



The Initial Valuation For

# City of Des Peres

Prior Service Credit for Vesting Purposes Only  
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%	1.20%	8.00%	6.10%	4.20%	2.30%
	Fire	8.40	0.60	1.00	10.00	8.10	6.20	4.30
L-3	General	8.00	0.30	1.50	9.80	7.90	6.00	4.10
	Fire	10.30	0.70	1.20	12.20	10.30	8.40	6.50
LT-4(65)	General	7.30	0.20	1.30	8.80	6.90	5.00	3.10
	Fire	10.40	0.60	1.20	12.20	10.30	8.40	6.50
LT-5(65)	General	8.50	0.30	1.60	10.40	8.50	6.60	4.70
	Fire	11.80	0.70	1.40	13.90	12.00	10.10	8.20
L-7	General	9.40	0.30	1.80	11.50	9.60	7.70	5.80
	Fire	12.20	0.80	1.50	14.50	12.60	10.70	8.80
LT-8(65)	General	9.80	0.30	1.90	12.00	10.10	8.20	6.30
	Fire	13.20	0.80	1.60	15.60	13.70	11.80	9.90
L-12	General	10.80	0.40	2.10	13.30	11.40	9.50	7.60
	Fire	14.10	0.90	1.70	16.70	14.80	12.90	11.00
LT-14(65)	General	11.00	0.40	2.10	13.50	11.60	9.70	7.80
	Fire	14.60	0.90	1.80	17.30	15.40	13.50	11.60
L-6	General	12.30	0.50	2.40	15.20	13.30	11.40	9.50
	Fire	15.90	1.00	2.00	18.90	17.00	15.10	13.20

\* Prior service credit was given for vesting purposes only.

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%	1.20%	8.20%	6.30%	4.40%	2.50%
	Fire	8.70	0.60	1.00	10.30	8.40	6.50	4.60
L-3	General	8.20	0.30	1.50	10.00	8.10	6.20	4.30
	Fire	10.60	0.70	1.30	12.60	10.70	8.80	6.90
LT-4(65)	General	7.50	0.20	1.40	9.10	7.20	5.30	3.40
	Fire	10.80	0.60	1.20	12.60	10.70	8.80	6.90
LT-5(65)	General	8.80	0.30	1.60	10.70	8.80	6.90	5.00
	Fire	12.20	0.70	1.40	14.30	12.40	10.50	8.60
L-7	General	9.70	0.30	1.80	11.80	9.90	8.00	6.10
	Fire	12.60	0.80	1.50	14.90	13.00	11.10	9.20
LT-8(65)	General	10.10	0.30	1.90	12.30	10.40	8.50	6.60
	Fire	13.60	0.80	1.60	16.00	14.10	12.20	10.30
L-12	General	11.20	0.40	2.10	13.70	11.80	9.90	8.00
	Fire	14.50	0.90	1.80	17.20	15.30	13.40	11.50
LT-14(65)	General	11.40	0.40	2.20	14.00	12.10	10.20	8.30
	Fire	15.00	0.90	1.80	17.70	15.80	13.90	12.00
L-6	General	12.70	0.50	2.40	15.60	13.70	11.80	9.90
	Fire	16.40	1.00	2.10	19.50	17.60	15.70	13.80

\* Prior service credit was given for vesting purposes only.

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%	1.20%	8.40%	6.50%	4.60%	2.70%
	Fire	8.60	0.60	1.00	10.20	8.30	6.40	4.50
L-3	General	8.50	0.30	1.50	10.30	8.40	6.50	4.60
	Fire	10.50	0.70	1.20	12.40	10.50	8.60	6.70
LT-4(65)	General	8.20	0.20	1.50	9.90	8.00	6.10	4.20
	Fire	10.80	0.60	1.20	12.60	10.70	8.80	6.90
LT-5(65)	General	9.40	0.30	1.70	11.40	9.50	7.60	5.70
	Fire	12.10	0.70	1.40	14.20	12.30	10.40	8.50
L-7	General	10.00	0.30	1.80	12.10	10.20	8.30	6.40
	Fire	12.40	0.80	1.50	14.70	12.80	10.90	9.00
LT-8(65)	General	10.60	0.30	1.90	12.80	10.90	9.00	7.10
	Fire	13.50	0.80	1.60	15.90	14.00	12.10	10.20
L-12	General	11.50	0.40	2.10	14.00	12.10	10.20	8.30
	Fire	14.30	0.90	1.70	16.90	15.00	13.10	11.20
LT-14(65)	General	11.80	0.40	2.10	14.30	12.40	10.50	8.60
	Fire	14.80	0.90	1.80	17.50	15.60	13.70	11.80
L-6	General	13.10	0.50	2.40	16.00	14.10	12.20	10.30
	Fire	16.20	1.00	2.00	19.20	17.30	15.40	13.50

# 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.

\* Prior service credit was given for vesting purposes only.

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%	1.20%	8.60%	6.70%	4.80%	2.90%
	Fire	8.80	0.60	1.00	10.40	8.50	6.60	4.70
L-3	General	8.80	0.30	1.50	10.60	8.70	6.80	4.90
	Fire	10.80	0.70	1.30	12.80	10.90	9.00	7.10
LT-4(65)	General	8.40	0.20	1.50	10.10	8.20	6.30	4.40
	Fire	11.10	0.60	1.30	13.00	11.10	9.20	7.30
LT-5(65)	General	9.70	0.30	1.80	11.80	9.90	8.00	6.10
	Fire	12.50	0.70	1.50	14.70	12.80	10.90	9.00
L-7	General	10.30	0.30	1.80	12.40	10.50	8.60	6.70
	Fire	12.80	0.80	1.50	15.10	13.20	11.30	9.40
LT-8(65)	General	11.00	0.30	2.00	13.30	11.40	9.50	7.60
	Fire	13.90	0.80	1.60	16.30	14.40	12.50	10.60
L-12	General	11.90	0.40	2.10	14.40	12.50	10.60	8.70
	Fire	14.70	0.90	1.80	17.40	15.50	13.60	11.70
LT-14(65)	General	12.20	0.40	2.20	14.80	12.90	11.00	9.10
	Fire	15.30	0.90	1.80	18.00	16.10	14.20	12.30
L-6	General	13.50	0.50	2.40	16.40	14.50	12.60	10.70
	Fire	16.70	1.00	2.00	19.70	17.80	15.90	14.00

# 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.

\* Prior service credit was given for vesting purposes only.

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	\$ 292,710	\$ 223,191	\$ 153,673	\$ 84,154
L-3	358,569	289,051	219,532	150,014
LT-4(65)	321,981	252,462	182,944	113,425
LT-5(65)	380,523	311,004	241,485	171,967
L-7	420,770	351,252	281,733	212,215
LT-8(65)	439,065	369,546	300,027	230,509
L-12	486,630	417,111	347,593	278,074
LT-14(65)	493,948	424,429	354,910	285,392
L-6	556,148	486,630	417,111	347,593

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 300,027	\$ 230,509	\$ 160,990	\$ 91,472
L-3	365,887	296,369	226,850	157,331
LT-4(65)	332,957	263,439	193,920	124,402
LT-5(65)	391,499	321,981	252,462	182,944
L-7	431,747	362,228	292,710	223,191
LT-8(65)	450,041	380,523	311,004	241,485
L-12	501,265	431,747	362,228	292,710
LT-14(65)	512,242	442,723	373,205	303,686
L-6	570,784	501,265	431,747	362,228

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 307,345	\$ 237,827	\$ 168,308	\$ 98,790
L-3	376,864	307,345	237,827	168,308
LT-4(65)	362,228	292,710	223,191	153,673
LT-5(65)	417,111	347,593	278,074	208,556
L-7	442,723	373,205	303,686	234,168
LT-8(65)	468,335	398,817	329,298	259,780
L-12	512,242	442,723	373,205	303,686
LT-14(65)	523,219	453,700	384,181	314,663
L-6	585,419	515,901	446,382	376,864

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 314,663	\$ 245,144	\$ 175,626	\$ 106,107
L-3	387,840	318,322	248,803	179,285
LT-4(65)	369,546	300,027	230,509	160,990
LT-5(65)	431,747	362,228	292,710	223,191
L-7	453,700	384,181	314,663	245,144
LT-8(65)	486,630	417,111	347,593	278,074
L-12	526,877	457,359	387,840	318,322
LT-14(65)	541,513	471,994	402,476	332,957
L-6	600,055	530,536	461,018	391,499

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	\$ 474,144	\$ 384,056	\$ 293,969	\$ 203,882
L-3	578,455	488,368	398,281	308,193
LT-4(65)	578,455	488,368	398,281	308,193
LT-5(65)	659,059	568,972	478,885	388,798
L-7	687,508	597,421	507,334	417,246
LT-8(65)	739,664	649,577	559,489	469,402
L-12	791,820	701,732	611,645	521,558
LT-14(65)	820,268	730,181	640,094	550,006
L-6	896,131	806,044	715,957	625,869

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 488,368	\$ 398,281	\$ 308,193	\$ 218,106
L-3	597,421	507,334	417,246	327,159
LT-4(65)	597,421	507,334	417,246	327,159
LT-5(65)	678,025	587,938	497,851	407,763
L-7	706,474	616,387	526,299	436,212
LT-8(65)	758,630	668,542	578,455	488,368
L-12	815,527	725,440	635,352	545,265
LT-14(65)	839,234	749,147	659,059	568,972
L-6	924,580	834,493	744,405	654,318

#### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 483,626	\$ 393,539	\$ 303,452	\$ 213,365
L-3	587,938	497,851	407,763	317,676
LT-4(65)	597,421	507,334	417,246	327,159
LT-5(65)	673,284	583,197	493,109	403,022
L-7	696,991	606,904	516,816	426,729
LT-8(65)	753,888	663,801	573,714	483,626
L-12	801,303	711,215	621,128	531,041
LT-14(65)	829,751	739,664	649,577	559,489
L-6	910,356	820,268	730,181	640,094

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 493,109	\$ 403,022	\$ 312,935	\$ 222,847
L-3	606,904	516,816	426,729	336,642
LT-4(65)	616,387	526,299	436,212	346,125
LT-5(65)	696,991	606,904	516,816	426,729
L-7	715,957	625,869	535,782	445,695
LT-8(65)	772,854	682,767	592,679	502,592
L-12	825,010	734,922	644,835	554,748
LT-14(65)	853,458	763,371	673,284	583,197
L-6	934,063	843,975	753,888	663,801

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**

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### **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	\$ 742,557	\$ 765,033
	Fire	811,484	832,423
L-3	General	928,267	956,233
	Fire	1,014,340	1,040,539
LT-4(65)	General	834,151	859,704
	Fire	980,520	1,006,808
LT-5(65)	General	996,949	1,027,269
	Fire	1,141,196	1,171,312
L-7	General	1,113,797	1,147,523
	Fire	1,217,192	1,248,569
LT-8(65)	General	1,159,613	1,194,927
	Fire	1,301,720	1,335,784
L-12	General	1,299,488	1,338,782
	Fire	1,420,144	1,456,653
LT-14(65)	General	1,322,362	1,362,432
	Fire	1,462,434	1,500,248
L-6	General	1,485,130	1,530,008
	Fire	1,622,881	1,664,765

# 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	\$ 741,577	\$ 765,319
	Fire	799,180	820,533
L-3	General	927,152	956,622
	Fire	999,023	1,025,688
LT-4(65)	General	927,151	957,421
	Fire	995,675	1,023,377
LT-5(65)	General	1,066,267	1,100,797
	Fire	1,146,384	1,177,815
L-7	General	1,112,479	1,147,949
	Fire	1,198,811	1,230,787
LT-8(65)	General	1,205,178	1,244,090
	Fire	1,297,065	1,332,198
L-12	General	1,297,881	1,339,295
	Fire	1,398,651	1,435,939
LT-14(65)	General	1,344,245	1,387,344
	Fire	1,447,785	1,486,652
L-6	General	1,483,322	1,530,655
	Fire	1,598,406	1,641,154

## **APPENDIX II**

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### **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**

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### **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**

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### **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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	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%	

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	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%	

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> to age 65)**  
**1.00% of FAS <sup>1</sup> at age 65)**

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> to age 65)**  
**1.25% of FAS <sup>1</sup> at age 65)**

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> to age 65)**  
**1.50% of FAS <sup>1</sup> at age 65)**

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

<sup>3</sup> 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 <sup>1</sup> to age 65)  
1.75% of FAS <sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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%

<sup>1</sup> "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.

<sup>2</sup> "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.

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

## **APPENDIX V**

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### **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
<b>Under 20</b>									
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
<b>Totals</b>	<b>17</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>49</b>	<b>\$ 3,658,871</b>

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: 0.0 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
<b>Under 20</b>									
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									
<b>70 &amp; Over</b>									
<b>Totals</b>	<b>14</b>	<b>12</b>	<b>7</b>	<b>1</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>46</b>	<b>\$ 4,741,435</b>

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: 0.0 years.

Annual Pay: \$103,075.

## **APPENDIX VI**

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### **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 (prior service credit for vesting purposes only) 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	8.0%	\$292,710	\$ 742,557	9.8%	\$358,569	\$ 928,267	8.8%	\$321,981	\$ 834,151
2024	3,759,490	8.0	300,759	749,680	9.8	368,430	937,172	8.8	330,835	842,153
2025	3,862,876	8.0	309,030	756,068	9.8	378,562	945,158	8.8	339,933	849,329
2026	3,969,105	8.0	317,528	761,636	9.8	388,972	952,118	8.8	349,281	855,584
2027	4,078,255	8.0	326,260	766,291	9.8	399,669	957,938	8.8	358,886	860,814
2028	4,190,407	8.0	335,233	769,934	9.8	410,660	962,492	8.8	368,756	864,906
2029	4,305,643	8.0	344,451	772,457	9.8	421,953	965,646	8.8	378,897	867,740
2030	4,424,048	8.0	353,924	773,744	9.8	433,557	967,255	8.8	389,316	869,186
2031	4,545,709	8.0	363,657	773,670	9.8	445,479	967,162	8.8	400,022	869,102
2032	4,670,716	8.0	373,657	772,099	9.8	457,730	965,198	8.8	411,023	867,337

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	10.4%	\$380,523	\$ 996,949	11.5%	\$420,770	\$ 1,113,797	12.0%	\$439,065	\$ 1,159,613
2024	3,759,490	10.4	390,987	1,006,512	11.5	432,341	1,124,481	12.0	451,139	1,170,737
2025	3,862,876	10.4	401,739	1,015,089	11.5	444,231	1,134,063	12.0	463,545	1,180,713
2026	3,969,105	10.4	412,787	1,022,564	11.5	456,447	1,142,415	12.0	476,293	1,189,408
2027	4,078,255	10.4	424,139	1,028,814	11.5	468,999	1,149,398	12.0	489,391	1,196,678
2028	4,190,407	10.4	435,802	1,033,705	11.5	481,897	1,154,862	12.0	502,849	1,202,367
2029	4,305,643	10.4	447,787	1,037,093	11.5	495,149	1,158,647	12.0	516,677	1,206,307
2030	4,424,048	10.4	460,101	1,038,821	11.5	508,766	1,160,577	12.0	530,886	1,208,317
2031	4,545,709	10.4	472,754	1,038,721	11.5	522,757	1,160,465	12.0	545,485	1,208,201
2032	4,670,716	10.4	485,754	1,036,612	11.5	537,132	1,158,108	12.0	560,486	1,205,747

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	13.3%	\$486,630	\$ 1,299,488	13.5%	\$493,948	\$ 1,322,362	15.2%	\$556,148	\$ 1,485,130
2024	3,759,490	13.3	500,012	1,311,954	13.5	507,531	1,335,047	15.2	571,442	1,499,376
2025	3,862,876	13.3	513,763	1,323,133	13.5	521,488	1,346,423	15.2	587,157	1,512,152
2026	3,969,105	13.3	527,891	1,332,877	13.5	535,829	1,356,338	15.2	603,304	1,523,288
2027	4,078,255	13.3	542,408	1,341,024	13.5	550,564	1,364,628	15.2	619,895	1,532,599
2028	4,190,407	13.3	557,324	1,347,399	13.5	565,705	1,371,116	15.2	636,942	1,539,885
2029	4,305,643	13.3	572,651	1,351,815	13.5	581,262	1,375,609	15.2	654,458	1,544,931
2030	4,424,048	13.3	588,398	1,354,067	13.5	597,246	1,377,901	15.2	672,455	1,547,505
2031	4,545,709	13.3	604,579	1,353,937	13.5	613,671	1,377,768	15.2	690,948	1,547,356
2032	4,670,716	13.3	621,205	1,351,187	13.5	630,547	1,374,970	15.2	709,949	1,544,214

