

September 25, 2019

Spanish Lake Fire Protection District
St. Louis, Missouri

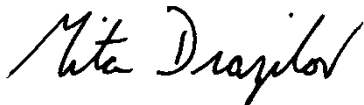
Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.660 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the July 31, 2019 Initial Valuation for the Spanish Lake Fire Protection District dated September 25, 2019.

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, 2019.

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,



Mita D. Drazilov, ASA, FCA, MAAA

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% 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	
2019	\$ 47,982	2.7%	\$1,296	\$ 850	4.0%	\$1,919	\$ 1,275	3.2%	\$1,535	\$ 1,030
2020	49,541	2.7	1,338	862	4.0	1,982	1,292	3.2	1,585	1,044
2021	51,151	2.7	1,381	873	4.0	2,046	1,308	3.2	1,637	1,057
2022	52,813	2.7	1,426	883	4.0	2,113	1,323	3.2	1,690	1,069
2023	54,529	2.7	1,472	892	4.0	2,181	1,336	3.2	1,745	1,080
2024	56,301	2.7	1,520	900	4.0	2,252	1,348	3.2	1,802	1,089
2025	58,131	2.7	1,570	907	4.0	2,325	1,358	3.2	1,860	1,097
2026	60,020	2.7	1,621	912	4.0	2,401	1,366	3.2	1,921	1,103
2027	61,971	2.7	1,673	916	4.0	2,479	1,371	3.2	1,983	1,107
2028	63,985	2.7	1,728	918	4.0	2,559	1,374	3.2	2,048	1,109

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	
2019	\$ 47,982	4.4%	\$2,111	\$ 1,402	5.2%	\$2,495	\$ 1,692	5.4%	\$2,591	\$ 1,783
2020	49,541	4.4	2,180	1,421	5.2	2,576	1,715	5.4	2,675	1,807
2021	51,151	4.4	2,251	1,439	5.2	2,660	1,737	5.4	2,762	1,830
2022	52,813	4.4	2,324	1,455	5.2	2,746	1,757	5.4	2,852	1,851
2023	54,529	4.4	2,399	1,470	5.2	2,836	1,775	5.4	2,945	1,870
2024	56,301	4.4	2,477	1,483	5.2	2,928	1,791	5.4	3,040	1,886
2025	58,131	4.4	2,558	1,494	5.2	3,023	1,804	5.4	3,139	1,900
2026	60,020	4.4	2,641	1,502	5.2	3,121	1,814	5.4	3,241	1,911
2027	61,971	4.4	2,727	1,508	5.2	3,222	1,821	5.4	3,346	1,918
2028	63,985	4.4	2,815	1,511	5.2	3,327	1,824	5.4	3,455	1,922

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	
2019	\$ 47,982	6.6%	\$3,167	\$ 2,061	6.7%	\$3,215	\$ 2,097	8.0%	\$3,839	\$ 2,439
2020	49,541	6.6	3,270	2,089	6.7	3,319	2,126	8.0	3,963	2,472
2021	51,151	6.6	3,376	2,115	6.7	3,427	2,153	8.0	4,092	2,503
2022	52,813	6.6	3,486	2,139	6.7	3,538	2,178	8.0	4,225	2,532
2023	54,529	6.6	3,599	2,161	6.7	3,653	2,200	8.0	4,362	2,558
2024	56,301	6.6	3,716	2,180	6.7	3,772	2,219	8.0	4,504	2,580
2025	58,131	6.6	3,837	2,196	6.7	3,895	2,235	8.0	4,650	2,599
2026	60,020	6.6	3,961	2,208	6.7	4,021	2,248	8.0	4,802	2,614
2027	61,971	6.6	4,090	2,217	6.7	4,152	2,257	8.0	4,958	2,624
2028	63,985	6.6	4,223	2,221	6.7	4,287	2,261	8.0	5,119	2,629

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	2.9%	\$1,391	\$ 897	4.2%	\$2,015	\$ 1,343	3.4%	\$1,631	\$ 1,091
2020	49,541	2.9	1,437	909	4.2	2,081	1,361	3.4	1,684	1,106
2021	51,151	2.9	1,483	920	4.2	2,148	1,378	3.4	1,739	1,120
2022	52,813	2.9	1,532	931	4.2	2,218	1,394	3.4	1,796	1,133
2023	54,529	2.9	1,581	940	4.2	2,290	1,408	3.4	1,854	1,145
2024	56,301	2.9	1,633	948	4.2	2,365	1,420	3.4	1,914	1,155
2025	58,131	2.9	1,686	955	4.2	2,442	1,430	3.4	1,976	1,163
2026	60,020	2.9	1,741	960	4.2	2,521	1,438	3.4	2,041	1,170
2027	61,971	2.9	1,797	964	4.2	2,603	1,444	3.4	2,107	1,175
2028	63,985	2.9	1,856	966	4.2	2,687	1,447	3.4	2,175	1,177

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	4.6%	\$2,207	\$ 1,482	5.5%	\$2,639	\$ 1,776	5.7%	\$2,735	\$ 1,868
2020	49,541	4.6	2,279	1,502	5.5	2,725	1,800	5.7	2,824	1,894
2021	51,151	4.6	2,353	1,521	5.5	2,813	1,823	5.7	2,916	1,918
2022	52,813	4.6	2,429	1,538	5.5	2,905	1,844	5.7	3,010	1,940
2023	54,529	4.6	2,508	1,554	5.5	2,999	1,863	5.7	3,108	1,960
2024	56,301	4.6	2,590	1,568	5.5	3,097	1,879	5.7	3,209	1,977
2025	58,131	4.6	2,674	1,579	5.5	3,197	1,893	5.7	3,313	1,991
2026	60,020	4.6	2,761	1,588	5.5	3,301	1,904	5.7	3,421	2,002
2027	61,971	4.6	2,851	1,594	5.5	3,408	1,911	5.7	3,532	2,010
2028	63,985	4.6	2,943	1,597	5.5	3,519	1,915	5.7	3,647	2,014

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	6.9%	\$3,311	\$ 2,157	7.0%	\$3,359	\$ 2,204	8.4%	\$4,030	\$ 2,541
2020	49,541	6.9	3,418	2,187	7.0	3,468	2,234	8.4	4,161	2,576
2021	51,151	6.9	3,529	2,215	7.0	3,581	2,262	8.4	4,297	2,608
2022	52,813	6.9	3,644	2,240	7.0	3,697	2,288	8.4	4,436	2,638
2023	54,529	6.9	3,763	2,263	7.0	3,817	2,311	8.4	4,580	2,665
2024	56,301	6.9	3,885	2,283	7.0	3,941	2,331	8.4	4,729	2,688
2025	58,131	6.9	4,011	2,300	7.0	4,069	2,348	8.4	4,883	2,708
2026	60,020	6.9	4,141	2,313	7.0	4,201	2,361	8.4	5,042	2,723
2027	61,971	6.9	4,276	2,322	7.0	4,338	2,370	8.4	5,206	2,734
2028	63,985	6.9	4,415	2,326	7.0	4,479	2,375	8.4	5,375	2,739

