,422	6,835,573	17.8	1,020,475	8,544,502	18.3	1,049,140	8,765,575
2031	5,890,666	13.7	807,021	6,834,915	17.8	1,048,539	8,543,680	18.3	1,077,992	8,764,731
2032	6,052,659	13.7	829,214	6,821,034	17.8	1,077,373	8,526,329	18.3	1,107,637	8,746,931

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	21.2%	\$1,005,184	\$ 9,589,245	21.9%	\$1,038,374	\$ 9,840,076	24.2%	\$1,147,427	\$ 10,766,162
2024	4,871,824	21.2	1,032,827	9,681,231	21.9	1,066,929	9,934,469	24.2	1,178,981	10,869,438
2025	5,005,799	21.2	1,061,229	9,763,726	21.9	1,096,270	10,019,122	24.2	1,211,403	10,962,058
2026	5,143,458	21.2	1,090,413	9,835,628	21.9	1,126,417	10,092,905	24.2	1,244,717	11,042,785
2027	5,284,903	21.2	1,120,399	9,895,746	21.9	1,157,394	10,154,595	24.2	1,278,947	11,110,281
2028	5,430,238	21.2	1,151,210	9,942,792	21.9	1,189,222	10,202,872	24.2	1,314,118	11,163,101
2029	5,579,570	21.2	1,182,869	9,975,375	21.9	1,221,926	10,236,308	24.2	1,350,256	11,199,683
2030	5,733,008	21.2	1,215,398	9,991,995	21.9	1,255,529	10,253,363	24.2	1,387,388	11,218,343
2031	5,890,666	21.2	1,248,821	9,991,033	21.9	1,290,056	10,252,376	24.2	1,425,541	11,217,263
2032	6,052,659	21.2	1,283,164	9,970,743	21.9	1,325,532	10,231,555	24.2	1,464,743	11,194,483

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	25.9%	\$1,228,032	\$ 11,480,099	27.1%	\$1,284,929	\$ 11,943,156	30.1%	\$1,427,172	\$ 13,120,193
2024	4,871,824	25.9	1,261,802	11,590,224	27.1	1,320,264	12,057,723	30.1	1,466,419	13,246,051
2025	5,005,799	25.9	1,296,502	11,688,986	27.1	1,356,572	12,160,469	30.1	1,506,745	13,358,923
2026	5,143,458	25.9	1,332,156	11,775,066	27.1	1,393,877	12,250,022	30.1	1,548,181	13,457,301
2027	5,284,903	25.9	1,368,790	11,847,038	27.1	1,432,209	12,324,897	30.1	1,590,756	13,539,555
2028	5,430,238	25.9	1,406,432	11,903,361	27.1	1,471,594	12,383,492	30.1	1,634,502	13,603,924
2029	5,579,570	25.9	1,445,109	11,942,369	27.1	1,512,063	12,424,074	30.1	1,679,451	13,648,505
2030	5,733,008	25.9	1,484,849	11,962,267	27.1	1,553,645	12,444,774	30.1	1,725,635	13,671,245
2031	5,890,666	25.9	1,525,682	11,961,116	27.1	1,596,370	12,443,576	30.1	1,773,090	13,669,929
2032	6,052,659	25.9	1,567,639	11,936,825	27.1	1,640,271	12,418,305	30.1	1,821,850	13,642,168

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



City of Des Peres - Fire

Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	11.8%	\$559,489	\$ 6,560,049	15.9%	\$753,888	\$ 8,200,094	16.4%	\$777,595	\$ 8,412,257
2024	4,871,824	11.8	574,875	6,622,977	15.9	774,620	8,278,755	16.4	798,979	8,492,953
2025	5,005,799	11.8	590,684	6,679,413	15.9	795,922	8,349,300	16.4	820,951	8,565,323
2026	5,143,458	11.8	606,928	6,728,602	15.9	817,810	8,410,786	16.4	843,527	8,628,400
2027	5,284,903	11.8	623,619	6,769,729	15.9	840,300	8,462,195	16.4	866,724	8,681,139
2028	5,430,238	11.8	640,768	6,801,913	15.9	863,408	8,502,426	16.4	890,559	8,722,411
2029	5,579,570	11.8	658,389	6,824,203	15.9	887,152	8,530,289	16.4	915,049	8,750,995
2030	5,733,008	11.8	676,495	6,835,573	15.9	911,548	8,544,502	16.4	940,213	8,765,575
2031	5,890,666	11.8	695,099	6,834,915	15.9	936,616	8,543,680	16.4	966,069	8,764,731
2032	6,052,659	11.8	714,214	6,821,034	15.9	962,373	8,526,329	16.4	992,636	8,746,931

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	19.3%	\$915,097	\$ 9,589,245	20.0%	\$948,287	\$ 9,840,076	22.3%	\$1,057,340	\$ 10,766,162
2024	4,871,824	19.3	940,262	9,681,231	20.0	974,365	9,934,469	22.3	1,086,417	10,869,438
2025	5,005,799	19.3	966,119	9,763,726	20.0	1,001,160	10,019,122	22.3	1,116,293	10,962,058
2026	5,143,458	19.3	992,687	9,835,628	20.0	1,028,692	10,092,905	22.3	1,146,991	11,042,785
2027	5,284,903	19.3	1,019,986	9,895,746	20.0	1,056,981	10,154,595	22.3	1,178,533	11,110,281
2028	5,430,238	19.3	1,048,036	9,942,792	20.0	1,086,048	10,202,872	22.3	1,210,943	11,163,101
2029	5,579,570	19.3	1,076,857	9,975,375	20.0	1,115,914	10,236,308	22.3	1,244,244	11,199,683
2030	5,733,008	19.3	1,106,471	9,991,995	20.0	1,146,602	10,253,363	22.3	1,278,461	11,218,343
2031	5,890,666	19.3	1,136,899	9,991,033	20.0	1,178,133	10,252,376	22.3	1,313,619	11,217,263
2032	6,052,659	19.3	1,168,163	9,970,743	20.0	1,210,532	10,231,555	22.3	1,349,743	11,194,483

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 4,741,435	24.0%	\$1,137,944	\$ 11,480,099	25.2%	\$1,194,842	\$ 11,943,156	28.2%	\$1,337,085	\$ 13,120,193
2024	4,871,824	24.0	1,169,238	11,590,224	25.2	1,227,700	12,057,723	28.2	1,373,854	13,246,051
2025	5,005,799	24.0	1,201,392	11,688,986	25.2	1,261,461	12,160,469	28.2	1,411,635	13,358,923
2026	5,143,458	24.0	1,234,430	11,775,066	25.2	1,296,151	12,250,022	28.2	1,450,455	13,457,301
2027	5,284,903	24.0	1,268,377	11,847,038	25.2	1,331,796	12,324,897	28.2	1,490,343	13,539,555
2028	5,430,238	24.0	1,303,257	11,903,361	25.2	1,368,420	12,383,492	28.2	1,531,327	13,603,924
2029	5,579,570	24.0	1,339,097	11,942,369	25.2	1,406,052	12,424,074	28.2	1,573,439	13,648,505
2030	5,733,008	24.0	1,375,922	11,962,267	25.2	1,444,718	12,444,774	28.2	1,616,708	13,671,245
2031	5,890,666	24.0	1,413,760	11,961,116	25.2	1,484,448	12,443,576	28.2	1,661,168	13,669,929
2032	6,052,659	24.0	1,452,638	11,936,825	25.2	1,525,270	12,418,305	28.2	1,706,850	13,642,168

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