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 28<sup>th</sup> 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	6.1%	\$223,191	\$ 742,557	7.9%	\$289,051	\$ 928,267	6.9%	\$252,462	\$ 834,151
2024	3,759,490	6.1	229,329	749,680	7.9	297,000	937,172	6.9	259,405	842,153
2025	3,862,876	6.1	235,635	756,068	7.9	305,167	945,158	6.9	266,538	849,329
2026	3,969,105	6.1	242,115	761,636	7.9	313,559	952,118	6.9	273,868	855,584
2027	4,078,255	6.1	248,774	766,291	7.9	322,182	957,938	6.9	281,400	860,814
2028	4,190,407	6.1	255,615	769,934	7.9	331,042	962,492	6.9	289,138	864,906
2029	4,305,643	6.1	262,644	772,457	7.9	340,146	965,646	6.9	297,089	867,740
2030	4,424,048	6.1	269,867	773,744	7.9	349,500	967,255	6.9	305,259	869,186
2031	4,545,709	6.1	277,288	773,670	7.9	359,111	967,162	6.9	313,654	869,102
2032	4,670,716	6.1	284,914	772,099	7.9	368,987	965,198	6.9	322,279	867,337

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	8.5%	\$311,004	\$ 996,949	9.6%	\$351,252	\$ 1,113,797	10.1%	\$369,546	\$ 1,159,613
2024	3,759,490	8.5	319,557	1,006,512	9.6	360,911	1,124,481	10.1	379,708	1,170,737
2025	3,862,876	8.5	328,344	1,015,089	9.6	370,836	1,134,063	10.1	390,150	1,180,713
2026	3,969,105	8.5	337,374	1,022,564	9.6	381,034	1,142,415	10.1	400,880	1,189,408
2027	4,078,255	8.5	346,652	1,028,814	9.6	391,512	1,149,398	10.1	411,904	1,196,678
2028	4,190,407	8.5	356,185	1,033,705	9.6	402,279	1,154,862	10.1	423,231	1,202,367
2029	4,305,643	8.5	365,980	1,037,093	9.6	413,342	1,158,647	10.1	434,870	1,206,307
2030	4,424,048	8.5	376,044	1,038,821	9.6	424,709	1,160,577	10.1	446,829	1,208,317
2031	4,545,709	8.5	386,385	1,038,721	9.6	436,388	1,160,465	10.1	459,117	1,208,201
2032	4,670,716	8.5	397,011	1,036,612	9.6	448,389	1,158,108	10.1	471,742	1,205,747

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	11.4%	\$417,111	\$ 1,299,488	11.6%	\$424,429	\$ 1,322,362	13.3%	\$486,630	\$ 1,485,130
2024	3,759,490	11.4	428,582	1,311,954	11.6	436,101	1,335,047	13.3	500,012	1,499,376
2025	3,862,876	11.4	440,368	1,323,133	11.6	448,094	1,346,423	13.3	513,763	1,512,152
2026	3,969,105	11.4	452,478	1,332,877	11.6	460,416	1,356,338	13.3	527,891	1,523,288
2027	4,078,255	11.4	464,921	1,341,024	11.6	473,078	1,364,628	13.3	542,408	1,532,599
2028	4,190,407	11.4	477,706	1,347,399	11.6	486,087	1,371,116	13.3	557,324	1,539,885
2029	4,305,643	11.4	490,843	1,351,815	11.6	499,455	1,375,609	13.3	572,651	1,544,931
2030	4,424,048	11.4	504,341	1,354,067	11.6	513,190	1,377,901	13.3	588,398	1,547,505
2031	4,545,709	11.4	518,211	1,353,937	11.6	527,302	1,377,768	13.3	604,579	1,547,356
2032	4,670,716	11.4	532,462	1,351,187	11.6	541,803	1,374,970	13.3	621,205	1,544,214

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 28<sup>th</sup> 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	4.2%	\$153,673	\$ 742,557	6.0%	\$219,532	\$ 928,267	5.0%	\$182,944	\$ 834,151
2024	3,759,490	4.2	157,899	749,680	6.0	225,569	937,172	5.0	187,975	842,153
2025	3,862,876	4.2	162,241	756,068	6.0	231,773	945,158	5.0	193,144	849,329
2026	3,969,105	4.2	166,702	761,636	6.0	238,146	952,118	5.0	198,455	855,584
2027	4,078,255	4.2	171,287	766,291	6.0	244,695	957,938	5.0	203,913	860,814
2028	4,190,407	4.2	175,997	769,934	6.0	251,424	962,492	5.0	209,520	864,906
2029	4,305,643	4.2	180,837	772,457	6.0	258,339	965,646	5.0	215,282	867,740
2030	4,424,048	4.2	185,810	773,744	6.0	265,443	967,255	5.0	221,202	869,186
2031	4,545,709	4.2	190,920	773,670	6.0	272,743	967,162	5.0	227,285	869,102
2032	4,670,716	4.2	196,170	772,099	6.0	280,243	965,198	5.0	233,536	867,337

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	6.6%	\$241,485	\$ 996,949	7.7%	\$281,733	\$ 1,113,797	8.2%	\$300,027	\$ 1,159,613
2024	3,759,490	6.6	248,126	1,006,512	7.7	289,481	1,124,481	8.2	308,278	1,170,737
2025	3,862,876	6.6	254,950	1,015,089	7.7	297,441	1,134,063	8.2	316,756	1,180,713
2026	3,969,105	6.6	261,961	1,022,564	7.7	305,621	1,142,415	8.2	325,467	1,189,408
2027	4,078,255	6.6	269,165	1,028,814	7.7	314,026	1,149,398	8.2	334,417	1,196,678
2028	4,190,407	6.6	276,567	1,033,705	7.7	322,661	1,154,862	8.2	343,613	1,202,367
2029	4,305,643	6.6	284,172	1,037,093	7.7	331,535	1,158,647	8.2	353,063	1,206,307
2030	4,424,048	6.6	291,987	1,038,821	7.7	340,652	1,160,577	8.2	362,772	1,208,317
2031	4,545,709	6.6	300,017	1,038,721	7.7	350,020	1,160,465	8.2	372,748	1,208,201
2032	4,670,716	6.6	308,267	1,036,612	7.7	359,645	1,158,108	8.2	382,999	1,205,747

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	9.5%	\$347,593	\$ 1,299,488	9.7%	\$354,910	\$ 1,322,362	11.4%	\$417,111	\$ 1,485,130
2024	3,759,490	9.5	357,152	1,311,954	9.7	364,671	1,335,047	11.4	428,582	1,499,376
2025	3,862,876	9.5	366,973	1,323,133	9.7	374,699	1,346,423	11.4	440,368	1,512,152
2026	3,969,105	9.5	377,065	1,332,877	9.7	385,003	1,356,338	11.4	452,478	1,523,288
2027	4,078,255	9.5	387,434	1,341,024	9.7	395,591	1,364,628	11.4	464,921	1,532,599
2028	4,190,407	9.5	398,089	1,347,399	9.7	406,469	1,371,116	11.4	477,706	1,539,885
2029	4,305,643	9.5	409,036	1,351,815	9.7	417,647	1,375,609	11.4	490,843	1,544,931
2030	4,424,048	9.5	420,285	1,354,067	9.7	429,133	1,377,901	11.4	504,341	1,547,505
2031	4,545,709	9.5	431,842	1,353,937	9.7	440,934	1,377,768	11.4	518,211	1,547,356
2032	4,670,716	9.5	443,718	1,351,187	9.7	453,059	1,374,970	11.4	532,462	1,544,214

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 28<sup>th</sup> 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	2.3%	\$84,154	\$ 742,557	4.1%	\$150,014	\$ 928,267	3.1%	\$113,425	\$ 834,151
2024	3,759,490	2.3	86,468	749,680	4.1	154,139	937,172	3.1	116,544	842,153
2025	3,862,876	2.3	88,846	756,068	4.1	158,378	945,158	3.1	119,749	849,329
2026	3,969,105	2.3	91,289	761,636	4.1	162,733	952,118	3.1	123,042	855,584
2027	4,078,255	2.3	93,800	766,291	4.1	167,208	957,938	3.1	126,426	860,814
2028	4,190,407	2.3	96,379	769,934	4.1	171,807	962,492	3.1	129,903	864,906
2029	4,305,643	2.3	99,030	772,457	4.1	176,531	965,646	3.1	133,475	867,740
2030	4,424,048	2.3	101,753	773,744	4.1	181,386	967,255	3.1	137,145	869,186
2031	4,545,709	2.3	104,551	773,670	4.1	186,374	967,162	3.1	140,917	869,102
2032	4,670,716	2.3	107,426	772,099	4.1	191,499	965,198	3.1	144,792	867,337

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	4.7%	\$171,967	\$ 996,949	5.8%	\$212,215	\$ 1,113,797	6.3%	\$230,509	\$ 1,159,613
2024	3,759,490	4.7	176,696	1,006,512	5.8	218,050	1,124,481	6.3	236,848	1,170,737
2025	3,862,876	4.7	181,555	1,015,089	5.8	224,047	1,134,063	6.3	243,361	1,180,713
2026	3,969,105	4.7	186,548	1,022,564	5.8	230,208	1,142,415	6.3	250,054	1,189,408
2027	4,078,255	4.7	191,678	1,028,814	5.8	236,539	1,149,398	6.3	256,930	1,196,678
2028	4,190,407	4.7	196,949	1,033,705	5.8	243,044	1,154,862	6.3	263,996	1,202,367
2029	4,305,643	4.7	202,365	1,037,093	5.8	249,727	1,158,647	6.3	271,256	1,206,307
2030	4,424,048	4.7	207,930	1,038,821	5.8	256,595	1,160,577	6.3	278,715	1,208,317
2031	4,545,709	4.7	213,648	1,038,721	5.8	263,651	1,160,465	6.3	286,380	1,208,201
2032	4,670,716	4.7	219,524	1,036,612	5.8	270,902	1,158,108	6.3	294,255	1,205,747

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	7.6%	\$278,074	\$ 1,299,488	7.8%	\$285,392	\$ 1,322,362	9.5%	\$347,593	\$ 1,485,130
2024	3,759,490	7.6	285,721	1,311,954	7.8	293,240	1,335,047	9.5	357,152	1,499,376
2025	3,862,876	7.6	293,579	1,323,133	7.8	301,304	1,346,423	9.5	366,973	1,512,152
2026	3,969,105	7.6	301,652	1,332,877	7.8	309,590	1,356,338	9.5	377,065	1,523,288
2027	4,078,255	7.6	309,947	1,341,024	7.8	318,104	1,364,628	9.5	387,434	1,532,599
2028	4,190,407	7.6	318,471	1,347,399	7.8	326,852	1,371,116	9.5	398,089	1,539,885
2029	4,305,643	7.6	327,229	1,351,815	7.8	335,840	1,375,609	9.5	409,036	1,544,931
2030	4,424,048	7.6	336,228	1,354,067	7.8	345,076	1,377,901	9.5	420,285	1,547,505
2031	4,545,709	7.6	345,474	1,353,937	7.8	354,565	1,377,768	9.5	431,842	1,547,356
2032	4,670,716	7.6	354,974	1,351,187	7.8	364,316	1,374,970	9.5	443,718	1,544,214

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 28<sup>th</sup> 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	8.2%	\$300,027	\$ 765,033	10.0%	\$365,887	\$ 956,233	9.1%	\$332,957	\$ 859,704
2024	3,759,490	8.2	308,278	772,372	10.0	375,949	965,406	9.1	342,114	867,951
2025	3,862,876	8.2	316,756	778,954	10.0	386,288	973,632	9.1	351,522	875,347
2026	3,969,105	8.2	325,467	784,690	10.0	396,911	980,802	9.1	361,189	881,793
2027	4,078,255	8.2	334,417	789,486	10.0	407,826	986,797	9.1	371,121	887,183
2028	4,190,407	8.2	343,613	793,239	10.0	419,041	991,488	9.1	381,327	891,401
2029	4,305,643	8.2	353,063	795,839	10.0	430,564	994,737	9.1	391,814	894,322
2030	4,424,048	8.2	362,772	797,165	10.0	442,405	996,394	9.1	402,588	895,812
2031	4,545,709	8.2	372,748	797,088	10.0	454,571	996,298	9.1	413,660	895,726
2032	4,670,716	8.2	382,999	795,469	10.0	467,072	994,275	9.1	425,035	893,907

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	10.7%	\$391,499	\$ 1,027,269	11.8%	\$431,747	\$ 1,147,523	12.3%	\$450,041	\$ 1,194,927
2024	3,759,490	10.7	402,265	1,037,123	11.8	443,620	1,158,531	12.3	462,417	1,206,390
2025	3,862,876	10.7	413,328	1,045,961	11.8	455,819	1,168,403	12.3	475,134	1,216,670
2026	3,969,105	10.7	424,694	1,053,664	11.8	468,354	1,177,007	12.3	488,200	1,225,630
2027	4,078,255	10.7	436,373	1,060,104	11.8	481,234	1,184,201	12.3	501,625	1,233,121
2028	4,190,407	10.7	448,374	1,065,144	11.8	494,468	1,189,831	12.3	515,420	1,238,983
2029	4,305,643	10.7	460,704	1,068,635	11.8	508,066	1,193,730	12.3	529,594	1,243,043
2030	4,424,048	10.7	473,373	1,070,415	11.8	522,038	1,195,719	12.3	544,158	1,245,114
2031	4,545,709	10.7	486,391	1,070,312	11.8	536,394	1,195,604	12.3	559,122	1,244,994
2032	4,670,716	10.7	499,767	1,068,138	11.8	551,144	1,193,176	12.3	574,498	1,242,466

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	13.7%	\$501,265	\$ 1,338,782	14.0%	\$512,242	\$ 1,362,432	15.6%	\$570,784	\$ 1,530,008
2024	3,759,490	13.7	515,050	1,351,624	14.0	526,329	1,375,501	15.6	586,480	1,544,685
2025	3,862,876	13.7	529,214	1,363,141	14.0	540,803	1,387,222	15.6	602,609	1,557,848
2026	3,969,105	13.7	543,767	1,373,179	14.0	555,675	1,397,438	15.6	619,180	1,569,320
2027	4,078,255	13.7	558,721	1,381,572	14.0	570,956	1,405,979	15.6	636,208	1,578,912
2028	4,190,407	13.7	574,086	1,388,140	14.0	586,657	1,412,663	15.6	653,703	1,586,418
2029	4,305,643	13.7	589,873	1,392,689	14.0	602,790	1,417,292	15.6	671,680	1,591,617
2030	4,424,048	13.7	606,095	1,395,009	14.0	619,367	1,419,653	15.6	690,151	1,594,269
2031	4,545,709	13.7	622,762	1,394,875	14.0	636,399	1,419,516	15.6	709,131	1,594,116
2032	4,670,716	13.7	639,888	1,392,042	14.0	653,900	1,416,633	15.6	728,632	1,590,879

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 28<sup>th</sup> 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	6.3%	\$230,509	\$ 765,033	8.1%	\$296,369	\$ 956,233	7.2%	\$263,439	\$ 859,704
2024	3,759,490	6.3	236,848	772,372	8.1	304,519	965,406	7.2	270,683	867,951
2025	3,862,876	6.3	243,361	778,954	8.1	312,893	973,632	7.2	278,127	875,347
2026	3,969,105	6.3	250,054	784,690	8.1	321,498	980,802	7.2	285,776	881,793
2027	4,078,255	6.3	256,930	789,486	8.1	330,339	986,797	7.2	293,634	887,183
2028	4,190,407	6.3	263,996	793,239	8.1	339,423	991,488	7.2	301,709	891,401
2029	4,305,643	6.3	271,256	795,839	8.1	348,757	994,737	7.2	310,006	894,322
2030	4,424,048	6.3	278,715	797,165	8.1	358,348	996,394	7.2	318,531	895,812
2031	4,545,709	6.3	286,380	797,088	8.1	368,202	996,298	7.2	327,291	895,726
2032	4,670,716	6.3	294,255	795,469	8.1	378,328	994,275	7.2	336,292	893,907

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	8.8%	\$321,981	\$ 1,027,269	9.9%	\$362,228	\$ 1,147,523	10.4%	\$380,523	\$ 1,194,927
2024	3,759,490	8.8	330,835	1,037,123	9.9	372,190	1,158,531	10.4	390,987	1,206,390
2025	3,862,876	8.8	339,933	1,045,961	9.9	382,425	1,168,403	10.4	401,739	1,216,670
2026	3,969,105	8.8	349,281	1,053,664	9.9	392,941	1,177,007	10.4	412,787	1,225,630
2027	4,078,255	8.8	358,886	1,060,104	9.9	403,747	1,184,201	10.4	424,139	1,233,121
2028	4,190,407	8.8	368,756	1,065,144	9.9	414,850	1,189,831	10.4	435,802	1,238,983
2029	4,305,643	8.8	378,897	1,068,635	9.9	426,259	1,193,730	10.4	447,787	1,243,043
2030	4,424,048	8.8	389,316	1,070,415	9.9	437,981	1,195,719	10.4	460,101	1,245,114
2031	4,545,709	8.8	400,022	1,070,312	9.9	450,025	1,195,604	10.4	472,754	1,244,994
2032	4,670,716	8.8	411,023	1,068,138	9.9	462,401	1,193,176	10.4	485,754	1,242,466