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
		Year	Payroll	Year	Payroll	Year	Payroll	Year	Payroll	Year
2019	\$ 47,982	6.4%	\$3,071	\$ 1,555	7.7%	\$3,695	\$ 1,949	6.8%	\$3,263	\$ 1,736
2020	49,541	6.4	3,171	1,576	7.7	3,815	1,976	6.8	3,369	1,760
2021	51,151	6.4	3,274	1,596	7.7	3,939	2,001	6.8	3,478	1,782
2022	52,813	6.4	3,380	1,614	7.7	4,067	2,024	6.8	3,591	1,802
2023	54,529	6.4	3,490	1,630	7.7	4,199	2,045	6.8	3,708	1,820
2024	56,301	6.4	3,603	1,644	7.7	4,335	2,063	6.8	3,828	1,836
2025	58,131	6.4	3,720	1,656	7.7	4,476	2,078	6.8	3,953	1,849
2026	60,020	6.4	3,841	1,665	7.7	4,622	2,090	6.8	4,081	1,859
2027	61,971	6.4	3,966	1,671	7.7	4,772	2,098	6.8	4,214	1,866
2028	63,985	6.4	4,095	1,674	7.7	4,927	2,102	6.8	4,351	1,870

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
		Year	Payroll	Year	Payroll	Year	Payroll	Year	Payroll	Year
2019	\$ 47,982	8.1%	\$3,887	\$ 2,087	9.1%	\$4,366	\$ 2,337	9.3%	\$4,462	\$ 2,433
2020	49,541	8.1	4,013	2,116	9.1	4,508	2,369	9.3	4,607	2,466
2021	51,151	8.1	4,143	2,143	9.1	4,655	2,399	9.3	4,757	2,497
2022	52,813	8.1	4,278	2,168	9.1	4,806	2,426	9.3	4,912	2,526
2023	54,529	8.1	4,417	2,190	9.1	4,962	2,451	9.3	5,071	2,552
2024	56,301	8.1	4,560	2,209	9.1	5,123	2,473	9.3	5,236	2,574
2025	58,131	8.1	4,709	2,225	9.1	5,290	2,491	9.3	5,406	2,593
2026	60,020	8.1	4,862	2,238	9.1	5,462	2,505	9.3	5,582	2,608
2027	61,971	8.1	5,020	2,247	9.1	5,639	2,515	9.3	5,763	2,618
2028	63,985	8.1	5,183	2,251	9.1	5,823	2,520	9.3	5,951	2,623

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
		Year	Payroll	Year	Payroll	Year	Payroll	Year	Payroll	Year
2019	\$ 47,982	10.5%	\$5,038	\$ 2,719	10.6%	\$5,086	\$ 2,770	11.9%	\$5,710	\$ 3,110
2020	49,541	10.5	5,202	2,756	10.6	5,251	2,808	11.9	5,895	3,153
2021	51,151	10.5	5,371	2,791	10.6	5,422	2,843	11.9	6,087	3,193
2022	52,813	10.5	5,545	2,823	10.6	5,598	2,876	11.9	6,285	3,230
2023	54,529	10.5	5,726	2,852	10.6	5,780	2,905	11.9	6,489	3,263
2024	56,301	10.5	5,912	2,877	10.6	5,968	2,931	11.9	6,700	3,292
2025	58,131	10.5	6,104	2,898	10.6	6,162	2,952	11.9	6,918	3,316
2026	60,020	10.5	6,302	2,914	10.6	6,362	2,969	11.9	7,142	3,335
2027	61,971	10.5	6,507	2,925	10.6	6,569	2,980	11.9	7,375	3,348
2028	63,985	10.5	6,718	2,931	10.6	6,782	2,986	11.9	7,614	3,354

Notes regarding the above projections:

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- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	6.5%	\$3,119	\$ 1,609	8.0%	\$3,839	\$ 2,018	7.0%	\$3,359	\$ 1,804
2020	49,541	6.5	3,220	1,631	8.0	3,963	2,046	7.0	3,468	1,829
2021	51,151	6.5	3,325	1,652	8.0	4,092	2,072	7.0	3,581	1,852
2022	52,813	6.5	3,433	1,671	8.0	4,225	2,096	7.0	3,697	1,873
2023	54,529	6.5	3,544	1,688	8.0	4,362	2,117	7.0	3,817	1,892
2024	56,301	6.5	3,660	1,703	8.0	4,504	2,136	7.0	3,941	1,909
2025	58,131	6.5	3,779	1,715	8.0	4,650	2,152	7.0	4,069	1,923
2026	60,020	6.5	3,901	1,725	8.0	4,802	2,164	7.0	4,201	1,934
2027	61,971	6.5	4,028	1,732	8.0	4,958	2,172	7.0	4,338	1,941
2028	63,985	6.5	4,159	1,735	8.0	5,119	2,176	7.0	4,479	1,945

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	8.4%	\$4,030	\$ 2,160	9.4%	\$4,510	\$ 2,412	9.6%	\$4,606	\$ 2,509
2020	49,541	8.4	4,161	2,190	9.4	4,657	2,445	9.6	4,756	2,543
2021	51,151	8.4	4,297	2,218	9.4	4,808	2,476	9.6	4,910	2,575
2022	52,813	8.4	4,436	2,243	9.4	4,964	2,504	9.6	5,070	2,604
2023	54,529	8.4	4,580	2,266	9.4	5,126	2,529	9.6	5,235	2,630
2024	56,301	8.4	4,729	2,286	9.4	5,292	2,551	9.6	5,405	2,653
2025	58,131	8.4	4,883	2,303	9.4	5,464	2,570	9.6	5,581	2,672
2026	60,020	8.4	5,042	2,316	9.4	5,642	2,585	9.6	5,762	2,687
2027	61,971	8.4	5,206	2,325	9.4	5,825	2,595	9.6	5,949	2,697
2028	63,985	8.4	5,375	2,329	9.4	6,015	2,600	9.6	6,143	2,702

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	10.8%	\$5,182	\$ 2,814	10.9%	\$5,230	\$ 2,857	12.3%	\$5,902	\$ 3,226
2020	49,541	10.8	5,350	2,853	10.9	5,400	2,896	12.3	6,094	3,270
2021	51,151	10.8	5,524	2,889	10.9	5,575	2,933	12.3	6,292	3,311
2022	52,813	10.8	5,704	2,922	10.9	5,757	2,967	12.3	6,496	3,349
2023	54,529	10.8	5,889	2,952	10.9	5,944	2,997	12.3	6,707	3,383
2024	56,301	10.8	6,081	2,978	10.9	6,137	3,023	12.3	6,925	3,413
2025	58,131	10.8	6,278	3,000	10.9	6,336	3,045	12.3	7,150	3,438
2026	60,020	10.8	6,482	3,017	10.9	6,542	3,062	12.3	7,382	3,457
2027	61,971	10.8	6,693	3,029	10.9	6,755	3,074	12.3	7,622	3,470
2028	63,985	10.8	6,910	3,035	10.9	6,974	3,080	12.3	7,870	3,477

