

**REPORT OF**  
**COUNTY EMPLOYEES' RETIREMENT FUND**  
**ON**  
**SCHEDULES OF PENSION INFORMATION**  
**FOR PARTICIPATING EMPLOYERS**  
**DECEMBER 31, 2017**

## INDEPENDENT AUDITORS' REPORT

The Board of Directors  
County Employees' Retirement Fund

### Report on Schedules

We have audited the accompanying schedule of employer allocations of the County Employees' Retirement Fund (CERF) for the year ended December 31, 2017, and the related notes. We have also audited the total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense excluding that attributable to employer-paid member contributions (specified column totals) included in the accompanying schedule of pension amounts by employer of CERF as of and for the year ended December 31, 2017, and the related notes.

### Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the schedules that are free from material misstatement, whether due to fraud or error.

### Auditors' Responsibility

Our responsibility is to express opinions on the schedules of employer allocations and the specified column totals included in the schedules of pension amounts by employer based on our audit. We conducted our audit in accordance with U.S. generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

An audit involves performing procedures to obtain evidence about the amounts and disclosures in the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to CERF's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedules of pension amounts by employer in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of CERF's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

**Opinions**

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense excluding that attributable to employer-paid member contributions for the total of all participating entities for CERF as of and for the year ended December 31, 2017, in accordance with U.S. generally accepted accounting principles.

**Other Matter**

We have audited, in accordance with U.S. generally accepted auditing standards, the financial statements of CERF as of and for the year ended December 31, 2017, and our report thereon, dated June 5, 2018, expressed an unmodified opinion on those financial statements.

**Restriction on Use**

Our report is intended solely for the information and use of CERF's management, the Board of Directors, and CERF's participating employers and their auditors, and is not intended to be and should not be used by anyone other than these specified parties.

*Williams Keepers LLC*

September 28, 2018

**COUNTY EMPLOYEES' RETIREMENT FUND**

**SCHEDULE OF EMPLOYER ALLOCATIONS  
FOR THE YEAR ENDED DECEMBER 31, 2017**

<b>Employer</b>	<b>Employer Name</b>	<b>2017 Actual Employer Contributions</b>	<b>Employer Allocation Percentage</b>
1	Adair County	\$ 112,707	0.53671%
2	Andrew County	124,286	0.59185%
3	Atchison County	38,383	0.18278%
4	Audrain County	109,899	0.52334%
5	Barry County	192,627	0.91730%
6	Barton County	78,781	0.37516%
7	Bates County	100,679	0.47944%
8	Benton County	113,956	0.54266%
9	Bollinger County	79,482	0.37850%
10	Boone County	813,860	3.87563%
11	Buchanan County	532,933	2.53784%
12	Butler County	260,520	1.24060%
13	Caldwell County	53,240	0.25353%
14	Callaway County	216,549	1.03121%
15	Camden County	462,079	2.20043%
16	Cape Girardeau County	402,069	1.91466%
17	Carroll County	57,675	0.27465%
18	Carter County	44,442	0.21163%
19	Cass County	577,048	2.74792%
20	Cedar County	79,306	0.37766%
21	Chariton County	42,113	0.20054%
22	Christian County	403,357	1.92080%
23	Clark County	38,754	0.18455%
24	Clay County	1,562,224	7.43936%
25	Clinton County	107,287	0.51090%
26	Cole County	364,752	1.73696%
27	Cooper County	103,322	0.49202%
28	Crawford County	127,337	0.60638%
29	Dade County	37,810	0.18005%
30	Dallas County	89,627	0.42681%
31	Daviess County	57,207	0.27242%
32	DeKalb County	77,456	0.36885%
33	Dent County	83,823	0.39917%
34	Douglas County	55,163	0.26269%
35	Dunklin County	169,115	0.80533%
36	Franklin County	674,185	3.21049%
37	Gasconade County	103,930	0.49492%
38	Gentry County	43,461	0.20696%
39	Greene County	1,392,513	6.63119%
40	Grundy County	53,581	0.25515%
41	Harrison County	49,707	0.23671%
42	Henry County	107,260	0.51078%
43	Hickory County	58,858	0.28028%
44	Holt County	37,575	0.17893%
45	Howard County	56,247	0.26785%
46	Howell County	232,165	1.10558%
47	Iron County	44,077	0.20990%
48	Jasper County	699,552	3.33129%
49	Jefferson County	1,328,567	6.32668%
50	Johnson County	265,150	1.26265%
51	Knox County	31,365	0.14936%
52	Laclede County	179,809	0.85626%
53	Lafayette County	207,725	0.98919%
54	Lawrence County	187,477	0.89277%
55	Lewis County	56,235	0.26779%
56	Lincoln County	371,703	1.77006%