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	11.8%	\$431,747	\$ 1,338,782	12.1%	\$442,723	\$ 1,362,432	13.7%	\$501,265	\$ 1,530,008
2024	3,759,490	11.8	443,620	1,351,624	12.1	454,898	1,375,501	13.7	515,050	1,544,685
2025	3,862,876	11.8	455,819	1,363,141	12.1	467,408	1,387,222	13.7	529,214	1,557,848
2026	3,969,105	11.8	468,354	1,373,179	12.1	480,262	1,397,438	13.7	543,767	1,569,320
2027	4,078,255	11.8	481,234	1,381,572	12.1	493,469	1,405,979	13.7	558,721	1,578,912
2028	4,190,407	11.8	494,468	1,388,140	12.1	507,039	1,412,663	13.7	574,086	1,586,418
2029	4,305,643	11.8	508,066	1,392,689	12.1	520,983	1,417,292	13.7	589,873	1,591,617
2030	4,424,048	11.8	522,038	1,395,009	12.1	535,310	1,419,653	13.7	606,095	1,594,269
2031	4,545,709	11.8	536,394	1,394,875	12.1	550,031	1,419,516	13.7	622,762	1,594,116
2032	4,670,716	11.8	551,144	1,392,042	12.1	565,157	1,416,633	13.7	639,888	1,590,879

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 28<sup>th</sup> 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	4.4%	\$160,990	\$ 765,033	6.2%	\$226,850	\$ 956,233	5.3%	\$193,920	\$ 859,704
2024	3,759,490	4.4	165,418	772,372	6.2	233,088	965,406	5.3	199,253	867,951
2025	3,862,876	4.4	169,967	778,954	6.2	239,498	973,632	5.3	204,732	875,347
2026	3,969,105	4.4	174,641	784,690	6.2	246,085	980,802	5.3	210,363	881,793
2027	4,078,255	4.4	179,443	789,486	6.2	252,852	986,797	5.3	216,148	887,183
2028	4,190,407	4.4	184,378	793,239	6.2	259,805	991,488	5.3	222,092	891,401
2029	4,305,643	4.4	189,448	795,839	6.2	266,950	994,737	5.3	228,199	894,322
2030	4,424,048	4.4	194,658	797,165	6.2	274,291	996,394	5.3	234,475	895,812
2031	4,545,709	4.4	200,011	797,088	6.2	281,834	996,298	5.3	240,923	895,726
2032	4,670,716	4.4	205,512	795,469	6.2	289,584	994,275	5.3	247,548	893,907

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	6.9%	\$252,462	\$ 1,027,269	8.0%	\$292,710	\$ 1,147,523	8.5%	\$311,004	\$ 1,194,927
2024	3,759,490	6.9	259,405	1,037,123	8.0	300,759	1,158,531	8.5	319,557	1,206,390
2025	3,862,876	6.9	266,538	1,045,961	8.0	309,030	1,168,403	8.5	328,344	1,216,670
2026	3,969,105	6.9	273,868	1,053,664	8.0	317,528	1,177,007	8.5	337,374	1,225,630
2027	4,078,255	6.9	281,400	1,060,104	8.0	326,260	1,184,201	8.5	346,652	1,233,121
2028	4,190,407	6.9	289,138	1,065,144	8.0	335,233	1,189,831	8.5	356,185	1,238,983
2029	4,305,643	6.9	297,089	1,068,635	8.0	344,451	1,193,730	8.5	365,980	1,243,043
2030	4,424,048	6.9	305,259	1,070,415	8.0	353,924	1,195,719	8.5	376,044	1,245,114
2031	4,545,709	6.9	313,654	1,070,312	8.0	363,657	1,195,604	8.5	386,385	1,244,994
2032	4,670,716	6.9	322,279	1,068,138	8.0	373,657	1,193,176	8.5	397,011	1,242,466

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	9.9%	\$362,228	\$ 1,338,782	10.2%	\$373,205	\$ 1,362,432	11.8%	\$431,747	\$ 1,530,008
2024	3,759,490	9.9	372,190	1,351,624	10.2	383,468	1,375,501	11.8	443,620	1,544,685
2025	3,862,876	9.9	382,425	1,363,141	10.2	394,013	1,387,222	11.8	455,819	1,557,848
2026	3,969,105	9.9	392,941	1,373,179	10.2	404,849	1,397,438	11.8	468,354	1,569,320
2027	4,078,255	9.9	403,747	1,381,572	10.2	415,982	1,405,979	11.8	481,234	1,578,912
2028	4,190,407	9.9	414,850	1,388,140	10.2	427,422	1,412,663	11.8	494,468	1,586,418
2029	4,305,643	9.9	426,259	1,392,689	10.2	439,176	1,417,292	11.8	508,066	1,591,617
2030	4,424,048	9.9	437,981	1,395,009	10.2	451,253	1,419,653	11.8	522,038	1,594,269
2031	4,545,709	9.9	450,025	1,394,875	10.2	463,662	1,419,516	11.8	536,394	1,594,116
2032	4,670,716	9.9	462,401	1,392,042	10.2	476,413	1,416,633	11.8	551,144	1,590,879

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 28<sup>th</sup> 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	2.5%	\$91,472	\$ 765,033	4.3%	\$157,331	\$ 956,233	3.4%	\$124,402	\$ 859,704
2024	3,759,490	2.5	93,987	772,372	4.3	161,658	965,406	3.4	127,823	867,951
2025	3,862,876	2.5	96,572	778,954	4.3	166,104	973,632	3.4	131,338	875,347
2026	3,969,105	2.5	99,228	784,690	4.3	170,672	980,802	3.4	134,950	881,793
2027	4,078,255	2.5	101,956	789,486	4.3	175,365	986,797	3.4	138,661	887,183
2028	4,190,407	2.5	104,760	793,239	4.3	180,188	991,488	3.4	142,474	891,401
2029	4,305,643	2.5	107,641	795,839	4.3	185,143	994,737	3.4	146,392	894,322
2030	4,424,048	2.5	110,601	797,165	4.3	190,234	996,394	3.4	150,418	895,812
2031	4,545,709	2.5	113,643	797,088	4.3	195,465	996,298	3.4	154,554	895,726
2032	4,670,716	2.5	116,768	795,469	4.3	200,841	994,275	3.4	158,804	893,907

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	5.0%	\$182,944	\$ 1,027,269	6.1%	\$223,191	\$ 1,147,523	6.6%	\$241,485	\$ 1,194,927
2024	3,759,490	5.0	187,975	1,037,123	6.1	229,329	1,158,531	6.6	248,126	1,206,390
2025	3,862,876	5.0	193,144	1,045,961	6.1	235,635	1,168,403	6.6	254,950	1,216,670
2026	3,969,105	5.0	198,455	1,053,664	6.1	242,115	1,177,007	6.6	261,961	1,225,630
2027	4,078,255	5.0	203,913	1,060,104	6.1	248,774	1,184,201	6.6	269,165	1,233,121
2028	4,190,407	5.0	209,520	1,065,144	6.1	255,615	1,189,831	6.6	276,567	1,238,983
2029	4,305,643	5.0	215,282	1,068,635	6.1	262,644	1,193,730	6.6	284,172	1,243,043
2030	4,424,048	5.0	221,202	1,070,415	6.1	269,867	1,195,719	6.6	291,987	1,245,114
2031	4,545,709	5.0	227,285	1,070,312	6.1	277,288	1,195,604	6.6	300,017	1,244,994
2032	4,670,716	5.0	233,536	1,068,138	6.1	284,914	1,193,176	6.6	308,267	1,242,466

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	8.0%	\$292,710	\$ 1,338,782	8.3%	\$303,686	\$ 1,362,432	9.9%	\$362,228	\$ 1,530,008
2024	3,759,490	8.0	300,759	1,351,624	8.3	312,038	1,375,501	9.9	372,190	1,544,685
2025	3,862,876	8.0	309,030	1,363,141	8.3	320,619	1,387,222	9.9	382,425	1,557,848
2026	3,969,105	8.0	317,528	1,373,179	8.3	329,436	1,397,438	9.9	392,941	1,569,320
2027	4,078,255	8.0	326,260	1,381,572	8.3	338,495	1,405,979	9.9	403,747	1,578,912
2028	4,190,407	8.0	335,233	1,388,140	8.3	347,804	1,412,663	9.9	414,850	1,586,418
2029	4,305,643	8.0	344,451	1,392,689	8.3	357,368	1,417,292	9.9	426,259	1,591,617
2030	4,424,048	8.0	353,924	1,395,009	8.3	367,196	1,419,653	9.9	437,981	1,594,269
2031	4,545,709	8.0	363,657	1,394,875	8.3	377,294	1,419,516	9.9	450,025	1,594,116
2032	4,670,716	8.0	373,657	1,392,042	8.3	387,669	1,416,633	9.9	462,401	1,590,879

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 28<sup>th</sup> 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	8.4%	\$307,345	\$ 741,577	10.3%	\$376,864	\$ 927,152	9.9%	\$362,228	\$ 927,151
2024	3,759,490	8.4	315,797	748,691	10.3	387,227	936,046	9.9	372,190	936,045
2025	3,862,876	8.4	324,482	755,071	10.3	397,876	944,022	9.9	382,425	944,021
2026	3,969,105	8.4	333,405	760,632	10.3	408,818	950,974	9.9	392,941	950,973
2027	4,078,255	8.4	342,573	765,281	10.3	420,060	956,787	9.9	403,747	956,786
2028	4,190,407	8.4	351,994	768,919	10.3	431,612	961,336	9.9	414,850	961,335
2029	4,305,643	8.4	361,674	771,439	10.3	443,481	964,486	9.9	426,259	964,485
2030	4,424,048	8.4	371,620	772,724	10.3	455,677	966,093	9.9	437,981	966,092
2031	4,545,709	8.4	381,840	772,650	10.3	468,208	966,000	9.9	450,025	965,999
2032	4,670,716	8.4	392,340	771,081	10.3	481,084	964,038	9.9	462,401	964,037

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	11.4%	\$417,111	\$ 1,066,267	12.1%	\$442,723	\$ 1,112,479	12.8%	\$468,335	\$ 1,205,178
2024	3,759,490	11.4	428,582	1,076,495	12.1	454,898	1,123,151	12.8	481,215	1,216,739
2025	3,862,876	11.4	440,368	1,085,668	12.1	467,408	1,132,722	12.8	494,448	1,227,107
2026	3,969,105	11.4	452,478	1,093,663	12.1	480,262	1,141,064	12.8	508,045	1,236,144
2027	4,078,255	11.4	464,921	1,100,348	12.1	493,469	1,148,038	12.8	522,017	1,243,700
2028	4,190,407	11.4	477,706	1,105,579	12.1	507,039	1,153,496	12.8	536,372	1,249,613
2029	4,305,643	11.4	490,843	1,109,202	12.1	520,983	1,157,276	12.8	551,122	1,253,708
2030	4,424,048	11.4	504,341	1,111,050	12.1	535,310	1,159,204	12.8	566,278	1,255,797
2031	4,545,709	11.4	518,211	1,110,943	12.1	550,031	1,159,092	12.8	581,851	1,255,676
2032	4,670,716	11.4	532,462	1,108,687	12.1	565,157	1,156,738	12.8	597,852	1,253,126

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	14.0%	\$512,242	\$ 1,297,881	14.3%	\$523,219	\$ 1,344,245	16.0%	\$585,419	\$ 1,483,322
2024	3,759,490	14.0	526,329	1,310,331	14.3	537,607	1,357,140	16.0	601,518	1,497,551
2025	3,862,876	14.0	540,803	1,321,497	14.3	552,391	1,368,704	16.0	618,060	1,510,312
2026	3,969,105	14.0	555,675	1,331,229	14.3	567,582	1,378,783	16.0	635,057	1,521,434
2027	4,078,255	14.0	570,956	1,339,366	14.3	583,190	1,387,210	16.0	652,521	1,530,733
2028	4,190,407	14.0	586,657	1,345,734	14.3	599,228	1,393,805	16.0	670,465	1,538,010
2029	4,305,643	14.0	602,790	1,350,144	14.3	615,707	1,398,373	16.0	688,903	1,543,050
2030	4,424,048	14.0	619,367	1,352,394	14.3	632,639	1,400,703	16.0	707,848	1,545,621
2031	4,545,709	14.0	636,399	1,352,264	14.3	650,036	1,400,568	16.0	727,313	1,545,472
2032	4,670,716	14.0	653,900	1,349,518	14.3	667,912	1,397,724	16.0	747,315	1,542,333

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 28<sup>th</sup> 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	6.5%	\$237,827	\$ 741,577	8.4%	\$307,345	\$ 927,152	8.0%	\$292,710	\$ 927,151
2024	3,759,490	6.5	244,367	748,691	8.4	315,797	936,046	8.0	300,759	936,045
2025	3,862,876	6.5	251,087	755,071	8.4	324,482	944,022	8.0	309,030	944,021
2026	3,969,105	6.5	257,992	760,632	8.4	333,405	950,974	8.0	317,528	950,973
2027	4,078,255	6.5	265,087	765,281	8.4	342,573	956,787	8.0	326,260	956,786
2028	4,190,407	6.5	272,376	768,919	8.4	351,994	961,336	8.0	335,233	961,335
2029	4,305,643	6.5	279,867	771,439	8.4	361,674	964,486	8.0	344,451	964,485
2030	4,424,048	6.5	287,563	772,724	8.4	371,620	966,093	8.0	353,924	966,092
2031	4,545,709	6.5	295,471	772,650	8.4	381,840	966,000	8.0	363,657	965,999
2032	4,670,716	6.5	303,597	771,081	8.4	392,340	964,038	8.0	373,657	964,037

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	9.5%	\$347,593	\$ 1,066,267	10.2%	\$373,205	\$ 1,112,479	10.9%	\$398,817	\$ 1,205,178
2024	3,759,490	9.5	357,152	1,076,495	10.2	383,468	1,123,151	10.9	409,784	1,216,739
2025	3,862,876	9.5	366,973	1,085,668	10.2	394,013	1,132,722	10.9	421,053	1,227,107
2026	3,969,105	9.5	377,065	1,093,663	10.2	404,849	1,141,064	10.9	432,632	1,236,144
2027	4,078,255	9.5	387,434	1,100,348	10.2	415,982	1,148,038	10.9	444,530	1,243,700
2028	4,190,407	9.5	398,089	1,105,579	10.2	427,422	1,153,496	10.9	456,754	1,249,613
2029	4,305,643	9.5	409,036	1,109,202	10.2	439,176	1,157,276	10.9	469,315	1,253,708
2030	4,424,048	9.5	420,285	1,111,050	10.2	451,253	1,159,204	10.9	482,221	1,255,797
2031	4,545,709	9.5	431,842	1,110,943	10.2	463,662	1,159,092	10.9	495,482	1,255,676
2032	4,670,716	9.5	443,718	1,108,687	10.2	476,413	1,156,738	10.9	509,108	1,253,126

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	12.1%	\$442,723	\$ 1,297,881	12.4%	\$453,700	\$ 1,344,245	14.1%	\$515,901	\$ 1,483,322
2024	3,759,490	12.1	454,898	1,310,331	12.4	466,177	1,357,140	14.1	530,088	1,497,551
2025	3,862,876	12.1	467,408	1,321,497	12.4	478,997	1,368,704	14.1	544,666	1,510,312
2026	3,969,105	12.1	480,262	1,331,229	12.4	492,169	1,378,783	14.1	559,644	1,521,434
2027	4,078,255	12.1	493,469	1,339,366	12.4	505,704	1,387,210	14.1	575,034	1,530,733
2028	4,190,407	12.1	507,039	1,345,734	12.4	519,610	1,393,805	14.1	590,847	1,538,010
2029	4,305,643	12.1	520,983	1,350,144	12.4	533,900	1,398,373	14.1	607,096	1,543,050
2030	4,424,048	12.1	535,310	1,352,394	12.4	548,582	1,400,703	14.1	623,791	1,545,621
2031	4,545,709	12.1	550,031	1,352,264	12.4	563,668	1,400,568	14.1	640,945	1,545,472
2032	4,670,716	12.1	565,157	1,349,518	12.4	579,169	1,397,724	14.1	658,571	1,542,333