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	3.3%	\$1,583	\$ 1,021	4.7%	\$2,255	\$ 1,477	4.6%	\$2,207	\$ 1,455
2020	49,541	3.3	1,635	1,035	4.7	2,328	1,497	4.6	2,279	1,475
2021	51,151	3.3	1,688	1,048	4.7	2,404	1,516	4.6	2,353	1,494
2022	52,813	3.3	1,743	1,060	4.7	2,482	1,533	4.6	2,429	1,511
2023	54,529	3.3	1,799	1,071	4.7	2,563	1,549	4.6	2,508	1,526
2024	56,301	3.3	1,858	1,080	4.7	2,646	1,563	4.6	2,590	1,539
2025	58,131	3.3	1,918	1,088	4.7	2,732	1,574	4.6	2,674	1,550
2026	60,020	3.3	1,981	1,094	4.7	2,821	1,583	4.6	2,761	1,559
2027	61,971	3.3	2,045	1,098	4.7	2,913	1,589	4.6	2,851	1,565
2028	63,985	3.3	2,112	1,100	4.7	3,007	1,592	4.6	2,943	1,568

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	5.6%	\$2,687	\$ 1,803	6.0%	\$2,879	\$ 1,939	6.7%	\$3,215	\$ 2,160
2020	49,541	5.6	2,774	1,828	6.0	2,972	1,966	6.7	3,319	2,190
2021	51,151	5.6	2,864	1,851	6.0	3,069	1,991	6.7	3,427	2,218
2022	52,813	5.6	2,958	1,872	6.0	3,169	2,014	6.7	3,538	2,243
2023	54,529	5.6	3,054	1,891	6.0	3,272	2,034	6.7	3,653	2,266
2024	56,301	5.6	3,153	1,908	6.0	3,378	2,052	6.7	3,772	2,286
2025	58,131	5.6	3,255	1,922	6.0	3,488	2,067	6.7	3,895	2,303
2026	60,020	5.6	3,361	1,933	6.0	3,601	2,079	6.7	4,021	2,316
2027	61,971	5.6	3,470	1,940	6.0	3,718	2,087	6.7	4,152	2,325
2028	63,985	5.6	3,583	1,944	6.0	3,839	2,091	6.7	4,287	2,329

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	7.6%	\$3,647	\$ 2,354	7.9%	\$3,791	\$ 2,459	9.1%	\$4,366	\$ 2,766
2020	49,541	7.6	3,765	2,386	7.9	3,914	2,493	9.1	4,508	2,804
2021	51,151	7.6	3,887	2,416	7.9	4,041	2,524	9.1	4,655	2,839
2022	52,813	7.6	4,014	2,444	7.9	4,172	2,553	9.1	4,806	2,871
2023	54,529	7.6	4,144	2,469	7.9	4,308	2,579	9.1	4,962	2,900
2024	56,301	7.6	4,279	2,491	7.9	4,448	2,602	9.1	5,123	2,925
2025	58,131	7.6	4,418	2,509	7.9	4,592	2,621	9.1	5,290	2,946
2026	60,020	7.6	4,562	2,523	7.9	4,742	2,636	9.1	5,462	2,963
2027	61,971	7.6	4,710	2,533	7.9	4,896	2,646	9.1	5,639	2,974
2028	63,985	7.6	4,863	2,538	7.9	5,055	2,651	9.1	5,823	2,980

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	3.5%	\$1,679	\$ 1,076	5.0%	\$2,399	\$ 1,560	4.8%	\$2,303	\$ 1,528
2020	49,541	3.5	1,734	1,091	5.0	2,477	1,581	4.8	2,378	1,549
2021	51,151	3.5	1,790	1,105	5.0	2,558	1,601	4.8	2,455	1,569
2022	52,813	3.5	1,848	1,118	5.0	2,641	1,619	4.8	2,535	1,587
2023	54,529	3.5	1,909	1,129	5.0	2,726	1,635	4.8	2,617	1,603
2024	56,301	3.5	1,971	1,139	5.0	2,815	1,649	4.8	2,702	1,617
2025	58,131	3.5	2,035	1,147	5.0	2,907	1,661	4.8	2,790	1,629
2026	60,020	3.5	2,101	1,153	5.0	3,001	1,670	4.8	2,881	1,638
2027	61,971	3.5	2,169	1,157	5.0	3,099	1,676	4.8	2,975	1,644
2028	63,985	3.5	2,239	1,159	5.0	3,199	1,679	4.8	3,071	1,647

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	5.9%	\$2,831	\$ 1,894	6.4%	\$3,071	\$ 2,032	7.0%	\$3,359	\$ 2,258
2020	49,541	5.9	2,923	1,920	6.4	3,171	2,060	7.0	3,468	2,289
2021	51,151	5.9	3,018	1,944	6.4	3,274	2,086	7.0	3,581	2,318
2022	52,813	5.9	3,116	1,966	6.4	3,380	2,110	7.0	3,697	2,345
2023	54,529	5.9	3,217	1,986	6.4	3,490	2,131	7.0	3,817	2,369
2024	56,301	5.9	3,322	2,003	6.4	3,603	2,150	7.0	3,941	2,390
2025	58,131	5.9	3,430	2,018	6.4	3,720	2,166	7.0	4,069	2,407
2026	60,020	5.9	3,541	2,029	6.4	3,841	2,178	7.0	4,201	2,421
2027	61,971	5.9	3,656	2,037	6.4	3,966	2,186	7.0	4,338	2,430
2028	63,985	5.9	3,775	2,041	6.4	4,095	2,190	7.0	4,479	2,435

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	8.0%	\$3,839	\$ 2,447	8.3%	\$3,983	\$ 2,557	9.6%	\$4,606	\$ 2,879
2020	49,541	8.0	3,963	2,481	8.3	4,112	2,592	9.6	4,756	2,918
2021	51,151	8.0	4,092	2,512	8.3	4,246	2,625	9.6	4,910	2,955
2022	52,813	8.0	4,225	2,541	8.3	4,383	2,655	9.6	5,070	2,989
2023	54,529	8.0	4,362	2,567	8.3	4,526	2,682	9.6	5,235	3,019
2024	56,301	8.0	4,504	2,590	8.3	4,673	2,706	9.6	5,405	3,046
2025	58,131	8.0	4,650	2,609	8.3	4,825	2,726	9.6	5,581	3,068
2026	60,020	8.0	4,802	2,624	8.3	4,982	2,741	9.6	5,762	3,085
2027	61,971	8.0	4,958	2,634	8.3	5,144	2,752	9.6	5,949	3,097
2028	63,985	8.0	5,119	2,639	8.3	5,311	2,757	9.6	6,143	3,103