**COUNTY EMPLOYEES' RETIREMENT FUND**

**SCHEDULE OF EMPLOYER ALLOCATIONS (Continued)  
FOR THE YEAR ENDED DECEMBER 31, 2017**

<b>Employer</b>	<b>Employer Name</b>	<b>2017 Actual Employer Contributions</b>	<b>Employer Allocation Percentage</b>
57	Linn County	\$ 61,531	0.29301%
58	Livingston County	65,784	0.31327%
59	Macon County	78,694	0.37474%
60	Madison County	47,928	0.22823%
61	Maries County	53,112	0.25292%
62	Marion County	129,915	0.61866%
63	McDonald County	145,897	0.69477%
64	Mercer County	32,973	0.15702%
65	Miller County	146,329	0.69682%
66	Mississippi County	82,019	0.39058%
67	Moniteau County	80,025	0.38108%
68	Monroe County	57,686	0.27470%
69	Montgomery County	86,369	0.41129%
70	Morgan County	153,994	0.73332%
71	New Madrid County	89,446	0.42594%
72	Newton County	277,077	1.31945%
73	Nodaway County	88,064	0.41936%
74	Oregon County	48,715	0.23198%
75	Osage County	52,762	0.25125%
76	Ozark County	54,484	0.25945%
77	Pemiscot County	104,206	0.49623%
78	Perry County	87,145	0.41499%
79	Pettis County	197,531	0.94065%
80	Phelps County	193,107	0.91958%
81	Pike County	86,783	0.41326%
82	Platte County	739,742	3.52267%
83	Polk County	151,102	0.71955%
84	Pulaski County	155,435	0.74019%
85	Putnam County	40,212	0.19149%
86	Ralls County	53,784	0.25612%
87	Randolph County	151,696	0.72238%
88	Ray County	184,069	0.87654%
89	Reynolds County	40,143	0.19116%
90	Ripley County	63,950	0.30453%
91	Saline County	119,553	0.56932%
92	Schuyler County	24,262	0.11554%
93	Scotland County	24,524	0.11678%
94	Scott County	210,009	1.00007%
95	Shannon County	45,053	0.21454%
96	Shelby County	34,365	0.16365%
97	St. Clair County	47,899	0.22810%
98	St. Francois County	310,863	1.48034%
99	Ste. Genevieve County	114,892	0.54712%
100	Stoddard County	197,616	0.94105%
101	Stone County	256,640	1.22213%
102	Sullivan Conty	43,402	0.20668%
103	Taney County	621,676	2.96044%
104	Texas County	92,425	0.44013%
105	Vernon County	118,999	0.56668%
106	Warren County	223,537	1.06449%
107	Washington County	113,120	0.53868%
108	Wayne County	79,351	0.37787%
109	Webster County	184,429	0.87826%
110	Worth County	11,893	0.05663%
111	Wright County	92,219	0.43915%
	<b>Totals</b>	<b>\$ 20,999,446</b>	<b>100.00000%</b>

**COUNTY EMPLOYEES' RETIREMENT FUND**  
**SCHEDULE OF PENSION AMOUNTS BY EMPLOYER**  
**AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2017**