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 28<sup>th</sup> 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	4.6%	\$168,308	\$ 741,577	6.5%	\$237,827	\$ 927,152	6.1%	\$223,191	\$ 927,151
2024	3,759,490	4.6	172,937	748,691	6.5	244,367	936,046	6.1	229,329	936,045
2025	3,862,876	4.6	177,692	755,071	6.5	251,087	944,022	6.1	235,635	944,021
2026	3,969,105	4.6	182,579	760,632	6.5	257,992	950,974	6.1	242,115	950,973
2027	4,078,255	4.6	187,600	765,281	6.5	265,087	956,787	6.1	248,774	956,786
2028	4,190,407	4.6	192,759	768,919	6.5	272,376	961,336	6.1	255,615	961,335
2029	4,305,643	4.6	198,060	771,439	6.5	279,867	964,486	6.1	262,644	964,485
2030	4,424,048	4.6	203,506	772,724	6.5	287,563	966,093	6.1	269,867	966,092
2031	4,545,709	4.6	209,103	772,650	6.5	295,471	966,000	6.1	277,288	965,999
2032	4,670,716	4.6	214,853	771,081	6.5	303,597	964,038	6.1	284,914	964,037

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	7.6%	\$278,074	\$ 1,066,267	8.3%	\$303,686	\$ 1,112,479	9.0%	\$329,298	\$ 1,205,178
2024	3,759,490	7.6	285,721	1,076,495	8.3	312,038	1,123,151	9.0	338,354	1,216,739
2025	3,862,876	7.6	293,579	1,085,668	8.3	320,619	1,132,722	9.0	347,659	1,227,107
2026	3,969,105	7.6	301,652	1,093,663	8.3	329,436	1,141,064	9.0	357,219	1,236,144
2027	4,078,255	7.6	309,947	1,100,348	8.3	338,495	1,148,038	9.0	367,043	1,243,700
2028	4,190,407	7.6	318,471	1,105,579	8.3	347,804	1,153,496	9.0	377,137	1,249,613
2029	4,305,643	7.6	327,229	1,109,202	8.3	357,368	1,157,276	9.0	387,508	1,253,708
2030	4,424,048	7.6	336,228	1,111,050	8.3	367,196	1,159,204	9.0	398,164	1,255,797
2031	4,545,709	7.6	345,474	1,110,943	8.3	377,294	1,159,092	9.0	409,114	1,255,676
2032	4,670,716	7.6	354,974	1,108,687	8.3	387,669	1,156,738	9.0	420,364	1,253,126

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	10.2%	\$373,205	\$ 1,297,881	10.5%	\$384,181	\$ 1,344,245	12.2%	\$446,382	\$ 1,483,322
2024	3,759,490	10.2	383,468	1,310,331	10.5	394,746	1,357,140	12.2	458,658	1,497,551
2025	3,862,876	10.2	394,013	1,321,497	10.5	405,602	1,368,704	12.2	471,271	1,510,312
2026	3,969,105	10.2	404,849	1,331,229	10.5	416,756	1,378,783	12.2	484,231	1,521,434
2027	4,078,255	10.2	415,982	1,339,366	10.5	428,217	1,387,210	12.2	497,547	1,530,733
2028	4,190,407	10.2	427,422	1,345,734	10.5	439,993	1,393,805	12.2	511,230	1,538,010
2029	4,305,643	10.2	439,176	1,350,144	10.5	452,093	1,398,373	12.2	525,288	1,543,050
2030	4,424,048	10.2	451,253	1,352,394	10.5	464,525	1,400,703	12.2	539,734	1,545,621
2031	4,545,709	10.2	463,662	1,352,264	10.5	477,299	1,400,568	12.2	554,576	1,545,472
2032	4,670,716	10.2	476,413	1,349,518	10.5	490,425	1,397,724	12.2	569,827	1,542,333

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 28<sup>th</sup> 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	2.7%	\$98,790	\$ 741,577	4.6%	\$168,308	\$ 927,152	4.2%	\$153,673	\$ 927,151
2024	3,759,490	2.7	101,506	748,691	4.6	172,937	936,046	4.2	157,899	936,045
2025	3,862,876	2.7	104,298	755,071	4.6	177,692	944,022	4.2	162,241	944,021
2026	3,969,105	2.7	107,166	760,632	4.6	182,579	950,974	4.2	166,702	950,973
2027	4,078,255	2.7	110,113	765,281	4.6	187,600	956,787	4.2	171,287	956,786
2028	4,190,407	2.7	113,141	768,919	4.6	192,759	961,336	4.2	175,997	961,335
2029	4,305,643	2.7	116,252	771,439	4.6	198,060	964,486	4.2	180,837	964,485
2030	4,424,048	2.7	119,449	772,724	4.6	203,506	966,093	4.2	185,810	966,092
2031	4,545,709	2.7	122,734	772,650	4.6	209,103	966,000	4.2	190,920	965,999
2032	4,670,716	2.7	126,109	771,081	4.6	214,853	964,038	4.2	196,170	964,037

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	5.7%	\$208,556	\$ 1,066,267	6.4%	\$234,168	\$ 1,112,479	7.1%	\$259,780	\$ 1,205,178
2024	3,759,490	5.7	214,291	1,076,495	6.4	240,607	1,123,151	7.1	266,924	1,216,739
2025	3,862,876	5.7	220,184	1,085,668	6.4	247,224	1,132,722	7.1	274,264	1,227,107
2026	3,969,105	5.7	226,239	1,093,663	6.4	254,023	1,141,064	7.1	281,806	1,236,144
2027	4,078,255	5.7	232,461	1,100,348	6.4	261,008	1,148,038	7.1	289,556	1,243,700
2028	4,190,407	5.7	238,853	1,105,579	6.4	268,186	1,153,496	7.1	297,519	1,249,613
2029	4,305,643	5.7	245,422	1,109,202	6.4	275,561	1,157,276	7.1	305,701	1,253,708
2030	4,424,048	5.7	252,171	1,111,050	6.4	283,139	1,159,204	7.1	314,107	1,255,797
2031	4,545,709	5.7	259,105	1,110,943	6.4	290,925	1,159,092	7.1	322,745	1,255,676
2032	4,670,716	5.7	266,231	1,108,687	6.4	298,926	1,156,738	7.1	331,621	1,253,126

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	8.3%	\$303,686	\$ 1,297,881	8.6%	\$314,663	\$ 1,344,245	10.3%	\$376,864	\$ 1,483,322
2024	3,759,490	8.3	312,038	1,310,331	8.6	323,316	1,357,140	10.3	387,227	1,497,551
2025	3,862,876	8.3	320,619	1,321,497	8.6	332,207	1,368,704	10.3	397,876	1,510,312
2026	3,969,105	8.3	329,436	1,331,229	8.6	341,343	1,378,783	10.3	408,818	1,521,434
2027	4,078,255	8.3	338,495	1,339,366	8.6	350,730	1,387,210	10.3	420,060	1,530,733
2028	4,190,407	8.3	347,804	1,345,734	8.6	360,375	1,393,805	10.3	431,612	1,538,010
2029	4,305,643	8.3	357,368	1,350,144	8.6	370,285	1,398,373	10.3	443,481	1,543,050
2030	4,424,048	8.3	367,196	1,352,394	8.6	380,468	1,400,703	10.3	455,677	1,545,621
2031	4,545,709	8.3	377,294	1,352,264	8.6	390,931	1,400,568	10.3	468,208	1,545,472
2032	4,670,716	8.3	387,669	1,349,518	8.6	401,682	1,397,724	10.3	481,084	1,542,333

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 28<sup>th</sup> 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	8.6%	\$314,663	\$ 765,319	10.6%	\$387,840	\$ 956,622	10.1%	\$369,546	\$ 957,421
2024	3,759,490	8.6	323,316	772,660	10.6	398,506	965,799	10.1	379,708	966,605
2025	3,862,876	8.6	332,207	779,244	10.6	409,465	974,029	10.1	390,150	974,842
2026	3,969,105	8.6	341,343	784,983	10.6	420,725	981,202	10.1	400,880	982,021
2027	4,078,255	8.6	350,730	789,781	10.6	432,295	987,199	10.1	411,904	988,023
2028	4,190,407	8.6	360,375	793,536	10.6	444,183	991,892	10.1	423,231	992,720
2029	4,305,643	8.6	370,285	796,136	10.6	456,398	995,143	10.1	434,870	995,973
2030	4,424,048	8.6	380,468	797,462	10.6	468,949	996,801	10.1	446,829	997,632
2031	4,545,709	8.6	390,931	797,385	10.6	481,845	996,705	10.1	459,117	997,536
2032	4,670,716	8.6	401,682	795,766	10.6	495,096	994,681	10.1	471,742	995,510

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	11.8%	\$431,747	\$ 1,100,797	12.4%	\$453,700	\$ 1,147,949	13.3%	\$486,630	\$ 1,244,090
2024	3,759,490	11.8	443,620	1,111,357	12.4	466,177	1,158,961	13.3	500,012	1,256,024
2025	3,862,876	11.8	455,819	1,120,827	12.4	478,997	1,168,837	13.3	513,763	1,266,727
2026	3,969,105	11.8	468,354	1,129,081	12.4	492,169	1,177,445	13.3	527,891	1,276,055
2027	4,078,255	11.8	481,234	1,135,982	12.4	505,704	1,184,642	13.3	542,408	1,283,855
2028	4,190,407	11.8	494,468	1,141,383	12.4	519,610	1,190,274	13.3	557,324	1,289,959
2029	4,305,643	11.8	508,066	1,145,123	12.4	533,900	1,194,175	13.3	572,651	1,294,186
2030	4,424,048	11.8	522,038	1,147,031	12.4	548,582	1,196,165	13.3	588,398	1,296,342
2031	4,545,709	11.8	536,394	1,146,921	12.4	563,668	1,196,050	13.3	604,579	1,296,217
2032	4,670,716	11.8	551,144	1,144,592	12.4	579,169	1,193,621	13.3	621,205	1,293,585

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	14.4%	\$526,877	\$ 1,339,295	14.8%	\$541,513	\$ 1,387,344	16.4%	\$600,055	\$ 1,530,655
2024	3,759,490	14.4	541,367	1,352,142	14.8	556,405	1,400,652	16.4	616,556	1,545,338
2025	3,862,876	14.4	556,254	1,363,664	14.8	571,706	1,412,587	16.4	633,512	1,558,506
2026	3,969,105	14.4	571,551	1,373,706	14.8	587,428	1,422,990	16.4	650,933	1,569,983
2027	4,078,255	14.4	587,269	1,382,102	14.8	603,582	1,431,688	16.4	668,834	1,579,579
2028	4,190,407	14.4	603,419	1,388,673	14.8	620,180	1,438,494	16.4	687,227	1,587,089
2029	4,305,643	14.4	620,013	1,393,224	14.8	637,235	1,443,208	16.4	706,125	1,592,290
2030	4,424,048	14.4	637,063	1,395,545	14.8	654,759	1,445,613	16.4	725,544	1,594,943
2031	4,545,709	14.4	654,582	1,395,411	14.8	672,765	1,445,474	16.4	745,496	1,594,790
2032	4,670,716	14.4	672,583	1,392,577	14.8	691,266	1,442,538	16.4	765,997	1,591,551

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 28<sup>th</sup> 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	6.7%	\$245,144	\$ 765,319	8.7%	\$318,322	\$ 956,622	8.2%	\$300,027	\$ 957,421
2024	3,759,490	6.7	251,886	772,660	8.7	327,076	965,799	8.2	308,278	966,605
2025	3,862,876	6.7	258,813	779,244	8.7	336,070	974,029	8.2	316,756	974,842
2026	3,969,105	6.7	265,930	784,983	8.7	345,312	981,202	8.2	325,467	982,021
2027	4,078,255	6.7	273,243	789,781	8.7	354,808	987,199	8.2	334,417	988,023
2028	4,190,407	6.7	280,757	793,536	8.7	364,565	991,892	8.2	343,613	992,720
2029	4,305,643	6.7	288,478	796,136	8.7	374,591	995,143	8.2	353,063	995,973
2030	4,424,048	6.7	296,411	797,462	8.7	384,892	996,801	8.2	362,772	997,632
2031	4,545,709	6.7	304,563	797,385	8.7	395,477	996,705	8.2	372,748	997,536
2032	4,670,716	6.7	312,938	795,766	8.7	406,352	994,681	8.2	382,999	995,510

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	9.9%	\$362,228	\$ 1,100,797	10.5%	\$384,181	\$ 1,147,949	11.4%	\$417,111	\$ 1,244,090
2024	3,759,490	9.9	372,190	1,111,357	10.5	394,746	1,158,961	11.4	428,582	1,256,024
2025	3,862,876	9.9	382,425	1,120,827	10.5	405,602	1,168,837	11.4	440,368	1,266,727
2026	3,969,105	9.9	392,941	1,129,081	10.5	416,756	1,177,445	11.4	452,478	1,276,055
2027	4,078,255	9.9	403,747	1,135,982	10.5	428,217	1,184,642	11.4	464,921	1,283,855
2028	4,190,407	9.9	414,850	1,141,383	10.5	439,993	1,190,274	11.4	477,706	1,289,959
2029	4,305,643	9.9	426,259	1,145,123	10.5	452,093	1,194,175	11.4	490,843	1,294,186
2030	4,424,048	9.9	437,981	1,147,031	10.5	464,525	1,196,165	11.4	504,341	1,296,342
2031	4,545,709	9.9	450,025	1,146,921	10.5	477,299	1,196,050	11.4	518,211	1,296,217
2032	4,670,716	9.9	462,401	1,144,592	10.5	490,425	1,193,621	11.4	532,462	1,293,585

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	12.5%	\$457,359	\$ 1,339,295	12.9%	\$471,994	\$ 1,387,344	14.5%	\$530,536	\$ 1,530,655
2024	3,759,490	12.5	469,936	1,352,142	12.9	484,974	1,400,652	14.5	545,126	1,545,338
2025	3,862,876	12.5	482,860	1,363,664	12.9	498,311	1,412,587	14.5	560,117	1,558,506
2026	3,969,105	12.5	496,138	1,373,706	12.9	512,015	1,422,990	14.5	575,520	1,569,983
2027	4,078,255	12.5	509,782	1,382,102	12.9	526,095	1,431,688	14.5	591,347	1,579,579
2028	4,190,407	12.5	523,801	1,388,673	12.9	540,563	1,438,494	14.5	607,609	1,587,089
2029	4,305,643	12.5	538,205	1,393,224	12.9	555,428	1,443,208	14.5	624,318	1,592,290
2030	4,424,048	12.5	553,006	1,395,545	12.9	570,702	1,445,613	14.5	641,487	1,594,943
2031	4,545,709	12.5	568,214	1,395,411	12.9	586,396	1,445,474	14.5	659,128	1,594,790
2032	4,670,716	12.5	583,840	1,392,577	12.9	602,522	1,442,538	14.5	677,254	1,591,551

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 28<sup>th</sup> 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	4.8%	\$175,626	\$ 765,319	6.8%	\$248,803	\$ 956,622	6.3%	\$230,509	\$ 957,421
2024	3,759,490	4.8	180,456	772,660	6.8	255,645	965,799	6.3	236,848	966,605
2025	3,862,876	4.8	185,418	779,244	6.8	262,676	974,029	6.3	243,361	974,842
2026	3,969,105	4.8	190,517	784,983	6.8	269,899	981,202	6.3	250,054	982,021
2027	4,078,255	4.8	195,756	789,781	6.8	277,321	987,199	6.3	256,930	988,023
2028	4,190,407	4.8	201,140	793,536	6.8	284,948	991,892	6.3	263,996	992,720
2029	4,305,643	4.8	206,671	796,136	6.8	292,784	995,143	6.3	271,256	995,973
2030	4,424,048	4.8	212,354	797,462	6.8	300,835	996,801	6.3	278,715	997,632
2031	4,545,709	4.8	218,194	797,385	6.8	309,108	996,705	6.3	286,380	997,536
2032	4,670,716	4.8	224,194	795,766	6.8	317,609	994,681	6.3	294,255	995,510

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	8.0%	\$292,710	\$ 1,100,797	8.6%	\$314,663	\$ 1,147,949	9.5%	\$347,593	\$ 1,244,090
2024	3,759,490	8.0	300,759	1,111,357	8.6	323,316	1,158,961	9.5	357,152	1,256,024
2025	3,862,876	8.0	309,030	1,120,827	8.6	332,207	1,168,837	9.5	366,973	1,266,727
2026	3,969,105	8.0	317,528	1,129,081	8.6	341,343	1,177,445	9.5	377,065	1,276,055
2027	4,078,255	8.0	326,260	1,135,982	8.6	350,730	1,184,642	9.5	387,434	1,283,855
2028	4,190,407	8.0	335,233	1,141,383	8.6	360,375	1,190,274	9.5	398,089	1,289,959
2029	4,305,643	8.0	344,451	1,145,123	8.6	370,285	1,194,175	9.5	409,036	1,294,186
2030	4,424,048	8.0	353,924	1,147,031	8.6	380,468	1,196,165	9.5	420,285	1,296,342
2031	4,545,709	8.0	363,657	1,146,921	8.6	390,931	1,196,050	9.5	431,842	1,296,217
2032	4,670,716	8.0	373,657	1,144,592	8.6	401,682	1,193,621	9.5	443,718	1,293,585