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	6.9%	\$3,311	\$ 1,728	8.5%	\$4,078	\$ 2,161	8.2%	\$3,935	\$ 2,158
2020	49,541	6.9	3,418	1,752	8.5	4,211	2,191	8.2	4,062	2,188
2021	51,151	6.9	3,529	1,774	8.5	4,348	2,219	8.2	4,194	2,216
2022	52,813	6.9	3,644	1,794	8.5	4,489	2,244	8.2	4,331	2,241
2023	54,529	6.9	3,763	1,812	8.5	4,635	2,267	8.2	4,471	2,264
2024	56,301	6.9	3,885	1,828	8.5	4,786	2,287	8.2	4,617	2,284
2025	58,131	6.9	4,011	1,841	8.5	4,941	2,304	8.2	4,767	2,301
2026	60,020	6.9	4,141	1,851	8.5	5,102	2,317	8.2	4,922	2,314
2027	61,971	6.9	4,276	1,858	8.5	5,268	2,326	8.2	5,082	2,323
2028	63,985	6.9	4,415	1,862	8.5	5,439	2,330	8.2	5,247	2,327

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	9.4%	\$4,510	\$ 2,479	9.9%	\$4,750	\$ 2,585	10.5%	\$5,038	\$ 2,800
2020	49,541	9.4	4,657	2,513	9.9	4,905	2,620	10.5	5,202	2,838
2021	51,151	9.4	4,808	2,545	9.9	5,064	2,653	10.5	5,371	2,874
2022	52,813	9.4	4,964	2,574	9.9	5,228	2,683	10.5	5,545	2,907
2023	54,529	9.4	5,126	2,600	9.9	5,398	2,710	10.5	5,726	2,937
2024	56,301	9.4	5,292	2,623	9.9	5,574	2,734	10.5	5,912	2,963
2025	58,131	9.4	5,464	2,642	9.9	5,755	2,754	10.5	6,104	2,985
2026	60,020	9.4	5,642	2,657	9.9	5,942	2,770	10.5	6,302	3,002
2027	61,971	9.4	5,825	2,667	9.9	6,135	2,781	10.5	6,507	3,014
2028	63,985	9.4	6,015	2,672	9.9	6,335	2,786	10.5	6,718	3,020

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 47,982	11.5%	\$5,518	\$ 3,029	11.8%	\$5,662	\$ 3,131	13.0%	\$6,238	\$ 3,450
2020	49,541	11.5	5,697	3,070	11.8	5,846	3,174	13.0	6,440	3,497
2021	51,151	11.5	5,882	3,109	11.8	6,036	3,214	13.0	6,650	3,541
2022	52,813	11.5	6,073	3,145	11.8	6,232	3,251	13.0	6,866	3,581
2023	54,529	11.5	6,271	3,177	11.8	6,434	3,284	13.0	7,089	3,617
2024	56,301	11.5	6,475	3,205	11.8	6,644	3,313	13.0	7,319	3,649
2025	58,131	11.5	6,685	3,228	11.8	6,859	3,337	13.0	7,557	3,676
2026	60,020	11.5	6,902	3,246	11.8	7,082	3,356	13.0	7,803	3,697
2027	61,971	11.5	7,127	3,259	11.8	7,313	3,369	13.0	8,056	3,711
2028	63,985	11.5	7,358	3,265	11.8	7,550	3,375	13.0	8,318	3,718

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	7.1%	\$3,407	\$ 1,793	8.8%	\$4,222	\$ 2,230	8.5%	\$4,078	\$ 2,232
2020	49,541	7.1	3,517	1,818	8.8	4,360	2,261	8.5	4,211	2,263
2021	51,151	7.1	3,632	1,841	8.8	4,501	2,290	8.5	4,348	2,292
2022	52,813	7.1	3,750	1,862	8.8	4,648	2,316	8.5	4,489	2,318
2023	54,529	7.1	3,872	1,881	8.8	4,799	2,340	8.5	4,635	2,342
2024	56,301	7.1	3,997	1,898	8.8	4,954	2,361	8.5	4,786	2,363
2025	58,131	7.1	4,127	1,912	8.8	5,116	2,378	8.5	4,941	2,380
2026	60,020	7.1	4,261	1,923	8.8	5,282	2,391	8.5	5,102	2,393
2027	61,971	7.1	4,400	1,930	8.8	5,453	2,400	8.5	5,268	2,402
2028	63,985	7.1	4,543	1,934	8.8	5,631	2,405	8.5	5,439	2,407

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	9.7%	\$4,654	\$ 2,564	10.3%	\$4,942	\$ 2,682	10.9%	\$5,230	\$ 2,911
2020	49,541	9.7	4,805	2,599	10.3	5,103	2,719	10.9	5,400	2,951
2021	51,151	9.7	4,962	2,632	10.3	5,269	2,753	10.9	5,575	2,988
2022	52,813	9.7	5,123	2,662	10.3	5,440	2,784	10.9	5,757	3,022
2023	54,529	9.7	5,289	2,689	10.3	5,616	2,812	10.9	5,944	3,053
2024	56,301	9.7	5,461	2,713	10.3	5,799	2,837	10.9	6,137	3,080
2025	58,131	9.7	5,639	2,733	10.3	5,987	2,858	10.9	6,336	3,102
2026	60,020	9.7	5,822	2,748	10.3	6,182	2,874	10.9	6,542	3,120
2027	61,971	9.7	6,011	2,759	10.3	6,383	2,885	10.9	6,755	3,132
2028	63,985	9.7	6,207	2,764	10.3	6,590	2,891	10.9	6,974	3,138

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2019	\$ 47,982	11.9%	\$5,710	\$ 3,135	12.2%	\$5,854	\$ 3,242	13.5%	\$6,478	\$ 3,581
2020	49,541	11.9	5,895	3,178	12.2	6,044	3,286	13.5	6,688	3,630
2021	51,151	11.9	6,087	3,218	12.2	6,240	3,327	13.5	6,905	3,676
2022	52,813	11.9	6,285	3,255	12.2	6,443	3,365	13.5	7,130	3,718
2023	54,529	11.9	6,489	3,288	12.2	6,653	3,399	13.5	7,361	3,756
2024	56,301	11.9	6,700	3,317	12.2	6,869	3,429	13.5	7,601	3,789
2025	58,131	11.9	6,918	3,341	12.2	7,092	3,454	13.5	7,848	3,817
2026	60,020	11.9	7,142	3,360	12.2	7,322	3,474	13.5	8,103	3,839
2027	61,971	11.9	7,375	3,373	12.2	7,560	3,487	13.5	8,366	3,854
2028	63,985	11.9	7,614	3,379	12.2	7,806	3,494	13.5	8,638	3,861