		Deferred Outflows of Resources				Deferred Inflows of Resources					Pension Expense (excluding that attributable to employer-paid member contributions)				
Employer	Employer Name	Beginning	Ending	Actual Experience	Change in Assumptions	Change in Proportion and Difference Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of Resources	Difference Between Expected and Actual Experience	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Change in Assumptions	Change in Proportion and Difference Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Pension Expense
1	Adair County	\$ 1,161,213	\$ 1,062,665	\$ 19,711	\$ 165,368	\$ 72,902	\$ 257,981	\$ 59,973	\$ 12,859	\$ -	\$ 2,691	\$ 75,523	\$ 240,737	\$ 19,677	\$ 260,414
2	Andrew County	1,227,331	1,171,838	21,736	182,357	115,888	319,981	66,135	14,180	-	11,492	91,807	265,470	21,643	287,113
3	Atchison County	389,064	361,897	6,713	56,317	23,007	86,037	20,424	4,379	-	27,282	52,085	81,984	(9,124)	72,860
4	Audrain County	1,210,337	1,036,190	19,220	161,248	40,368	220,836	58,479	12,539	-	33,870	104,888	234,740	18,325	253,065
5	Barry County	1,994,220	1,816,196	33,688	282,629	83,436	399,753	102,500	21,978	-	8,370	132,848	411,443	15,986	427,429
6	Barton County	726,873	742,792	13,778	115,590	121,417	250,785	41,921	8,988	-	66,468	117,377	168,273	8,117	176,390
7	Bates County	1,098,089	949,257	17,608	147,720	63,746	229,074	53,573	11,487	-	19,944	85,004	215,046	20,026	235,072
8	Benton County	1,241,286	1,074,441	19,929	167,200	-	187,129	60,638	13,002	-	28,375	102,215	243,405	(10,899)	232,506
9	Bollinger County	875,692	749,401	13,900	116,619	19,372	149,891	42,294	9,068	-	27,908	79,270	169,770	(2,656)	167,114
10	Boone County	8,445,386	7,673,530	142,334	1,194,126	355,316	1,691,776	433,068	92,856	-	178,524	704,448	1,738,370	79,303	1,817,873
11	Buchanan County	6,044,386	5,024,792	93,203	781,939	54,656	929,798	283,582	60,804	-	345,465	689,851	1,138,322	(56,983)	1,081,339
12	Butler County	2,839,480	2,456,329	45,562	382,245	74,795	502,602	138,627	29,724	-	49,565	217,916	556,460	52,329	608,789
13	Caldwell County	598,670	501,977	9,311	78,116	729	88,156	28,530	6,074	-	40,191	74,595	113,718	(11,324)	102,394
14	Callaway County	2,217,089	2,041,746	37,872	317,729	194,953	550,554	115,229	24,707	-	6,272	146,208	462,539	55,435	517,974
15	Camden County	4,755,309	4,356,741	80,812	677,979	202,954	961,745	245,880	52,720	-	131,120	429,720	986,981	3,092	990,073
16	Cape Girardeau County	4,498,601	3,790,933	70,317	589,931	181,534	841,782	213,947	45,874	-	203,711	463,532	858,982	5,601	864,403
17	Carroll County	547,852	543,792	10,087	84,623	72,626	167,336	30,690	6,580	-	16,770	54,400	123,191	11,863	135,054
18	Carter County	432,245	419,024	7,772	65,207	95,908	168,887	23,648	5,071	-	-	28,719	94,926	33,191	128,117
19	Cass County	6,158,132	5,440,733	100,919	846,666	210,127	1,157,712	307,057	65,838	-	32,728	405,623	1,232,550	43,218	1,275,768
20	Cedar County	776,214	747,742	13,870	116,361	86,996	217,227	42,200	9,048	-	5,303	56,751	169,394	19,641	189,035
21	Chariton County	433,728	397,065	7,365	61,790	33,008	102,163	22,409	4,805	-	2,649	29,863	89,952	7,885	97,837