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	10.6%	\$387,840	\$ 1,339,295	11.0%	\$402,476	\$ 1,387,344	12.6%	\$461,018	\$ 1,530,655
2024	3,759,490	10.6	398,506	1,352,142	11.0	413,544	1,400,652	12.6	473,696	1,545,338
2025	3,862,876	10.6	409,465	1,363,664	11.0	424,916	1,412,587	12.6	486,722	1,558,506
2026	3,969,105	10.6	420,725	1,373,706	11.0	436,602	1,422,990	12.6	500,107	1,569,983
2027	4,078,255	10.6	432,295	1,382,102	11.0	448,608	1,431,688	12.6	513,860	1,579,579
2028	4,190,407	10.6	444,183	1,388,673	11.0	460,945	1,438,494	12.6	527,991	1,587,089
2029	4,305,643	10.6	456,398	1,393,224	11.0	473,621	1,443,208	12.6	542,511	1,592,290
2030	4,424,048	10.6	468,949	1,395,545	11.0	486,645	1,445,613	12.6	557,430	1,594,943
2031	4,545,709	10.6	481,845	1,395,411	11.0	500,028	1,445,474	12.6	572,759	1,594,790
2032	4,670,716	10.6	495,096	1,392,577	11.0	513,779	1,442,538	12.6	588,510	1,591,551

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 28<sup>th</sup> 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	2.9%	\$106,107	\$ 765,319	4.9%	\$179,285	\$ 956,622	4.4%	\$160,990	\$ 957,421
2024	3,759,490	2.9	109,025	772,660	4.9	184,215	965,799	4.4	165,418	966,605
2025	3,862,876	2.9	112,023	779,244	4.9	189,281	974,029	4.4	169,967	974,842
2026	3,969,105	2.9	115,104	784,983	4.9	194,486	981,202	4.4	174,641	982,021
2027	4,078,255	2.9	118,269	789,781	4.9	199,834	987,199	4.4	179,443	988,023
2028	4,190,407	2.9	121,522	793,536	4.9	205,330	991,892	4.4	184,378	992,720
2029	4,305,643	2.9	124,864	796,136	4.9	210,977	995,143	4.4	189,448	995,973
2030	4,424,048	2.9	128,297	797,462	4.9	216,778	996,801	4.4	194,658	997,632
2031	4,545,709	2.9	131,826	797,385	4.9	222,740	996,705	4.4	200,011	997,536
2032	4,670,716	2.9	135,451	795,766	4.9	228,865	994,681	4.4	205,512	995,510

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	6.1%	\$223,191	\$ 1,100,797	6.7%	\$245,144	\$ 1,147,949	7.6%	\$278,074	\$ 1,244,090
2024	3,759,490	6.1	229,329	1,111,357	6.7	251,886	1,158,961	7.6	285,721	1,256,024
2025	3,862,876	6.1	235,635	1,120,827	6.7	258,813	1,168,837	7.6	293,579	1,266,727
2026	3,969,105	6.1	242,115	1,129,081	6.7	265,930	1,177,445	7.6	301,652	1,276,055
2027	4,078,255	6.1	248,774	1,135,982	6.7	273,243	1,184,642	7.6	309,947	1,283,855
2028	4,190,407	6.1	255,615	1,141,383	6.7	280,757	1,190,274	7.6	318,471	1,289,959
2029	4,305,643	6.1	262,644	1,145,123	6.7	288,478	1,194,175	7.6	327,229	1,294,186
2030	4,424,048	6.1	269,867	1,147,031	6.7	296,411	1,196,165	7.6	336,228	1,296,342
2031	4,545,709	6.1	277,288	1,146,921	6.7	304,563	1,196,050	7.6	345,474	1,296,217
2032	4,670,716	6.1	284,914	1,144,592	6.7	312,938	1,193,621	7.6	354,974	1,293,585

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	8.7%	\$318,322	\$ 1,339,295	9.1%	\$332,957	\$ 1,387,344	10.7%	\$391,499	\$ 1,530,655
2024	3,759,490	8.7	327,076	1,352,142	9.1	342,114	1,400,652	10.7	402,265	1,545,338
2025	3,862,876	8.7	336,070	1,363,664	9.1	351,522	1,412,587	10.7	413,328	1,558,506
2026	3,969,105	8.7	345,312	1,373,706	9.1	361,189	1,422,990	10.7	424,694	1,569,983
2027	4,078,255	8.7	354,808	1,382,102	9.1	371,121	1,431,688	10.7	436,373	1,579,579
2028	4,190,407	8.7	364,565	1,388,673	9.1	381,327	1,438,494	10.7	448,374	1,587,089
2029	4,305,643	8.7	374,591	1,393,224	9.1	391,814	1,443,208	10.7	460,704	1,592,290
2030	4,424,048	8.7	384,892	1,395,545	9.1	402,588	1,445,613	10.7	473,373	1,594,943
2031	4,545,709	8.7	395,477	1,395,411	9.1	413,660	1,445,474	10.7	486,391	1,594,790
2032	4,670,716	8.7	406,352	1,392,577	9.1	425,035	1,442,538	10.7	499,767	1,591,551

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 28<sup>th</sup> 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	10.0%	\$474,144	\$ 811,484	12.2%	\$578,455	\$ 1,014,340	12.2%	\$578,455	\$ 980,520
2024	4,871,824	10.0	487,182	819,268	12.2	594,363	1,024,070	12.2	594,363	989,926
2025	5,005,799	10.0	500,580	826,249	12.2	610,707	1,032,796	12.2	610,707	998,361
2026	5,143,458	10.0	514,346	832,334	12.2	627,502	1,040,402	12.2	627,502	1,005,713
2027	5,284,903	10.0	528,490	837,421	12.2	644,758	1,046,761	12.2	644,758	1,011,860
2028	5,430,238	10.0	543,024	841,402	12.2	662,489	1,051,737	12.2	662,489	1,016,671
2029	5,579,570	10.0	557,957	844,159	12.2	680,708	1,055,184	12.2	680,708	1,020,003
2030	5,733,008	10.0	573,301	845,565	12.2	699,427	1,056,942	12.2	699,427	1,021,702
2031	5,890,666	10.0	589,067	845,484	12.2	718,661	1,056,840	12.2	718,661	1,021,604
2032	6,052,659	10.0	605,266	843,767	12.2	738,424	1,054,694	12.2	738,424	1,019,529

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	13.9%	\$659,059	\$ 1,141,196	14.5%	\$687,508	\$ 1,217,192	15.6%	\$739,664	\$ 1,301,720
2024	4,871,824	13.9	677,184	1,152,143	14.5	706,414	1,228,868	15.6	760,005	1,314,207
2025	5,005,799	13.9	695,806	1,161,961	14.5	725,841	1,239,339	15.6	780,905	1,325,406
2026	5,143,458	13.9	714,941	1,170,518	14.5	745,801	1,248,466	15.6	802,379	1,335,167
2027	5,284,903	13.9	734,602	1,177,672	14.5	766,311	1,256,097	15.6	824,445	1,343,328
2028	5,430,238	13.9	754,803	1,183,271	14.5	787,385	1,262,069	15.6	847,117	1,349,714
2029	5,579,570	13.9	775,560	1,187,149	14.5	809,038	1,266,205	15.6	870,413	1,354,137
2030	5,733,008	13.9	796,888	1,189,127	14.5	831,286	1,268,315	15.6	894,349	1,356,393
2031	5,890,666	13.9	818,803	1,189,013	14.5	854,147	1,268,193	15.6	918,944	1,356,262
2032	6,052,659	13.9	841,320	1,186,598	14.5	877,636	1,265,618	15.6	944,215	1,353,508

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	16.7%	\$791,820	\$ 1,420,144	17.3%	\$820,268	\$ 1,462,434	18.9%	\$896,131	\$ 1,622,881
2024	4,871,824	16.7	813,595	1,433,767	17.3	842,826	1,476,463	18.9	920,775	1,638,449
2025	5,005,799	16.7	835,968	1,445,984	17.3	866,003	1,489,044	18.9	946,096	1,652,411
2026	5,143,458	16.7	858,957	1,456,633	17.3	889,818	1,500,010	18.9	972,114	1,664,580
2027	5,284,903	16.7	882,579	1,465,536	17.3	914,288	1,509,178	18.9	998,847	1,674,754
2028	5,430,238	16.7	906,850	1,472,503	17.3	939,431	1,516,353	18.9	1,026,315	1,682,716
2029	5,579,570	16.7	931,788	1,477,329	17.3	965,266	1,521,322	18.9	1,054,539	1,688,230
2030	5,733,008	16.7	957,412	1,479,790	17.3	991,810	1,523,857	18.9	1,083,539	1,691,043
2031	5,890,666	16.7	983,741	1,479,648	17.3	1,019,085	1,523,710	18.9	1,113,336	1,690,880
2032	6,052,659	16.7	1,010,794	1,476,643	17.3	1,047,110	1,520,616	18.9	1,143,953	1,687,446

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 28<sup>th</sup> 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	8.1%	\$384,056	\$ 811,484	10.3%	\$488,368	\$ 1,014,340	10.3%	\$488,368	\$ 980,520
2024	4,871,824	8.1	394,618	819,268	10.3	501,798	1,024,070	10.3	501,798	989,926
2025	5,005,799	8.1	405,470	826,249	10.3	515,597	1,032,796	10.3	515,597	998,361
2026	5,143,458	8.1	416,620	832,334	10.3	529,776	1,040,402	10.3	529,776	1,005,713
2027	5,284,903	8.1	428,077	837,421	10.3	544,345	1,046,761	10.3	544,345	1,011,860
2028	5,430,238	8.1	439,849	841,402	10.3	559,315	1,051,737	10.3	559,315	1,016,671
2029	5,579,570	8.1	451,945	844,159	10.3	574,696	1,055,184	10.3	574,696	1,020,003
2030	5,733,008	8.1	464,374	845,565	10.3	590,500	1,056,942	10.3	590,500	1,021,702
2031	5,890,666	8.1	477,144	845,484	10.3	606,739	1,056,840	10.3	606,739	1,021,604
2032	6,052,659	8.1	490,265	843,767	10.3	623,424	1,054,694	10.3	623,424	1,019,529

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	12.0%	\$568,972	\$ 1,141,196	12.6%	\$597,421	\$ 1,217,192	13.7%	\$649,577	\$ 1,301,720
2024	4,871,824	12.0	584,619	1,152,143	12.6	613,850	1,228,868	13.7	667,440	1,314,207
2025	5,005,799	12.0	600,696	1,161,961	12.6	630,731	1,239,339	13.7	685,794	1,325,406
2026	5,143,458	12.0	617,215	1,170,518	12.6	648,076	1,248,466	13.7	704,654	1,335,167
2027	5,284,903	12.0	634,188	1,177,672	12.6	665,898	1,256,097	13.7	724,032	1,343,328
2028	5,430,238	12.0	651,629	1,183,271	12.6	684,210	1,262,069	13.7	743,943	1,349,714
2029	5,579,570	12.0	669,548	1,187,149	12.6	703,026	1,266,205	13.7	764,401	1,354,137
2030	5,733,008	12.0	687,961	1,189,127	12.6	722,359	1,268,315	13.7	785,422	1,356,393
2031	5,890,666	12.0	706,880	1,189,013	12.6	742,224	1,268,193	13.7	807,021	1,356,262
2032	6,052,659	12.0	726,319	1,186,598	12.6	762,635	1,265,618	13.7	829,214	1,353,508

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	14.8%	\$701,732	\$ 1,420,144	15.4%	\$730,181	\$ 1,462,434	17.0%	\$806,044	\$ 1,622,881
2024	4,871,824	14.8	721,030	1,433,767	15.4	750,261	1,476,463	17.0	828,210	1,638,449
2025	5,005,799	14.8	740,858	1,445,984	15.4	770,893	1,489,044	17.0	850,986	1,652,411
2026	5,143,458	14.8	761,232	1,456,633	15.4	792,093	1,500,010	17.0	874,388	1,664,580
2027	5,284,903	14.8	782,166	1,465,536	15.4	813,875	1,509,178	17.0	898,434	1,674,754
2028	5,430,238	14.8	803,675	1,472,503	15.4	836,257	1,516,353	17.0	923,140	1,682,716
2029	5,579,570	14.8	825,776	1,477,329	15.4	859,254	1,521,322	17.0	948,527	1,688,230
2030	5,733,008	14.8	848,485	1,479,790	15.4	882,883	1,523,857	17.0	974,611	1,691,043
2031	5,890,666	14.8	871,819	1,479,648	15.4	907,163	1,523,710	17.0	1,001,413	1,690,880
2032	6,052,659	14.8	895,794	1,476,643	15.4	932,109	1,520,616	17.0	1,028,952	1,687,446

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 28<sup>th</sup> 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	6.2%	\$293,969	\$ 811,484	8.4%	\$398,281	\$ 1,014,340	8.4%	\$398,281	\$ 980,520
2024	4,871,824	6.2	302,053	819,268	8.4	409,233	1,024,070	8.4	409,233	989,926
2025	5,005,799	6.2	310,360	826,249	8.4	420,487	1,032,796	8.4	420,487	998,361
2026	5,143,458	6.2	318,894	832,334	8.4	432,050	1,040,402	8.4	432,050	1,005,713
2027	5,284,903	6.2	327,664	837,421	8.4	443,932	1,046,761	8.4	443,932	1,011,860
2028	5,430,238	6.2	336,675	841,402	8.4	456,140	1,051,737	8.4	456,140	1,016,671
2029	5,579,570	6.2	345,933	844,159	8.4	468,684	1,055,184	8.4	468,684	1,020,003
2030	5,733,008	6.2	355,446	845,565	8.4	481,573	1,056,942	8.4	481,573	1,021,702
2031	5,890,666	6.2	365,221	845,484	8.4	494,816	1,056,840	8.4	494,816	1,021,604
2032	6,052,659	6.2	375,265	843,767	8.4	508,423	1,054,694	8.4	508,423	1,019,529

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	10.1%	\$478,885	\$ 1,141,196	10.7%	\$507,334	\$ 1,217,192	11.8%	\$559,489	\$ 1,301,720
2024	4,871,824	10.1	492,054	1,152,143	10.7	521,285	1,228,868	11.8	574,875	1,314,207
2025	5,005,799	10.1	505,586	1,161,961	10.7	535,620	1,239,339	11.8	590,684	1,325,406
2026	5,143,458	10.1	519,489	1,170,518	10.7	550,350	1,248,466	11.8	606,928	1,335,167
2027	5,284,903	10.1	533,775	1,177,672	10.7	565,485	1,256,097	11.8	623,619	1,343,328
2028	5,430,238	10.1	548,454	1,183,271	10.7	581,035	1,262,069	11.8	640,768	1,349,714
2029	5,579,570	10.1	563,537	1,187,149	10.7	597,014	1,266,205	11.8	658,389	1,354,137
2030	5,733,008	10.1	579,034	1,189,127	10.7	613,432	1,268,315	11.8	676,495	1,356,393
2031	5,890,666	10.1	594,957	1,189,013	10.7	630,301	1,268,193	11.8	695,099	1,356,262
2032	6,052,659	10.1	611,319	1,186,598	10.7	647,635	1,265,618	11.8	714,214	1,353,508

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	12.9%	\$611,645	\$ 1,420,144	13.5%	\$640,094	\$ 1,462,434	15.1%	\$715,957	\$ 1,622,881
2024	4,871,824	12.9	628,465	1,433,767	13.5	657,696	1,476,463	15.1	735,645	1,638,449
2025	5,005,799	12.9	645,748	1,445,984	13.5	675,783	1,489,044	15.1	755,876	1,652,411
2026	5,143,458	12.9	663,506	1,456,633	13.5	694,367	1,500,010	15.1	776,662	1,664,580
2027	5,284,903	12.9	681,752	1,465,536	13.5	713,462	1,509,178	15.1	798,020	1,674,754
2028	5,430,238	12.9	700,501	1,472,503	13.5	733,082	1,516,353	15.1	819,966	1,682,716
2029	5,579,570	12.9	719,765	1,477,329	13.5	753,242	1,521,322	15.1	842,515	1,688,230
2030	5,733,008	12.9	739,558	1,479,790	13.5	773,956	1,523,857	15.1	865,684	1,691,043
2031	5,890,666	12.9	759,896	1,479,648	13.5	795,240	1,523,710	15.1	889,491	1,690,880
2032	6,052,659	12.9	780,793	1,476,643	13.5	817,109	1,520,616	15.1	913,952	1,687,446