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	5.5%	\$84,210	\$ 235,706	7.5%	\$114,832	\$ 302,726	7.5%	\$114,832	\$ 274,977
2020	1,580,850	5.5	86,947	238,935	7.5	118,564	306,873	7.5	118,564	278,744
2021	1,632,228	5.5	89,773	241,948	7.5	122,417	310,742	7.5	122,417	282,259
2022	1,685,275	5.5	92,690	244,714	7.5	126,396	314,295	7.5	126,396	285,486
2023	1,740,046	5.5	95,703	247,201	7.5	130,503	317,489	7.5	130,503	288,387
2024	1,796,597	5.5	98,813	249,372	7.5	134,745	320,277	7.5	134,745	290,920
2025	1,854,986	5.5	102,024	251,189	7.5	139,124	322,610	7.5	139,124	293,039
2026	1,915,273	5.5	105,340	252,609	7.5	143,645	324,433	7.5	143,645	294,695
2027	1,977,519	5.5	108,764	253,586	7.5	148,314	325,688	7.5	148,314	295,835
2028	2,041,788	5.5	112,298	254,070	7.5	153,134	326,310	7.5	153,134	296,400

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	9.1%	\$139,329	\$ 332,237	9.7%	\$148,516	\$ 369,187	10.7%	\$163,827	\$ 388,857
2020	1,580,850	9.1	143,857	336,789	9.7	153,342	374,245	10.7	169,151	394,184
2021	1,632,228	9.1	148,533	341,036	9.7	158,326	378,964	10.7	174,648	399,154
2022	1,685,275	9.1	153,360	344,935	9.7	163,472	383,297	10.7	180,324	403,718
2023	1,740,046	9.1	158,344	348,440	9.7	168,784	387,192	10.7	186,185	407,820
2024	1,796,597	9.1	163,490	351,500	9.7	174,270	390,592	10.7	192,236	411,402
2025	1,854,986	9.1	168,804	354,060	9.7	179,934	393,437	10.7	198,484	414,399
2026	1,915,273	9.1	174,290	356,061	9.7	185,781	395,661	10.7	204,934	416,741
2027	1,977,519	9.1	179,954	357,438	9.7	191,819	397,191	10.7	211,595	418,353
2028	2,041,788	9.1	185,803	358,121	9.7	198,053	397,949	10.7	218,471	419,152

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	11.7%	\$179,138	\$ 435,377	12.2%	\$186,793	\$ 445,210	13.8%	\$211,290	\$ 501,487
2020	1,580,850	11.7	184,959	441,342	12.2	192,864	451,309	13.8	218,157	508,357
2021	1,632,228	11.7	190,971	446,907	12.2	199,132	457,000	13.8	225,247	514,767
2022	1,685,275	11.7	197,177	452,016	12.2	205,604	462,225	13.8	232,568	520,652
2023	1,740,046	11.7	203,585	456,609	12.2	212,286	466,922	13.8	240,126	525,942
2024	1,796,597	11.7	210,202	460,619	12.2	219,185	471,023	13.8	247,930	530,561
2025	1,854,986	11.7	217,033	463,974	12.2	226,308	474,454	13.8	255,988	534,426
2026	1,915,273	11.7	224,087	466,596	12.2	233,663	477,135	13.8	264,308	537,446
2027	1,977,519	11.7	231,370	468,400	12.2	241,257	478,980	13.8	272,898	539,524
2028	2,041,788	11.7	238,889	469,294	12.2	249,098	479,895	13.8	281,767	540,554

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	5.8%	\$88,803	\$ 243,925	7.9%	\$120,956	\$ 312,752	7.9%	\$120,956	\$ 284,511
2020	1,580,850	5.8	91,689	247,267	7.9	124,887	317,037	7.9	124,887	288,409
2021	1,632,228	5.8	94,669	250,385	7.9	128,946	321,035	7.9	128,946	292,046
2022	1,685,275	5.8	97,746	253,248	7.9	133,137	324,705	7.9	133,137	295,385
2023	1,740,046	5.8	100,923	255,821	7.9	137,464	328,004	7.9	137,464	298,386
2024	1,796,597	5.8	104,203	258,068	7.9	141,931	330,885	7.9	141,931	301,007
2025	1,854,986	5.8	107,589	259,948	7.9	146,544	333,295	7.9	146,544	303,200
2026	1,915,273	5.8	111,086	261,417	7.9	151,307	335,179	7.9	151,307	304,914
2027	1,977,519	5.8	114,696	262,428	7.9	156,224	336,475	7.9	156,224	306,093
2028	2,041,788	5.8	118,424	262,929	7.9	161,301	337,117	7.9	161,301	306,677

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	9.5%	\$145,454	\$ 343,206	10.1%	\$154,640	\$ 381,131	11.1%	\$169,951	\$ 401,429
2020	1,580,850	9.5	150,181	347,908	10.1	159,666	386,352	11.1	175,474	406,929
2021	1,632,228	9.5	155,062	352,295	10.1	164,855	391,224	11.1	181,177	412,060
2022	1,685,275	9.5	160,101	356,323	10.1	170,213	395,697	11.1	187,066	416,771
2023	1,740,046	9.5	165,304	359,944	10.1	175,745	399,718	11.1	193,145	421,006
2024	1,796,597	9.5	170,677	363,105	10.1	181,456	403,228	11.1	199,422	424,703
2025	1,854,986	9.5	176,224	365,750	10.1	187,354	406,165	11.1	205,903	427,797
2026	1,915,273	9.5	181,951	367,817	10.1	193,443	408,461	11.1	212,595	430,215
2027	1,977,519	9.5	187,864	369,239	10.1	199,729	410,041	11.1	219,505	431,879
2028	2,041,788	9.5	193,970	369,944	10.1	206,221	410,824	11.1	226,638	432,704

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	12.3%	\$188,324	\$ 449,218	12.7%	\$194,448	\$ 459,359	14.4%	\$220,477	\$ 517,207
2020	1,580,850	12.3	194,445	455,372	12.7	200,768	465,652	14.4	227,642	524,293
2021	1,632,228	12.3	200,764	461,114	12.7	207,293	471,524	14.4	235,041	530,904
2022	1,685,275	12.3	207,289	466,386	12.7	214,030	476,915	14.4	242,680	536,974
2023	1,740,046	12.3	214,026	471,125	12.7	220,986	481,761	14.4	250,567	542,430
2024	1,796,597	12.3	220,981	475,263	12.7	228,168	485,992	14.4	258,710	547,194
2025	1,854,986	12.3	228,163	478,725	12.7	235,583	489,532	14.4	267,118	551,180
2026	1,915,273	12.3	235,579	481,431	12.7	243,240	492,299	14.4	275,799	554,295
2027	1,977,519	12.3	243,235	483,293	12.7	251,145	494,203	14.4	284,763	556,438
2028	2,041,788	12.3	251,140	484,216	12.7	259,307	495,147	14.4	294,017	557,501