22	Christian County	4,358,633	3,803,077	70,542	591,820	149,670	812,032	214,633	46,021	-	37,760	298,414	861,553	49,073	910,626
23	Clark County	390,077	365,395	6,778	56,861	30,264	93,903	20,622	4,422	-	22,585	47,629	82,777	2,889	85,666
24	Clay County	16,874,830	14,729,524	273,210	2,292,150	100,020	2,665,380	831,282	178,243	-	256,406	1,265,931	3,336,847	13,604	3,350,451
25	Clinton County	1,146,860	1,011,562	18,763	157,415	2,863	179,041	57,089	12,241	-	146,828	216,158	229,160	(57,335)	171,825
26	Cole County	3,919,027	3,439,087	63,791	535,178	2,551	601,520	194,090	41,616	-	21,579	257,285	779,095	(4,467)	774,628
27	Cooper County	1,134,606	974,178	18,070	151,598	114,637	284,305	54,979	11,788	-	31,866	98,633	220,691	30,658	251,349
28	Crawford County	1,564,820	1,200,605	22,270	186,834	-	209,104	67,758	14,528	-	234,146	316,432	271,986	(72,051)	199,935
29	Dade County	452,451	356,494	6,613	55,476	-	64,676	20,119	4,314	-	48,960	73,393	80,761	(11,108)	69,653
30	Dallas County	1,017,080	845,054	15,675	131,504	-	147,179	47,692	10,226	-	74,487	132,405	191,439	(27,852)	163,587
31	Daviess County	606,091	539,380	10,005	83,936	12,131	106,072	30,441	6,527	-	8,116	45,084	122,192	3,710	125,902
32	DeKalb County	820,143	730,299	13,546	113,646	11,228	138,420	41,216	8,837	-	436	50,489	165,443	3,627	169,070
33	Dent County	867,134	790,330	14,660	122,988	35,000	172,648	44,604	9,564	-	8,525	62,693	179,042	1,811	180,853
34	Douglas County	577,506	520,108	9,647	80,937	37,895	128,479	29,353	6,294	-	7,526	43,173	117,826	5,424	123,250
35	Dunklin County	1,890,850	1,594,511	29,576	248,132	-	277,708	89,989	19,295	-	170,043	279,327	361,222	(57,895)	303,327
36	Franklin County	6,957,521	6,356,595	117,907	989,189	276,029	1,383,123	358,745	76,920	-	115,208	550,873	1,440,030	23,345	1,463,375
37	Gasconade County	1,138,591	979,911	18,176	152,490	6,070	176,736	55,303	11,858	-	55,026	122,187	221,990	(11,981)	210,009
38	Gentry County	494,971	409,775	7,601	63,768	-	71,369	23,126	4,959	-	37,298	65,383	92,831	(13,914)	78,917
39	Greene County	15,177,221	13,129,396	243,533	2,043,147	978,238	3,264,938	740,979	158,877	-	264,768	1,164,624	2,974,348	339,464	3,313,812
40	Grundy County	580,070	505,192	9,371	78,616	-	87,987	28,511	6,113	-	33,102	67,726	114,447	(13,496)	100,951
41	Harrison County	537,192	468,666	8,693	72,932	11,592	93,217	26,450	5,671	-	8,589	40,710	106,172	(731)	105,441
42	Henry County	1,397,473	1,011,308	18,758	157,376	2,686	178,820	57,075	12,238	-	349,946	419,259	229,103	(101,799)	127,304
43	Hickory County	612,820	554,946	10,294	86,359	18,494	115,147	31,319	6,715	-	21,913	59,947	125,718	(3,321)	122,397
44	Holt County	410,332	354,278	6,571	55,131	-	61,702	19,994	4,287	-	36,209	60,490	80,259	(13,446)	66,813
45	Howard County	615,485	530,328	9,837	82,528	1,797	94,162	29,930	6,417	-	17,447	53,794	120,141	(6,963)	113,178
46	Howell County	2,280,153	2,188,982	40,603	340,641	220,196	601,440	123,539	26,489	-	32,069	182,097	495,894	52,304	548,198
47	Iron County	500,880	415,383	7,709	64,671	30,300	102,680	23,454	5,029	-	34,320	62,803	94,147	(1,568)	92,579
48	Jasper County	7,775,808	6,595,770	122,343	1,026,409	118,468	1,267,220	372,243	79,815	-	289,591	741,649	1,494,213	(33,579)	1,460,634