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 28<sup>th</sup> 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	4.3%	\$203,882	\$ 811,484	6.5%	\$308,193	\$ 1,014,340	6.5%	\$308,193	\$ 980,520
2024	4,871,824	4.3	209,488	819,268	6.5	316,669	1,024,070	6.5	316,669	989,926
2025	5,005,799	4.3	215,249	826,249	6.5	325,377	1,032,796	6.5	325,377	998,361
2026	5,143,458	4.3	221,169	832,334	6.5	334,325	1,040,402	6.5	334,325	1,005,713
2027	5,284,903	4.3	227,251	837,421	6.5	343,519	1,046,761	6.5	343,519	1,011,860
2028	5,430,238	4.3	233,500	841,402	6.5	352,965	1,051,737	6.5	352,965	1,016,671
2029	5,579,570	4.3	239,922	844,159	6.5	362,672	1,055,184	6.5	362,672	1,020,003
2030	5,733,008	4.3	246,519	845,565	6.5	372,646	1,056,942	6.5	372,646	1,021,702
2031	5,890,666	4.3	253,299	845,484	6.5	382,893	1,056,840	6.5	382,893	1,021,604
2032	6,052,659	4.3	260,264	843,767	6.5	393,423	1,054,694	6.5	393,423	1,019,529

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	8.2%	\$388,798	\$ 1,141,196	8.8%	\$417,246	\$ 1,217,192	9.9%	\$469,402	\$ 1,301,720
2024	4,871,824	8.2	399,490	1,152,143	8.8	428,721	1,228,868	9.9	482,311	1,314,207
2025	5,005,799	8.2	410,476	1,161,961	8.8	440,510	1,239,339	9.9	495,574	1,325,406
2026	5,143,458	8.2	421,764	1,170,518	8.8	452,624	1,248,466	9.9	509,202	1,335,167
2027	5,284,903	8.2	433,362	1,177,672	8.8	465,071	1,256,097	9.9	523,205	1,343,328
2028	5,430,238	8.2	445,280	1,183,271	8.8	477,861	1,262,069	9.9	537,594	1,349,714
2029	5,579,570	8.2	457,525	1,187,149	8.8	491,002	1,266,205	9.9	552,377	1,354,137
2030	5,733,008	8.2	470,107	1,189,127	8.8	504,505	1,268,315	9.9	567,568	1,356,393
2031	5,890,666	8.2	483,035	1,189,013	8.8	518,379	1,268,193	9.9	583,176	1,356,262
2032	6,052,659	8.2	496,318	1,186,598	8.8	532,634	1,265,618	9.9	599,213	1,353,508

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	11.0%	\$521,558	\$ 1,420,144	11.6%	\$550,006	\$ 1,462,434	13.2%	\$625,869	\$ 1,622,881
2024	4,871,824	11.0	535,901	1,433,767	11.6	565,132	1,476,463	13.2	643,081	1,638,449
2025	5,005,799	11.0	550,638	1,445,984	11.6	580,673	1,489,044	13.2	660,765	1,652,411
2026	5,143,458	11.0	565,780	1,456,633	11.6	596,641	1,500,010	13.2	678,936	1,664,580
2027	5,284,903	11.0	581,339	1,465,536	11.6	613,049	1,509,178	13.2	697,607	1,674,754
2028	5,430,238	11.0	597,326	1,472,503	11.6	629,908	1,516,353	13.2	716,791	1,682,716
2029	5,579,570	11.0	613,753	1,477,329	11.6	647,230	1,521,322	13.2	736,503	1,688,230
2030	5,733,008	11.0	630,631	1,479,790	11.6	665,029	1,523,857	13.2	756,757	1,691,043
2031	5,890,666	11.0	647,973	1,479,648	11.6	683,317	1,523,710	13.2	777,568	1,690,880
2032	6,052,659	11.0	665,792	1,476,643	11.6	702,108	1,520,616	13.2	798,951	1,687,446

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 28<sup>th</sup> 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	10.3%	\$488,368	\$ 832,423	12.6%	\$597,421	\$ 1,040,539	12.6%	\$597,421	\$ 1,006,808
2024	4,871,824	10.3	501,798	840,408	12.6	613,850	1,050,521	12.6	613,850	1,016,466
2025	5,005,799	10.3	515,597	847,569	12.6	630,731	1,059,473	12.6	630,731	1,025,127
2026	5,143,458	10.3	529,776	853,811	12.6	648,076	1,067,275	12.6	648,076	1,032,676
2027	5,284,903	10.3	544,345	859,030	12.6	665,898	1,073,798	12.6	665,898	1,038,988
2028	5,430,238	10.3	559,315	863,114	12.6	684,210	1,078,903	12.6	684,210	1,043,928
2029	5,579,570	10.3	574,696	865,942	12.6	703,026	1,082,439	12.6	703,026	1,047,349
2030	5,733,008	10.3	590,500	867,385	12.6	722,359	1,084,242	12.6	722,359	1,049,094
2031	5,890,666	10.3	606,739	867,302	12.6	742,224	1,084,138	12.6	742,224	1,048,993
2032	6,052,659	10.3	623,424	865,541	12.6	762,635	1,081,936	12.6	762,635	1,046,863

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	14.3%	\$678,025	\$ 1,171,312	14.9%	\$706,474	\$ 1,248,569	16.0%	\$758,630	\$ 1,335,784
2024	4,871,824	14.3	696,671	1,182,548	14.9	725,902	1,260,546	16.0	779,492	1,348,598
2025	5,005,799	14.3	715,829	1,192,625	14.9	745,864	1,271,287	16.0	800,928	1,360,090
2026	5,143,458	14.3	735,514	1,201,408	14.9	766,375	1,280,649	16.0	822,953	1,370,106
2027	5,284,903	14.3	755,741	1,208,751	14.9	787,451	1,288,477	16.0	845,584	1,378,480
2028	5,430,238	14.3	776,524	1,214,498	14.9	809,105	1,294,603	16.0	868,838	1,385,034
2029	5,579,570	14.3	797,879	1,218,478	14.9	831,356	1,298,846	16.0	892,731	1,389,573
2030	5,733,008	14.3	819,820	1,220,508	14.9	854,218	1,301,010	16.0	917,281	1,391,888
2031	5,890,666	14.3	842,365	1,220,391	14.9	877,709	1,300,885	16.0	942,507	1,391,754
2032	6,052,659	14.3	865,530	1,217,913	14.9	901,846	1,298,243	16.0	968,425	1,388,928

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	17.2%	\$815,527	\$ 1,456,653	17.7%	\$839,234	\$ 1,500,248	19.5%	\$924,580	\$ 1,664,765
2024	4,871,824	17.2	837,954	1,470,626	17.7	862,313	1,514,639	19.5	950,006	1,680,735
2025	5,005,799	17.2	860,997	1,483,157	17.7	886,026	1,527,545	19.5	976,131	1,695,057
2026	5,143,458	17.2	884,675	1,494,079	17.7	910,392	1,538,794	19.5	1,002,974	1,707,540
2027	5,284,903	17.2	909,003	1,503,211	17.7	935,428	1,548,199	19.5	1,030,556	1,717,977
2028	5,430,238	17.2	934,001	1,510,358	17.7	961,152	1,555,559	19.5	1,058,896	1,726,145
2029	5,579,570	17.2	959,686	1,515,308	17.7	987,584	1,560,657	19.5	1,088,016	1,731,802
2030	5,733,008	17.2	986,077	1,517,833	17.7	1,014,742	1,563,257	19.5	1,117,937	1,734,687
2031	5,890,666	17.2	1,013,195	1,517,687	17.7	1,042,648	1,563,107	19.5	1,148,680	1,734,520
2032	6,052,659	17.2	1,041,057	1,514,605	17.7	1,071,321	1,559,933	19.5	1,180,269	1,730,997

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 28<sup>th</sup> 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	8.4%	\$398,281	\$ 832,423	10.7%	\$507,334	\$ 1,040,539	10.7%	\$507,334	\$ 1,006,808
2024	4,871,824	8.4	409,233	840,408	10.7	521,285	1,050,521	10.7	521,285	1,016,466
2025	5,005,799	8.4	420,487	847,569	10.7	535,620	1,059,473	10.7	535,620	1,025,127
2026	5,143,458	8.4	432,050	853,811	10.7	550,350	1,067,275	10.7	550,350	1,032,676
2027	5,284,903	8.4	443,932	859,030	10.7	565,485	1,073,798	10.7	565,485	1,038,988
2028	5,430,238	8.4	456,140	863,114	10.7	581,035	1,078,903	10.7	581,035	1,043,928
2029	5,579,570	8.4	468,684	865,942	10.7	597,014	1,082,439	10.7	597,014	1,047,349
2030	5,733,008	8.4	481,573	867,385	10.7	613,432	1,084,242	10.7	613,432	1,049,094
2031	5,890,666	8.4	494,816	867,302	10.7	630,301	1,084,138	10.7	630,301	1,048,993
2032	6,052,659	8.4	508,423	865,541	10.7	647,635	1,081,936	10.7	647,635	1,046,863

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	12.4%	\$587,938	\$ 1,171,312	13.0%	\$616,387	\$ 1,248,569	14.1%	\$668,542	\$ 1,335,784
2024	4,871,824	12.4	604,106	1,182,548	13.0	633,337	1,260,546	14.1	686,927	1,348,598
2025	5,005,799	12.4	620,719	1,192,625	13.0	650,754	1,271,287	14.1	705,818	1,360,090
2026	5,143,458	12.4	637,789	1,201,408	13.0	668,650	1,280,649	14.1	725,228	1,370,106
2027	5,284,903	12.4	655,328	1,208,751	13.0	687,037	1,288,477	14.1	745,171	1,378,480
2028	5,430,238	12.4	673,350	1,214,498	13.0	705,931	1,294,603	14.1	765,664	1,385,034
2029	5,579,570	12.4	691,867	1,218,478	13.0	725,344	1,298,846	14.1	786,719	1,389,573
2030	5,733,008	12.4	710,893	1,220,508	13.0	745,291	1,301,010	14.1	808,354	1,391,888
2031	5,890,666	12.4	730,443	1,220,391	13.0	765,787	1,300,885	14.1	830,584	1,391,754
2032	6,052,659	12.4	750,530	1,217,913	13.0	786,846	1,298,243	14.1	853,425	1,388,928

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	15.3%	\$725,440	\$ 1,456,653	15.8%	\$749,147	\$ 1,500,248	17.6%	\$834,493	\$ 1,664,765
2024	4,871,824	15.3	745,389	1,470,626	15.8	769,748	1,514,639	17.6	857,441	1,680,735
2025	5,005,799	15.3	765,887	1,483,157	15.8	790,916	1,527,545	17.6	881,021	1,695,057
2026	5,143,458	15.3	786,949	1,494,079	15.8	812,666	1,538,794	17.6	905,249	1,707,540
2027	5,284,903	15.3	808,590	1,503,211	15.8	835,015	1,548,199	17.6	930,143	1,717,977
2028	5,430,238	15.3	830,826	1,510,358	15.8	857,978	1,555,559	17.6	955,722	1,726,145
2029	5,579,570	15.3	853,674	1,515,308	15.8	881,572	1,560,657	17.6	982,004	1,731,802
2030	5,733,008	15.3	877,150	1,517,833	15.8	905,815	1,563,257	17.6	1,009,009	1,734,687
2031	5,890,666	15.3	901,272	1,517,687	15.8	930,725	1,563,107	17.6	1,036,757	1,734,520
2032	6,052,659	15.3	926,057	1,514,605	15.8	956,320	1,559,933	17.6	1,065,268	1,730,997

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 28<sup>th</sup> 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	6.5%	\$308,193	\$ 832,423	8.8%	\$417,246	\$ 1,040,539	8.8%	\$417,246	\$ 1,006,808
2024	4,871,824	6.5	316,669	840,408	8.8	428,721	1,050,521	8.8	428,721	1,016,466
2025	5,005,799	6.5	325,377	847,569	8.8	440,510	1,059,473	8.8	440,510	1,025,127
2026	5,143,458	6.5	334,325	853,811	8.8	452,624	1,067,275	8.8	452,624	1,032,676
2027	5,284,903	6.5	343,519	859,030	8.8	465,071	1,073,798	8.8	465,071	1,038,988
2028	5,430,238	6.5	352,965	863,114	8.8	477,861	1,078,903	8.8	477,861	1,043,928
2029	5,579,570	6.5	362,672	865,942	8.8	491,002	1,082,439	8.8	491,002	1,047,349
2030	5,733,008	6.5	372,646	867,385	8.8	504,505	1,084,242	8.8	504,505	1,049,094
2031	5,890,666	6.5	382,893	867,302	8.8	518,379	1,084,138	8.8	518,379	1,048,993
2032	6,052,659	6.5	393,423	865,541	8.8	532,634	1,081,936	8.8	532,634	1,046,863

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	10.5%	\$497,851	\$ 1,171,312	11.1%	\$526,299	\$ 1,248,569	12.2%	\$578,455	\$ 1,335,784
2024	4,871,824	10.5	511,542	1,182,548	11.1	540,772	1,260,546	12.2	594,363	1,348,598
2025	5,005,799	10.5	525,609	1,192,625	11.1	555,644	1,271,287	12.2	610,707	1,360,090
2026	5,143,458	10.5	540,063	1,201,408	11.1	570,924	1,280,649	12.2	627,502	1,370,106
2027	5,284,903	10.5	554,915	1,208,751	11.1	586,624	1,288,477	12.2	644,758	1,378,480
2028	5,430,238	10.5	570,175	1,214,498	11.1	602,756	1,294,603	12.2	662,489	1,385,034
2029	5,579,570	10.5	585,855	1,218,478	11.1	619,332	1,298,846	12.2	680,708	1,389,573
2030	5,733,008	10.5	601,966	1,220,508	11.1	636,364	1,301,010	12.2	699,427	1,391,888
2031	5,890,666	10.5	618,520	1,220,391	11.1	653,864	1,300,885	12.2	718,661	1,391,754
2032	6,052,659	10.5	635,529	1,217,913	11.1	671,845	1,298,243	12.2	738,424	1,388,928

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	13.4%	\$635,352	\$ 1,456,653	13.9%	\$659,059	\$ 1,500,248	15.7%	\$744,405	\$ 1,664,765
2024	4,871,824	13.4	652,824	1,470,626	13.9	677,184	1,514,639	15.7	764,876	1,680,735
2025	5,005,799	13.4	670,777	1,483,157	13.9	695,806	1,527,545	15.7	785,910	1,695,057
2026	5,143,458	13.4	689,223	1,494,079	13.9	714,941	1,538,794	15.7	807,523	1,707,540
2027	5,284,903	13.4	708,177	1,503,211	13.9	734,602	1,548,199	15.7	829,730	1,717,977
2028	5,430,238	13.4	727,652	1,510,358	13.9	754,803	1,555,559	15.7	852,547	1,726,145
2029	5,579,570	13.4	747,662	1,515,308	13.9	775,560	1,560,657	15.7	875,992	1,731,802
2030	5,733,008	13.4	768,223	1,517,833	13.9	796,888	1,563,257	15.7	900,082	1,734,687
2031	5,890,666	13.4	789,349	1,517,687	13.9	818,803	1,563,107	15.7	924,835	1,734,520
2032	6,052,659	13.4	811,056	1,514,605	13.9	841,320	1,559,933	15.7	950,267	1,730,997

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 28<sup>th</sup> 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	4.6%	\$218,106	\$ 832,423	6.9%	\$327,159	\$ 1,040,539	6.9%	\$327,159	\$ 1,006,808
2024	4,871,824	4.6	224,104	840,408	6.9	336,156	1,050,521	6.9	336,156	1,016,466
2025	5,005,799	4.6	230,267	847,569	6.9	345,400	1,059,473	6.9	345,400	1,025,127
2026	5,143,458	4.6	236,599	853,811	6.9	354,899	1,067,275	6.9	354,899	1,032,676
2027	5,284,903	4.6	243,106	859,030	6.9	364,658	1,073,798	6.9	364,658	1,038,988
2028	5,430,238	4.6	249,791	863,114	6.9	374,686	1,078,903	6.9	374,686	1,043,928
2029	5,579,570	4.6	256,660	865,942	6.9	384,990	1,082,439	6.9	384,990	1,047,349
2030	5,733,008	4.6	263,718	867,385	6.9	395,578	1,084,242	6.9	395,578	1,049,094
2031	5,890,666	4.6	270,971	867,302	6.9	406,456	1,084,138	6.9	406,456	1,048,993
2032	6,052,659	4.6	278,422	865,541	6.9	417,633	1,081,936	6.9	417,633	1,046,863