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	9.4%	\$143,922	\$ 248,038	11.4%	\$174,544	\$ 310,042	11.4%	\$174,544	\$ 287,036
2020	1,580,850	9.4	148,600	251,436	11.4	180,217	314,290	11.4	180,217	290,968
2021	1,632,228	9.4	153,429	254,606	11.4	186,074	318,253	11.4	186,074	294,637
2022	1,685,275	9.4	158,416	257,517	11.4	192,121	321,892	11.4	192,121	298,006
2023	1,740,046	9.4	163,564	260,134	11.4	198,365	325,163	11.4	198,365	301,034
2024	1,796,597	9.4	168,880	262,419	11.4	204,812	328,019	11.4	204,812	303,678
2025	1,854,986	9.4	174,369	264,331	11.4	211,468	330,408	11.4	211,468	305,890
2026	1,915,273	9.4	180,036	265,825	11.4	218,341	332,275	11.4	218,341	307,619
2027	1,977,519	9.4	185,887	266,853	11.4	225,437	333,560	11.4	225,437	308,809
2028	2,041,788	9.4	191,928	267,363	11.4	232,764	334,197	11.4	232,764	309,399

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	13.0%	\$199,042	\$ 339,269	13.6%	\$208,228	\$ 372,058	14.6%	\$223,539	\$ 391,544
2020	1,580,850	13.0	205,511	343,917	13.6	214,996	377,155	14.6	230,804	396,908
2021	1,632,228	13.0	212,190	348,254	13.6	221,983	381,911	14.6	238,305	401,913
2022	1,685,275	13.0	219,086	352,236	13.6	229,197	386,277	14.6	246,050	406,508
2023	1,740,046	13.0	226,206	355,815	13.6	236,646	390,202	14.6	254,047	410,638
2024	1,796,597	13.0	233,558	358,940	13.6	244,337	393,629	14.6	262,303	414,244
2025	1,854,986	13.0	241,148	361,555	13.6	252,278	396,496	14.6	270,828	417,261
2026	1,915,273	13.0	248,985	363,598	13.6	260,477	398,737	14.6	279,630	419,619
2027	1,977,519	13.0	257,077	365,004	13.6	268,943	400,279	14.6	288,718	421,242
2028	2,041,788	13.0	265,432	365,701	13.6	277,683	401,043	14.6	298,101	422,046

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	15.6%	\$238,850	\$ 434,065	16.1%	\$246,505	\$ 443,837	17.7%	\$271,003	\$ 496,131
2020	1,580,850	15.6	246,613	440,012	16.1	254,517	449,917	17.7	279,810	502,928
2021	1,632,228	15.6	254,628	445,560	16.1	262,789	455,590	17.7	288,904	509,270
2022	1,685,275	15.6	262,903	450,654	16.1	271,329	460,799	17.7	298,294	515,092
2023	1,740,046	15.6	271,447	455,233	16.1	280,147	465,481	17.7	307,988	520,326
2024	1,796,597	15.6	280,269	459,231	16.1	289,252	469,569	17.7	317,998	524,896
2025	1,854,986	15.6	289,378	462,576	16.1	298,653	472,990	17.7	328,333	528,720
2026	1,915,273	15.6	298,783	465,190	16.1	308,359	475,663	17.7	339,003	531,708
2027	1,977,519	15.6	308,493	466,989	16.1	318,381	477,502	17.7	350,021	533,764
2028	2,041,788	15.6	318,519	467,881	16.1	328,728	478,414	17.7	361,396	534,783

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	9.6%	\$146,985	\$ 255,248	11.8%	\$180,669	\$ 319,005	11.8%	\$180,669	\$ 295,586
2020	1,580,850	9.6	151,762	258,745	11.8	186,540	323,375	11.8	186,540	299,635
2021	1,632,228	9.6	156,694	262,008	11.8	192,603	327,453	11.8	192,603	303,413
2022	1,685,275	9.6	161,786	265,004	11.8	198,862	331,197	11.8	198,862	306,882
2023	1,740,046	9.6	167,044	267,697	11.8	205,325	334,562	11.8	205,325	310,000
2024	1,796,597	9.6	172,473	270,048	11.8	211,998	337,500	11.8	211,998	312,723
2025	1,854,986	9.6	178,079	272,015	11.8	218,888	339,958	11.8	218,888	315,001
2026	1,915,273	9.6	183,866	273,552	11.8	226,002	341,879	11.8	226,002	316,781
2027	1,977,519	9.6	189,842	274,610	11.8	233,347	343,201	11.8	233,347	318,006
2028	2,041,788	9.6	196,012	275,134	11.8	240,931	343,856	11.8	240,931	318,613

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	13.4%	\$205,166	\$ 349,216	14.0%	\$214,353	\$ 382,763	15.0%	\$229,663	\$ 402,939
2020	1,580,850	13.4	211,834	354,000	14.0	221,319	388,007	15.0	237,128	408,459
2021	1,632,228	13.4	218,719	358,464	14.0	228,512	392,900	15.0	244,834	413,609
2022	1,685,275	13.4	225,827	362,562	14.0	235,939	397,392	15.0	252,791	418,338
2023	1,740,046	13.4	233,166	366,246	14.0	243,606	401,430	15.0	261,007	422,589
2024	1,796,597	13.4	240,744	369,463	14.0	251,524	404,955	15.0	269,490	426,300
2025	1,854,986	13.4	248,568	372,154	14.0	259,698	407,905	15.0	278,248	429,405
2026	1,915,273	13.4	256,647	374,257	14.0	268,138	410,210	15.0	287,291	431,832
2027	1,977,519	13.4	264,988	375,704	14.0	276,853	411,796	15.0	296,628	433,502
2028	2,041,788	13.4	273,600	376,421	14.0	285,850	412,582	15.0	306,268	434,330

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	16.2%	\$248,037	\$ 446,587	16.6%	\$254,161	\$ 456,670	18.3%	\$280,189	\$ 510,424
2020	1,580,850	16.2	256,098	452,705	16.6	262,421	462,926	18.3	289,296	517,417
2021	1,632,228	16.2	264,421	458,413	16.6	270,950	468,763	18.3	298,698	523,941
2022	1,685,275	16.2	273,015	463,654	16.6	279,756	474,122	18.3	308,405	529,931
2023	1,740,046	16.2	281,887	468,365	16.6	288,848	478,940	18.3	318,428	535,316
2024	1,796,597	16.2	291,049	472,478	16.6	298,235	483,146	18.3	328,777	540,017
2025	1,854,986	16.2	300,508	475,920	16.6	307,928	486,665	18.3	339,462	543,951
2026	1,915,273	16.2	310,274	478,610	16.6	317,935	489,415	18.3	350,495	547,025
2027	1,977,519	16.2	320,358	480,461	16.6	328,268	491,308	18.3	361,886	549,140
2028	2,041,788	16.2	330,770	481,378	16.6	338,937	492,246	18.3	373,647	550,189

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	5.9%	\$90,334	\$ 210,763	8.0%	\$122,487	\$ 270,310	8.6%	\$131,674	\$ 270,340
2020	1,580,850	5.9	93,270	213,650	8.0	126,468	274,013	8.6	135,953	274,044
2021	1,632,228	5.9	96,301	216,344	8.0	130,578	277,468	8.6	140,372	277,500
2022	1,685,275	5.9	99,431	218,817	8.0	134,822	280,640	8.6	144,934	280,673
2023	1,740,046	5.9	102,663	221,040	8.0	139,204	283,492	8.6	149,644	283,525
2024	1,796,597	5.9	105,999	222,981	8.0	143,728	285,982	8.6	154,507	286,015
2025	1,854,986	5.9	109,444	224,605	8.0	148,399	288,065	8.6	159,529	288,098
2026	1,915,273	5.9	113,001	225,874	8.0	153,222	289,693	8.6	164,713	289,726
2027	1,977,519	5.9	116,674	226,747	8.0	158,202	290,813	8.6	170,067	290,846
2028	2,041,788	5.9	120,465	227,180	8.0	163,343	291,368	8.6	175,594	291,401

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	10.1%	\$154,640	\$ 315,017	10.1%	\$154,640	\$ 329,334	11.5%	\$176,075	\$ 359,126
2020	1,580,850	10.1	159,666	319,333	10.1	159,666	333,846	11.5	181,798	364,046
2021	1,632,228	10.1	164,855	323,360	10.1	164,855	338,056	11.5	187,706	368,636
2022	1,685,275	10.1	170,213	327,057	10.1	170,213	341,921	11.5	193,807	372,851
2023	1,740,046	10.1	175,745	330,380	10.1	175,745	345,395	11.5	200,105	376,640
2024	1,796,597	10.1	181,456	333,282	10.1	181,456	348,428	11.5	206,609	379,948
2025	1,854,986	10.1	187,354	335,710	10.1	187,354	350,966	11.5	213,323	382,716
2026	1,915,273	10.1	193,443	337,607	10.1	193,443	352,950	11.5	220,256	384,879
2027	1,977,519	10.1	199,729	338,913	10.1	199,729	354,315	11.5	227,415	386,367
2028	2,041,788	10.1	206,221	339,560	10.1	206,221	354,992	11.5	234,806	387,105

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	12.3%	\$188,324	\$ 388,222	13.0%	\$199,042	\$ 403,134	14.5%	\$222,008	\$ 447,013
2020	1,580,850	12.3	194,445	393,541	13.0	205,511	408,657	14.5	229,223	453,137
2021	1,632,228	12.3	200,764	398,503	13.0	212,190	413,810	14.5	236,673	458,851
2022	1,685,275	12.3	207,289	403,059	13.0	219,086	418,541	14.5	244,365	464,097
2023	1,740,046	12.3	214,026	407,154	13.0	226,206	422,794	14.5	252,307	468,813
2024	1,796,597	12.3	220,981	410,730	13.0	233,558	426,507	14.5	260,507	472,930
2025	1,854,986	12.3	228,163	413,722	13.0	241,148	429,614	14.5	268,973	476,375
2026	1,915,273	12.3	235,579	416,060	13.0	248,985	432,042	14.5	277,715	479,067
2027	1,977,519	12.3	243,235	417,669	13.0	257,077	433,713	14.5	286,740	480,920
2028	2,041,788	12.3	251,140	418,467	13.0	265,432	434,541	14.5	296,059	481,838

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	6.1%	\$93,396	\$ 218,364	8.4%	\$128,612	\$ 279,549	9.0%	\$137,798	\$ 279,969
2020	1,580,850	6.1	96,432	221,356	8.4	132,791	283,379	9.0	142,277	283,805
2021	1,632,228	6.1	99,566	224,147	8.4	137,107	286,952	9.0	146,901	287,384
2022	1,685,275	6.1	102,802	226,710	8.4	141,563	290,233	9.0	151,675	290,670
2023	1,740,046	6.1	106,143	229,014	8.4	146,164	293,182	9.0	156,604	293,623
2024	1,796,597	6.1	109,592	231,025	8.4	150,914	295,757	9.0	161,694	296,202
2025	1,854,986	6.1	113,154	232,708	8.4	155,819	297,911	9.0	166,949	298,360
2026	1,915,273	6.1	116,832	234,023	8.4	160,883	299,595	9.0	172,375	300,046
2027	1,977,519	6.1	120,629	234,928	8.4	166,112	300,754	9.0	177,977	301,206
2028	2,041,788	6.1	124,549	235,377	8.4	171,510	301,328	9.0	183,761	301,781

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	10.5%	\$160,764	\$ 325,772	10.7%	\$163,827	\$ 340,434	12.0%	\$183,731	\$ 371,230
2020	1,580,850	10.5	165,989	330,235	10.7	169,151	345,098	12.0	189,702	376,316
2021	1,632,228	10.5	171,384	334,399	10.7	174,648	349,449	12.0	195,867	381,061
2022	1,685,275	10.5	176,954	338,222	10.7	180,324	353,444	12.0	202,233	385,418
2023	1,740,046	10.5	182,705	341,659	10.7	186,185	357,035	12.0	208,806	389,334
2024	1,796,597	10.5	188,643	344,660	10.7	192,236	360,171	12.0	215,592	392,753
2025	1,854,986	10.5	194,774	347,171	10.7	198,484	362,795	12.0	222,598	395,614
2026	1,915,273	10.5	201,104	349,133	10.7	204,934	364,845	12.0	229,833	397,850
2027	1,977,519	10.5	207,639	350,483	10.7	211,595	366,256	12.0	237,302	399,389
2028	2,041,788	10.5	214,388	351,152	10.7	218,471	366,955	12.0	245,015	400,152

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	12.9%	\$197,511	\$ 401,080	13.5%	\$206,697	\$ 416,465	15.1%	\$231,195	\$ 461,647
2020	1,580,850	12.9	203,930	406,575	13.5	213,415	422,171	15.1	238,708	467,971
2021	1,632,228	12.9	210,557	411,702	13.5	220,351	427,494	15.1	246,466	473,872
2022	1,685,275	12.9	217,400	416,409	13.5	227,512	432,382	15.1	254,477	479,290
2023	1,740,046	12.9	224,466	420,640	13.5	234,906	436,775	15.1	262,747	484,160
2024	1,796,597	12.9	231,761	424,334	13.5	242,541	440,611	15.1	271,286	488,412
2025	1,854,986	12.9	239,293	427,425	13.5	250,423	443,821	15.1	280,103	491,970
2026	1,915,273	12.9	247,070	429,841	13.5	258,562	446,329	15.1	289,206	494,750
2027	1,977,519	12.9	255,100	431,503	13.5	266,965	448,055	15.1	298,605	496,663
2028	2,041,788	12.9	263,391	432,327	13.5	275,641	448,911	15.1	308,310	497,611