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	8.6%	\$407,763	\$ 1,171,312	9.2%	\$436,212	\$ 1,248,569	10.3%	\$488,368	\$ 1,335,784
2024	4,871,824	8.6	418,977	1,182,548	9.2	448,208	1,260,546	10.3	501,798	1,348,598
2025	5,005,799	8.6	430,499	1,192,625	9.2	460,534	1,271,287	10.3	515,597	1,360,090
2026	5,143,458	8.6	442,337	1,201,408	9.2	473,198	1,280,649	10.3	529,776	1,370,106
2027	5,284,903	8.6	454,502	1,208,751	9.2	486,211	1,288,477	10.3	544,345	1,378,480
2028	5,430,238	8.6	467,000	1,214,498	9.2	499,582	1,294,603	10.3	559,315	1,385,034
2029	5,579,570	8.6	479,843	1,218,478	9.2	513,320	1,298,846	10.3	574,696	1,389,573
2030	5,733,008	8.6	493,039	1,220,508	9.2	527,437	1,301,010	10.3	590,500	1,391,888
2031	5,890,666	8.6	506,597	1,220,391	9.2	541,941	1,300,885	10.3	606,739	1,391,754
2032	6,052,659	8.6	520,529	1,217,913	9.2	556,845	1,298,243	10.3	623,424	1,388,928

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	11.5%	\$545,265	\$ 1,456,653	12.0%	\$568,972	\$ 1,500,248	13.8%	\$654,318	\$ 1,664,765
2024	4,871,824	11.5	560,260	1,470,626	12.0	584,619	1,514,639	13.8	672,312	1,680,735
2025	5,005,799	11.5	575,667	1,483,157	12.0	600,696	1,527,545	13.8	690,800	1,695,057
2026	5,143,458	11.5	591,498	1,494,079	12.0	617,215	1,538,794	13.8	709,797	1,707,540
2027	5,284,903	11.5	607,764	1,503,211	12.0	634,188	1,548,199	13.8	729,317	1,717,977
2028	5,430,238	11.5	624,477	1,510,358	12.0	651,629	1,555,559	13.8	749,373	1,726,145
2029	5,579,570	11.5	641,651	1,515,308	12.0	669,548	1,560,657	13.8	769,981	1,731,802
2030	5,733,008	11.5	659,296	1,517,833	12.0	687,961	1,563,257	13.8	791,155	1,734,687
2031	5,890,666	11.5	677,427	1,517,687	12.0	706,880	1,563,107	13.8	812,912	1,734,520
2032	6,052,659	11.5	696,056	1,514,605	12.0	726,319	1,559,933	13.8	835,267	1,730,997

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 28<sup>th</sup> 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	10.2%	\$483,626	\$ 799,180	12.4%	\$587,938	\$ 999,023	12.6%	\$597,421	\$ 995,675
2024	4,871,824	10.2	496,926	806,846	12.4	604,106	1,008,606	12.6	613,850	1,005,226
2025	5,005,799	10.2	510,591	813,721	12.4	620,719	1,017,201	12.6	630,731	1,013,792
2026	5,143,458	10.2	524,633	819,713	12.4	637,789	1,024,692	12.6	648,076	1,021,258
2027	5,284,903	10.2	539,060	824,723	12.4	655,328	1,030,955	12.6	665,898	1,027,500
2028	5,430,238	10.2	553,884	828,644	12.4	673,350	1,035,856	12.6	684,210	1,032,385
2029	5,579,570	10.2	569,116	831,360	12.4	691,867	1,039,251	12.6	703,026	1,035,768
2030	5,733,008	10.2	584,767	832,745	12.4	710,893	1,040,983	12.6	722,359	1,037,494
2031	5,890,666	10.2	600,848	832,665	12.4	730,443	1,040,883	12.6	742,224	1,037,394
2032	6,052,659	10.2	617,371	830,974	12.4	750,530	1,038,769	12.6	762,635	1,035,287

  

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	14.2%	\$673,284	\$ 1,146,384	14.7%	\$696,991	\$ 1,198,811	15.9%	\$753,888	\$ 1,297,065
2024	4,871,824	14.2	691,799	1,157,381	14.7	716,158	1,210,311	15.9	774,620	1,309,507
2025	5,005,799	14.2	710,823	1,167,243	14.7	735,852	1,220,624	15.9	795,922	1,320,666
2026	5,143,458	14.2	730,371	1,175,839	14.7	756,088	1,229,613	15.9	817,810	1,330,392
2027	5,284,903	14.2	750,456	1,183,026	14.7	776,881	1,237,129	15.9	840,300	1,338,524
2028	5,430,238	14.2	771,094	1,188,650	14.7	798,245	1,243,011	15.9	863,408	1,344,888
2029	5,579,570	14.2	792,299	1,192,545	14.7	820,197	1,247,084	15.9	887,152	1,349,295
2030	5,733,008	14.2	814,087	1,194,532	14.7	842,752	1,249,162	15.9	911,548	1,351,543
2031	5,890,666	14.2	836,475	1,194,417	14.7	865,928	1,249,042	15.9	936,616	1,351,413
2032	6,052,659	14.2	859,478	1,191,991	14.7	889,741	1,246,505	15.9	962,373	1,348,669

  

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	16.9%	\$801,303	\$ 1,398,651	17.5%	\$829,751	\$ 1,447,785	19.2%	\$910,356	\$ 1,598,406
2024	4,871,824	16.9	823,338	1,412,068	17.5	852,569	1,461,673	19.2	935,390	1,613,739
2025	5,005,799	16.9	845,980	1,424,100	17.5	876,015	1,474,128	19.2	961,113	1,627,490
2026	5,143,458	16.9	869,244	1,434,587	17.5	900,105	1,484,984	19.2	987,544	1,639,475
2027	5,284,903	16.9	893,149	1,443,356	17.5	924,858	1,494,061	19.2	1,014,701	1,649,496
2028	5,430,238	16.9	917,710	1,450,218	17.5	950,292	1,501,164	19.2	1,042,606	1,657,338
2029	5,579,570	16.9	942,947	1,454,970	17.5	976,425	1,506,083	19.2	1,071,277	1,662,769
2030	5,733,008	16.9	968,878	1,457,394	17.5	1,003,276	1,508,592	19.2	1,100,738	1,665,539
2031	5,890,666	16.9	995,523	1,457,254	17.5	1,030,867	1,508,447	19.2	1,131,008	1,665,379
2032	6,052,659	16.9	1,022,899	1,454,295	17.5	1,059,215	1,505,384	19.2	1,162,111	1,661,997

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 28<sup>th</sup> 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	8.3%	\$393,539	\$ 799,180	10.5%	\$497,851	\$ 999,023	10.7%	\$507,334	\$ 995,675
2024	4,871,824	8.3	404,361	806,846	10.5	511,542	1,008,606	10.7	521,285	1,005,226
2025	5,005,799	8.3	415,481	813,721	10.5	525,609	1,017,201	10.7	535,620	1,013,792
2026	5,143,458	8.3	426,907	819,713	10.5	540,063	1,024,692	10.7	550,350	1,021,258
2027	5,284,903	8.3	438,647	824,723	10.5	554,915	1,030,955	10.7	565,485	1,027,500
2028	5,430,238	8.3	450,710	828,644	10.5	570,175	1,035,856	10.7	581,035	1,032,385
2029	5,579,570	8.3	463,104	831,360	10.5	585,855	1,039,251	10.7	597,014	1,035,768
2030	5,733,008	8.3	475,840	832,745	10.5	601,966	1,040,983	10.7	613,432	1,037,494
2031	5,890,666	8.3	488,925	832,665	10.5	618,520	1,040,883	10.7	630,301	1,037,394
2032	6,052,659	8.3	502,371	830,974	10.5	635,529	1,038,769	10.7	647,635	1,035,287

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	12.3%	\$583,197	\$ 1,146,384	12.8%	\$606,904	\$ 1,198,811	14.0%	\$663,801	\$ 1,297,065
2024	4,871,824	12.3	599,234	1,157,381	12.8	623,593	1,210,311	14.0	682,055	1,309,507
2025	5,005,799	12.3	615,713	1,167,243	12.8	640,742	1,220,624	14.0	700,812	1,320,666
2026	5,143,458	12.3	632,645	1,175,839	12.8	658,363	1,229,613	14.0	720,084	1,330,392
2027	5,284,903	12.3	650,043	1,183,026	12.8	676,468	1,237,129	14.0	739,886	1,338,524
2028	5,430,238	12.3	667,919	1,188,650	12.8	695,070	1,243,011	14.0	760,233	1,344,888
2029	5,579,570	12.3	686,287	1,192,545	12.8	714,185	1,247,084	14.0	781,140	1,349,295
2030	5,733,008	12.3	705,160	1,194,532	12.8	733,825	1,249,162	14.0	802,621	1,351,543
2031	5,890,666	12.3	724,552	1,194,417	12.8	754,005	1,249,042	14.0	824,693	1,351,413
2032	6,052,659	12.3	744,477	1,191,991	12.8	774,740	1,246,505	14.0	847,372	1,348,669

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	15.0%	\$711,215	\$ 1,398,651	15.6%	\$739,664	\$ 1,447,785	17.3%	\$820,268	\$ 1,598,406
2024	4,871,824	15.0	730,774	1,412,068	15.6	760,005	1,461,673	17.3	842,826	1,613,739
2025	5,005,799	15.0	750,870	1,424,100	15.6	780,905	1,474,128	17.3	866,003	1,627,490
2026	5,143,458	15.0	771,519	1,434,587	15.6	802,379	1,484,984	17.3	889,818	1,639,475
2027	5,284,903	15.0	792,735	1,443,356	15.6	824,445	1,494,061	17.3	914,288	1,649,496
2028	5,430,238	15.0	814,536	1,450,218	15.6	847,117	1,501,164	17.3	939,431	1,657,338
2029	5,579,570	15.0	836,936	1,454,970	15.6	870,413	1,506,083	17.3	965,266	1,662,769
2030	5,733,008	15.0	859,951	1,457,394	15.6	894,349	1,508,592	17.3	991,810	1,665,539
2031	5,890,666	15.0	883,600	1,457,254	15.6	918,944	1,508,447	17.3	1,019,085	1,665,379
2032	6,052,659	15.0	907,899	1,454,295	15.6	944,215	1,505,384	17.3	1,047,110	1,661,997

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 28<sup>th</sup> 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	6.4%	\$303,452	\$ 799,180	8.6%	\$407,763	\$ 999,023	8.8%	\$417,246	\$ 995,675
2024	4,871,824	6.4	311,797	806,846	8.6	418,977	1,008,606	8.8	428,721	1,005,226
2025	5,005,799	6.4	320,371	813,721	8.6	430,499	1,017,201	8.8	440,510	1,013,792
2026	5,143,458	6.4	329,181	819,713	8.6	442,337	1,024,692	8.8	452,624	1,021,258
2027	5,284,903	6.4	338,234	824,723	8.6	454,502	1,030,955	8.8	465,071	1,027,500
2028	5,430,238	6.4	347,535	828,644	8.6	467,000	1,035,856	8.8	477,861	1,032,385
2029	5,579,570	6.4	357,092	831,360	8.6	479,843	1,039,251	8.8	491,002	1,035,768
2030	5,733,008	6.4	366,913	832,745	8.6	493,039	1,040,983	8.8	504,505	1,037,494
2031	5,890,666	6.4	377,003	832,665	8.6	506,597	1,040,883	8.8	518,379	1,037,394
2032	6,052,659	6.4	387,370	830,974	8.6	520,529	1,038,769	8.8	532,634	1,035,287

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	10.4%	\$493,109	\$ 1,146,384	10.9%	\$516,816	\$ 1,198,811	12.1%	\$573,714	\$ 1,297,065
2024	4,871,824	10.4	506,670	1,157,381	10.9	531,029	1,210,311	12.1	589,491	1,309,507
2025	5,005,799	10.4	520,603	1,167,243	10.9	545,632	1,220,624	12.1	605,702	1,320,666
2026	5,143,458	10.4	534,920	1,175,839	10.9	560,637	1,229,613	12.1	622,358	1,330,392
2027	5,284,903	10.4	549,630	1,183,026	10.9	576,054	1,237,129	12.1	639,473	1,338,524
2028	5,430,238	10.4	564,745	1,188,650	10.9	591,896	1,243,011	12.1	657,059	1,344,888
2029	5,579,570	10.4	580,275	1,192,545	10.9	608,173	1,247,084	12.1	675,128	1,349,295
2030	5,733,008	10.4	596,233	1,194,532	10.9	624,898	1,249,162	12.1	693,694	1,351,543
2031	5,890,666	10.4	612,629	1,194,417	10.9	642,083	1,249,042	12.1	712,771	1,351,413
2032	6,052,659	10.4	629,477	1,191,991	10.9	659,740	1,246,505	12.1	732,372	1,348,669

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	13.1%	\$621,128	\$ 1,398,651	13.7%	\$649,577	\$ 1,447,785	15.4%	\$730,181	\$ 1,598,406
2024	4,871,824	13.1	638,209	1,412,068	13.7	667,440	1,461,673	15.4	750,261	1,613,739
2025	5,005,799	13.1	655,760	1,424,100	13.7	685,794	1,474,128	15.4	770,893	1,627,490
2026	5,143,458	13.1	673,793	1,434,587	13.7	704,654	1,484,984	15.4	792,093	1,639,475
2027	5,284,903	13.1	692,322	1,443,356	13.7	724,032	1,494,061	15.4	813,875	1,649,496
2028	5,430,238	13.1	711,361	1,450,218	13.7	743,943	1,501,164	15.4	836,257	1,657,338
2029	5,579,570	13.1	730,924	1,454,970	13.7	764,401	1,506,083	15.4	859,254	1,662,769
2030	5,733,008	13.1	751,024	1,457,394	13.7	785,422	1,508,592	15.4	882,883	1,665,539
2031	5,890,666	13.1	771,677	1,457,254	13.7	807,021	1,508,447	15.4	907,163	1,665,379
2032	6,052,659	13.1	792,898	1,454,295	13.7	829,214	1,505,384	15.4	932,109	1,661,997

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 28<sup>th</sup> 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	4.5%	\$213,365	\$ 799,180	6.7%	\$317,676	\$ 999,023	6.9%	\$327,159	\$ 995,675
2024	4,871,824	4.5	219,232	806,846	6.7	326,412	1,008,606	6.9	336,156	1,005,226
2025	5,005,799	4.5	225,261	813,721	6.7	335,389	1,017,201	6.9	345,400	1,013,792
2026	5,143,458	4.5	231,456	819,713	6.7	344,612	1,024,692	6.9	354,899	1,021,258
2027	5,284,903	4.5	237,821	824,723	6.7	354,089	1,030,955	6.9	364,658	1,027,500
2028	5,430,238	4.5	244,361	828,644	6.7	363,826	1,035,856	6.9	374,686	1,032,385
2029	5,579,570	4.5	251,081	831,360	6.7	373,831	1,039,251	6.9	384,990	1,035,768
2030	5,733,008	4.5	257,985	832,745	6.7	384,112	1,040,983	6.9	395,578	1,037,494
2031	5,890,666	4.5	265,080	832,665	6.7	394,675	1,040,883	6.9	406,456	1,037,394
2032	6,052,659	4.5	272,370	830,974	6.7	405,528	1,038,769	6.9	417,633	1,035,287

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	8.5%	\$403,022	\$ 1,146,384	9.0%	\$426,729	\$ 1,198,811	10.2%	\$483,626	\$ 1,297,065
2024	4,871,824	8.5	414,105	1,157,381	9.0	438,464	1,210,311	10.2	496,926	1,309,507
2025	5,005,799	8.5	425,493	1,167,243	9.0	450,522	1,220,624	10.2	510,591	1,320,666
2026	5,143,458	8.5	437,194	1,175,839	9.0	462,911	1,229,613	10.2	524,633	1,330,392
2027	5,284,903	8.5	449,217	1,183,026	9.0	475,641	1,237,129	10.2	539,060	1,338,524
2028	5,430,238	8.5	461,570	1,188,650	9.0	488,721	1,243,011	10.2	553,884	1,344,888
2029	5,579,570	8.5	474,263	1,192,545	9.0	502,161	1,247,084	10.2	569,116	1,349,295
2030	5,733,008	8.5	487,306	1,194,532	9.0	515,971	1,249,162	10.2	584,767	1,351,543
2031	5,890,666	8.5	500,707	1,194,417	9.0	530,160	1,249,042	10.2	600,848	1,351,413
2032	6,052,659	8.5	514,476	1,191,991	9.0	544,739	1,246,505	10.2	617,371	1,348,669

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	11.2%	\$531,041	\$ 1,398,651	11.8%	\$559,489	\$ 1,447,785	13.5%	\$640,094	\$ 1,598,406
2024	4,871,824	11.2	545,644	1,412,068	11.8	574,875	1,461,673	13.5	657,696	1,613,739
2025	5,005,799	11.2	560,649	1,424,100	11.8	590,684	1,474,128	13.5	675,783	1,627,490
2026	5,143,458	11.2	576,067	1,434,587	11.8	606,928	1,484,984	13.5	694,367	1,639,475
2027	5,284,903	11.2	591,909	1,443,356	11.8	623,619	1,494,061	13.5	713,462	1,649,496
2028	5,430,238	11.2	608,187	1,450,218	11.8	640,768	1,501,164	13.5	733,082	1,657,338
2029	5,579,570	11.2	624,912	1,454,970	11.8	658,389	1,506,083	13.5	753,242	1,662,769
2030	5,733,008	11.2	642,097	1,457,394	11.8	676,495	1,508,592	13.5	773,956	1,665,539
2031	5,890,666	11.2	659,755	1,457,254	11.8	695,099	1,508,447	13.5	795,240	1,665,379
2032	6,052,659	11.2	677,898	1,454,295	11.8	714,214	1,505,384	13.5	817,109	1,661,997

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 28<sup>th</sup> 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	10.4%	\$493,109	\$ 820,533	12.8%	\$606,904	\$ 1,025,688	13.0%	\$616,387	\$ 1,023,377
2024	4,871,824	10.4	506,670	828,404	12.8	623,593	1,035,527	13.0	633,337	1,033,194
2025	5,005,799	10.4	520,603	835,463	12.8	640,742	1,044,351	13.0	650,754	1,041,998
2026	5,143,458	10.4	534,920	841,616	12.8	658,363	1,052,042	13.0	668,650	1,049,672
2027	5,284,903	10.4	549,630	846,760	12.8	676,468	1,058,472	13.0	687,037	1,056,088
2028	5,430,238	10.4	564,745	850,786	12.8	695,070	1,063,504	13.0	705,931	1,061,109
2029	5,579,570	10.4	580,275	853,574	12.8	714,185	1,066,989	13.0	725,344	1,064,586
2030	5,733,008	10.4	596,233	854,996	12.8	733,825	1,068,767	13.0	745,291	1,066,360
2031	5,890,666	10.4	612,629	854,914	12.8	754,005	1,068,664	13.0	765,787	1,066,257
2032	6,052,659	10.4	629,477	853,178	12.8	774,740	1,066,494	13.0	786,846	1,064,092

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	14.7%	\$696,991	\$ 1,177,815	15.1%	\$715,957	\$ 1,230,787	16.3%	\$772,854	\$ 1,332,198
2024	4,871,824	14.7	716,158	1,189,113	15.1	735,645	1,242,594	16.3	794,107	1,344,977
2025	5,005,799	14.7	735,852	1,199,246	15.1	755,876	1,253,182	16.3	815,945	1,356,438
2026	5,143,458	14.7	756,088	1,208,078	15.1	776,662	1,262,411	16.3	838,384	1,366,427
2027	5,284,903	14.7	776,881	1,215,462	15.1	798,020	1,270,127	16.3	861,439	1,374,779
2028	5,430,238	14.7	798,245	1,221,241	15.1	819,966	1,276,165	16.3	885,129	1,381,315
2029	5,579,570	14.7	820,197	1,225,243	15.1	842,515	1,280,347	16.3	909,470	1,385,842
2030	5,733,008	14.7	842,752	1,227,284	15.1	865,684	1,282,480	16.3	934,480	1,388,151
2031	5,890,666	14.7	865,928	1,227,166	15.1	889,491	1,282,357	16.3	960,179	1,388,017
2032	6,052,659	14.7	889,741	1,224,674	15.1	913,952	1,279,753	16.3	986,583	1,385,198

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	17.4%	\$825,010	\$ 1,435,939	18.0%	\$853,458	\$ 1,486,652	19.7%	\$934,063	\$ 1,641,154
2024	4,871,824	17.4	847,697	1,449,713	18.0	876,928	1,500,913	19.7	959,749	1,656,897
2025	5,005,799	17.4	871,009	1,462,066	18.0	901,044	1,513,703	19.7	986,142	1,671,016
2026	5,143,458	17.4	894,962	1,472,833	18.0	925,822	1,524,850	19.7	1,013,261	1,683,322
2027	5,284,903	17.4	919,573	1,481,835	18.0	951,283	1,534,170	19.7	1,041,126	1,693,611
2028	5,430,238	17.4	944,861	1,488,880	18.0	977,443	1,541,464	19.7	1,069,757	1,701,663
2029	5,579,570	17.4	970,845	1,493,759	18.0	1,004,323	1,546,516	19.7	1,099,175	1,707,239
2030	5,733,008	17.4	997,543	1,496,248	18.0	1,031,941	1,549,093	19.7	1,129,403	1,710,083
2031	5,890,666	17.4	1,024,976	1,496,104	18.0	1,060,320	1,548,944	19.7	1,160,461	1,709,918
2032	6,052,659	17.4	1,053,163	1,493,066	18.0	1,089,479	1,545,798	19.7	1,192,374	1,706,445

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 28<sup>th</sup> 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	8.5%	\$403,022	\$ 820,533	10.9%	\$516,816	\$ 1,025,688	11.1%	\$526,299	\$ 1,023,377
2024	4,871,824	8.5	414,105	828,404	10.9	531,029	1,035,527	11.1	540,772	1,033,194
2025	5,005,799	8.5	425,493	835,463	10.9	545,632	1,044,351	11.1	555,644	1,041,998
2026	5,143,458	8.5	437,194	841,616	10.9	560,637	1,052,042	11.1	570,924	1,049,672
2027	5,284,903	8.5	449,217	846,760	10.9	576,054	1,058,472	11.1	586,624	1,056,088
2028	5,430,238	8.5	461,570	850,786	10.9	591,896	1,063,504	11.1	602,756	1,061,109
2029	5,579,570	8.5	474,263	853,574	10.9	608,173	1,066,989	11.1	619,332	1,064,586
2030	5,733,008	8.5	487,306	854,996	10.9	624,898	1,068,767	11.1	636,364	1,066,360
2031	5,890,666	8.5	500,707	854,914	10.9	642,083	1,068,664	11.1	653,864	1,066,257
2032	6,052,659	8.5	514,476	853,178	10.9	659,740	1,066,494	11.1	671,845	1,064,092

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	12.8%	\$606,904	\$ 1,177,815	13.2%	\$625,869	\$ 1,230,787	14.4%	\$682,767	\$ 1,332,198
2024	4,871,824	12.8	623,593	1,189,113	13.2	643,081	1,242,594	14.4	701,543	1,344,977
2025	5,005,799	12.8	640,742	1,199,246	13.2	660,765	1,253,182	14.4	720,835	1,356,438
2026	5,143,458	12.8	658,363	1,208,078	13.2	678,936	1,262,411	14.4	740,658	1,366,427
2027	5,284,903	12.8	676,468	1,215,462	13.2	697,607	1,270,127	14.4	761,026	1,374,779
2028	5,430,238	12.8	695,070	1,221,241	13.2	716,791	1,276,165	14.4	781,954	1,381,315
2029	5,579,570	12.8	714,185	1,225,243	13.2	736,503	1,280,347	14.4	803,458	1,385,842
2030	5,733,008	12.8	733,825	1,227,284	13.2	756,757	1,282,480	14.4	825,553	1,388,151
2031	5,890,666	12.8	754,005	1,227,166	13.2	777,568	1,282,357	14.4	848,256	1,388,017
2032	6,052,659	12.8	774,740	1,224,674	13.2	798,951	1,279,753	14.4	871,583	1,385,198

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	15.5%	\$734,922	\$ 1,435,939	16.1%	\$763,371	\$ 1,486,652	17.8%	\$843,975	\$ 1,641,154
2024	4,871,824	15.5	755,133	1,449,713	16.1	784,364	1,500,913	17.8	867,185	1,656,897
2025	5,005,799	15.5	775,899	1,462,066	16.1	805,934	1,513,703	17.8	891,032	1,671,016
2026	5,143,458	15.5	797,236	1,472,833	16.1	828,097	1,524,850	17.8	915,536	1,683,322
2027	5,284,903	15.5	819,160	1,481,835	16.1	850,869	1,534,170	17.8	940,713	1,693,611
2028	5,430,238	15.5	841,687	1,488,880	16.1	874,268	1,541,464	17.8	966,582	1,701,663
2029	5,579,570	15.5	864,833	1,493,759	16.1	898,311	1,546,516	17.8	993,163	1,707,239
2030	5,733,008	15.5	888,616	1,496,248	16.1	923,014	1,549,093	17.8	1,020,475	1,710,083
2031	5,890,666	15.5	913,053	1,496,104	16.1	948,397	1,548,944	17.8	1,048,539	1,709,918
2032	6,052,659	15.5	938,162	1,493,066	16.1	974,478	1,545,798	17.8	1,077,373	1,706,445

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 28<sup>th</sup> 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	6.6%	\$312,935	\$ 820,533	9.0%	\$426,729	\$ 1,025,688	9.2%	\$436,212	\$ 1,023,377
2024	4,871,824	6.6	321,540	828,404	9.0	438,464	1,035,527	9.2	448,208	1,033,194
2025	5,005,799	6.6	330,383	835,463	9.0	450,522	1,044,351	9.2	460,534	1,041,998
2026	5,143,458	6.6	339,468	841,616	9.0	462,911	1,052,042	9.2	473,198	1,049,672
2027	5,284,903	6.6	348,804	846,760	9.0	475,641	1,058,472	9.2	486,211	1,056,088
2028	5,430,238	6.6	358,396	850,786	9.0	488,721	1,063,504	9.2	499,582	1,061,109
2029	5,579,570	6.6	368,252	853,574	9.0	502,161	1,066,989	9.2	513,320	1,064,586
2030	5,733,008	6.6	378,379	854,996	9.0	515,971	1,068,767	9.2	527,437	1,066,360
2031	5,890,666	6.6	388,784	854,914	9.0	530,160	1,068,664	9.2	541,941	1,066,257
2032	6,052,659	6.6	399,475	853,178	9.0	544,739	1,066,494	9.2	556,845	1,064,092

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	10.9%	\$516,816	\$ 1,177,815	11.3%	\$535,782	\$ 1,230,787	12.5%	\$592,679	\$ 1,332,198
2024	4,871,824	10.9	531,029	1,189,113	11.3	550,516	1,242,594	12.5	608,978	1,344,977
2025	5,005,799	10.9	545,632	1,199,246	11.3	565,655	1,253,182	12.5	625,725	1,356,438
2026	5,143,458	10.9	560,637	1,208,078	11.3	581,211	1,262,411	12.5	642,932	1,366,427
2027	5,284,903	10.9	576,054	1,215,462	11.3	597,194	1,270,127	12.5	660,613	1,374,779
2028	5,430,238	10.9	591,896	1,221,241	11.3	613,617	1,276,165	12.5	678,780	1,381,315
2029	5,579,570	10.9	608,173	1,225,243	11.3	630,491	1,280,347	12.5	697,446	1,385,842
2030	5,733,008	10.9	624,898	1,227,284	11.3	647,830	1,282,480	12.5	716,626	1,388,151
2031	5,890,666	10.9	642,083	1,227,166	11.3	665,645	1,282,357	12.5	736,333	1,388,017
2032	6,052,659	10.9	659,740	1,224,674	11.3	683,950	1,279,753	12.5	756,582	1,385,198

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	13.6%	\$644,835	\$ 1,435,939	14.2%	\$673,284	\$ 1,486,652	15.9%	\$753,888	\$ 1,641,154
2024	4,871,824	13.6	662,568	1,449,713	14.2	691,799	1,500,913	15.9	774,620	1,656,897
2025	5,005,799	13.6	680,789	1,462,066	14.2	710,823	1,513,703	15.9	795,922	1,671,016
2026	5,143,458	13.6	699,510	1,472,833	14.2	730,371	1,524,850	15.9	817,810	1,683,322
2027	5,284,903	13.6	718,747	1,481,835	14.2	750,456	1,534,170	15.9	840,300	1,693,611
2028	5,430,238	13.6	738,512	1,488,880	14.2	771,094	1,541,464	15.9	863,408	1,701,663
2029	5,579,570	13.6	758,822	1,493,759	14.2	792,299	1,546,516	15.9	887,152	1,707,239
2030	5,733,008	13.6	779,689	1,496,248	14.2	814,087	1,549,093	15.9	911,548	1,710,083
2031	5,890,666	13.6	801,131	1,496,104	14.2	836,475	1,548,944	15.9	936,616	1,709,918
2032	6,052,659	13.6	823,162	1,493,066	14.2	859,478	1,545,798	15.9	962,373	1,706,445

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 28<sup>th</sup> 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	4.7%	\$222,847	\$ 820,533	7.1%	\$336,642	\$ 1,025,688	7.3%	\$346,125	\$ 1,023,377
2024	4,871,824	4.7	228,976	828,404	7.1	345,900	1,035,527	7.3	355,643	1,033,194
2025	5,005,799	4.7	235,273	835,463	7.1	355,412	1,044,351	7.3	365,423	1,041,998
2026	5,143,458	4.7	241,743	841,616	7.1	365,186	1,052,042	7.3	375,472	1,049,672
2027	5,284,903	4.7	248,390	846,760	7.1	375,228	1,058,472	7.3	385,798	1,056,088
2028	5,430,238	4.7	255,221	850,786	7.1	385,547	1,063,504	7.3	396,407	1,061,109
2029	5,579,570	4.7	262,240	853,574	7.1	396,149	1,066,989	7.3	407,309	1,064,586
2030	5,733,008	4.7	269,451	854,996	7.1	407,044	1,068,767	7.3	418,510	1,066,360
2031	5,890,666	4.7	276,861	854,914	7.1	418,237	1,068,664	7.3	430,019	1,066,257
2032	6,052,659	4.7	284,475	853,178	7.1	429,739	1,066,494	7.3	441,844	1,064,092

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	9.0%	\$426,729	\$ 1,177,815	9.4%	\$445,695	\$ 1,230,787	10.6%	\$502,592	\$ 1,332,198
2024	4,871,824	9.0	438,464	1,189,113	9.4	457,951	1,242,594	10.6	516,413	1,344,977
2025	5,005,799	9.0	450,522	1,199,246	9.4	470,545	1,253,182	10.6	530,615	1,356,438
2026	5,143,458	9.0	462,911	1,208,078	9.4	483,485	1,262,411	10.6	545,207	1,366,427
2027	5,284,903	9.0	475,641	1,215,462	9.4	496,781	1,270,127	10.6	560,200	1,374,779
2028	5,430,238	9.0	488,721	1,221,241	9.4	510,442	1,276,165	10.6	575,605	1,381,315
2029	5,579,570	9.0	502,161	1,225,243	9.4	524,480	1,280,347	10.6	591,434	1,385,842
2030	5,733,008	9.0	515,971	1,227,284	9.4	538,903	1,282,480	10.6	607,699	1,388,151
2031	5,890,666	9.0	530,160	1,227,166	9.4	553,723	1,282,357	10.6	624,411	1,388,017
2032	6,052,659	9.0	544,739	1,224,674	9.4	568,950	1,279,753	10.6	641,582	1,385,198

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	11.7%	\$554,748	\$ 1,435,939	12.3%	\$583,197	\$ 1,486,652	14.0%	\$663,801	\$ 1,641,154
2024	4,871,824	11.7	570,003	1,449,713	12.3	599,234	1,500,913	14.0	682,055	1,656,897
2025	5,005,799	11.7	585,678	1,462,066	12.3	615,713	1,513,703	14.0	700,812	1,671,016
2026	5,143,458	11.7	601,785	1,472,833	12.3	632,645	1,524,850	14.0	720,084	1,683,322
2027	5,284,903	11.7	618,334	1,481,835	12.3	650,043	1,534,170	14.0	739,886	1,693,611
2028	5,430,238	11.7	635,338	1,488,880	12.3	667,919	1,541,464	14.0	760,233	1,701,663
2029	5,579,570	11.7	652,810	1,493,759	12.3	686,287	1,546,516	14.0	781,140	1,707,239
2030	5,733,008	11.7	670,762	1,496,248	12.3	705,160	1,549,093	14.0	802,621	1,710,083
2031	5,890,666	11.7	689,208	1,496,104	12.3	724,552	1,548,944	14.0	824,693	1,709,918
2032	6,052,659	11.7	708,161	1,493,066	12.3	744,477	1,545,798	14.0	847,372	1,706,445

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 28<sup>th</sup> 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.