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	9.7%	\$148,516	\$ 222,253	11.9%	\$182,200	\$ 277,818	12.4%	\$189,855	\$ 281,506
2020	1,580,850	9.7	153,342	225,298	11.9	188,121	281,624	12.4	196,025	285,363
2021	1,632,228	9.7	158,326	228,139	11.9	194,235	285,175	12.4	202,396	288,961
2022	1,685,275	9.7	163,472	230,747	11.9	200,548	288,435	12.4	208,974	292,265
2023	1,740,046	9.7	168,784	233,092	11.9	207,065	291,366	12.4	215,766	295,235
2024	1,796,597	9.7	174,270	235,139	11.9	213,795	293,925	12.4	222,778	297,828
2025	1,854,986	9.7	179,934	236,852	11.9	220,743	296,066	12.4	230,018	299,997
2026	1,915,273	9.7	185,781	238,191	11.9	227,917	297,739	12.4	237,494	301,692
2027	1,977,519	9.7	191,819	239,112	11.9	235,325	298,890	12.4	245,212	302,859
2028	2,041,788	9.7	198,053	239,569	11.9	242,973	299,461	12.4	253,182	303,437

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	14.0%	\$214,353	\$ 322,225	14.0%	\$214,353	\$ 335,890	15.4%	\$235,788	\$ 363,028
2020	1,580,850	14.0	221,319	326,639	14.0	221,319	340,492	15.4	243,451	368,001
2021	1,632,228	14.0	228,512	330,758	14.0	228,512	344,785	15.4	251,363	372,641
2022	1,685,275	14.0	235,939	334,540	14.0	235,939	348,727	15.4	259,532	376,901
2023	1,740,046	14.0	243,606	337,939	14.0	243,606	352,270	15.4	267,967	380,731
2024	1,796,597	14.0	251,524	340,907	14.0	251,524	355,364	15.4	276,676	384,075
2025	1,854,986	14.0	259,698	343,390	14.0	259,698	357,953	15.4	285,668	386,873
2026	1,915,273	14.0	268,138	345,331	14.0	268,138	359,976	15.4	294,952	389,059
2027	1,977,519	14.0	276,853	346,666	14.0	276,853	361,368	15.4	304,538	390,564
2028	2,041,788	14.0	285,850	347,328	14.0	285,850	362,058	15.4	314,435	391,310

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	16.2%	\$248,037	\$ 388,919	16.9%	\$258,754	\$ 403,741	18.4%	\$281,721	\$ 444,556
2020	1,580,850	16.2	256,098	394,247	16.9	267,164	409,272	18.4	290,876	450,646
2021	1,632,228	16.2	264,421	399,218	16.9	275,847	414,433	18.4	300,330	456,328
2022	1,685,275	16.2	273,015	403,782	16.9	284,811	419,171	18.4	310,091	461,545
2023	1,740,046	16.2	281,887	407,885	16.9	294,068	423,430	18.4	320,168	466,235
2024	1,796,597	16.2	291,049	411,467	16.9	303,625	427,149	18.4	330,574	470,330
2025	1,854,986	16.2	300,508	414,464	16.9	313,493	430,260	18.4	341,317	473,756
2026	1,915,273	16.2	310,274	416,806	16.9	323,681	432,692	18.4	352,410	476,434
2027	1,977,519	16.2	320,358	418,418	16.9	334,201	434,365	18.4	363,863	478,276
2028	2,041,788	16.2	330,770	419,217	16.9	345,062	435,194	18.4	375,689	479,189

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Spanish Lake Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	10.0%	\$153,109	\$ 229,049	12.3%	\$188,324	\$ 286,247	12.9%	\$197,511	\$ 290,328
2020	1,580,850	10.0	158,085	232,187	12.3	194,445	290,169	12.9	203,930	294,305
2021	1,632,228	10.0	163,223	235,115	12.3	200,764	293,828	12.9	210,557	298,016
2022	1,685,275	10.0	168,528	237,803	12.3	207,289	297,187	12.9	217,400	301,423
2023	1,740,046	10.0	174,005	240,219	12.3	214,026	300,207	12.9	224,466	304,486
2024	1,796,597	10.0	179,660	242,329	12.3	220,981	302,844	12.9	231,761	307,160
2025	1,854,986	10.0	185,499	244,094	12.3	228,163	305,050	12.9	239,293	309,397
2026	1,915,273	10.0	191,527	245,474	12.3	235,579	306,774	12.9	247,070	311,146
2027	1,977,519	10.0	197,752	246,423	12.3	243,235	307,960	12.9	255,100	312,349
2028	2,041,788	10.0	204,179	246,894	12.3	251,140	308,548	12.9	263,391	312,945

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	14.4%	\$220,477	\$ 332,196	14.6%	\$223,539	\$ 343,473	15.9%	\$243,443	\$ 374,124
2020	1,580,850	14.4	227,642	336,747	14.6	230,804	348,179	15.9	251,355	379,249
2021	1,632,228	14.4	235,041	340,993	14.6	238,305	352,569	15.9	259,524	384,031
2022	1,685,275	14.4	242,680	344,892	14.6	246,050	356,600	15.9	267,959	388,422
2023	1,740,046	14.4	250,567	348,396	14.6	254,047	360,223	15.9	276,667	392,369
2024	1,796,597	14.4	258,710	351,456	14.6	262,303	363,387	15.9	285,659	395,815
2025	1,854,986	14.4	267,118	354,016	14.6	270,828	366,034	15.9	294,943	398,698
2026	1,915,273	14.4	275,799	356,017	14.6	279,630	368,103	15.9	304,528	400,951
2027	1,977,519	14.4	284,763	357,394	14.6	288,718	369,526	15.9	314,426	402,501
2028	2,041,788	14.4	294,017	358,076	14.6	298,101	370,232	15.9	324,644	403,270

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	\$ 1,531,090	16.8%	\$257,223	\$ 400,740	17.4%	\$266,410	\$ 416,052	19.0%	\$290,907	\$ 458,018
2020	1,580,850	16.8	265,583	406,230	17.4	275,068	421,752	19.0	300,362	464,293
2021	1,632,228	16.8	274,214	411,352	17.4	284,008	427,070	19.0	310,123	470,147
2022	1,685,275	16.8	283,126	416,055	17.4	293,238	431,953	19.0	320,202	475,522
2023	1,740,046	16.8	292,328	420,282	17.4	302,768	436,342	19.0	330,609	480,354
2024	1,796,597	16.8	301,828	423,973	17.4	312,608	440,174	19.0	341,353	484,573
2025	1,854,986	16.8	311,638	427,061	17.4	322,768	443,380	19.0	352,447	488,103
2026	1,915,273	16.8	321,766	429,475	17.4	333,258	445,886	19.0	363,902	490,862
2027	1,977,519	16.8	332,223	431,136	17.4	344,088	447,610	19.0	375,729	492,760
2028	2,041,788	16.8	343,020	431,959	17.4	355,271	448,465	19.0	387,940	493,701

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 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 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.