COUNTY EMPLOYEES' RETIREMENT FUND

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER (Continued)  
AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2017

Employer	Employer Name	Net Pension Liability		Deferred Outflows of Resources				Deferred Inflows of Resources				Pension Expense (excluding that attributable to employer-paid member contributions)			
		Beginning	Ending	Difference Between Expected and Actual Experience	Change in Assumptions	Proportionate Share of Contributions	Total Deferred Outflows of Resources	Change in Assumptions	Net Difference Between Projected and Actual Earnings on Pension Plan Investments	Change in Assumptions	Proportionate Share of Contributions	Total Deferred Inflows of Resources	Proportionate Share of Pension Expense	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Total Pension Expense	
														Proportionate Share of Contributions	Total Pension Expense
49	Jefferson County	\$ 14,307,333	\$ 12,526,477	\$ 232,350	\$ 1,949,323	\$ -	\$ 2,181,673	\$ 706,952	\$ 151,581	\$ -	\$ 208,388	\$ 1,066,921	\$ 2,837,762	\$ (81,359)	\$ 2,756,403
50	Johnson County	2,856,934	2,499,983	46,371	389,038	50,944	486,353	141,091	30,252	-	28,122	199,465	566,349	2,889	569,238
51	Knox County	397,657	295,727	5,485	46,020	63,341	114,846	16,690	3,579	-	66,310	86,579	66,994	3,119	70,113
52	Laclede County	1,835,766	1,695,340	31,446	263,822	124,342	419,610	95,679	20,515	-	148,707	264,901	384,064	220	384,284
53	Lafayette County	2,161,027	1,958,548	36,329	304,782	131,837	472,948	110,534	23,700	-	1,009	135,243	443,692	41,004	484,696
54	Lawrence County	2,051,776	1,767,639	32,787	275,073	-	307,860	99,760	21,390	-	92,396	213,546	400,443	(30,783)	369,660
55	LeWiss County	577,447	530,215	9,835	82,510	27,213	119,558	29,924	6,416	-	15,798	152,138	120,116	2,517	122,633
56	Lincoln County	4,111,302	3,504,625	65,006	545,376	30,250	640,632	197,789	42,409	-	150,831	391,029	793,942	(42,426)	751,516
57	Linn County	692,820	580,149	10,761	90,281	10,439	111,481	32,742	7,020	-	43,876	83,638	131,428	(14,406)	117,022
58	Livingston County	607,486	620,249	11,505	96,521	100,832	208,858	35,005	7,506	-	17,891	60,402	140,512	18,867	159,379
59	Macon County	873,477	741,971	13,763	115,463	4,458	133,684	41,874	8,978	-	42,760	93,612	168,087	(8,549)	159,538
60	Madison County	521,667	451,892	8,382	70,322	-	78,704	25,503	5,468	-	62,275	93,246	102,372	(27,487)	74,885
61	Marion County	570,977	500,770	9,289	77,928	32,862	120,079	28,262	6,060	-	2,542	36,864	113,445	10,845	124,290
62	Marion County	1,494,271	1,224,912	22,721	190,616	47,677	261,014	69,130	14,822	-	105,756	189,708	277,493	(8,489)	269,004
63	McDonald County	1,552,146	1,375,599	25,516	214,065	28,125	267,706	77,634	16,646	-	-	94,280	311,630	11,372	323,002
64	Mercer County	349,539	310,888	5,767	48,379	48,598	102,744	17,545	3,762	-	3,935	25,242	70,429	13,060	83,489
65	Miller County	1,625,098	1,379,672	25,591	214,699	20,825	261,115	77,864	16,695	-	152,589	247,148	312,552	(30,567)	281,985
66	Mississippi County	925,868	773,321	14,344	120,341	6,484	141,169	43,644	9,358	-	51,275	104,277	175,189	(8,184)	167,005
67	Monticau County	859,437	754,521	13,995	117,416	26,161	157,572	42,583	9,130	-	2,001	53,714	170,930	11,924	182,854
68	Monroe County	616,682	543,896	10,089	84,639	1,882	96,610	30,696	6,582	-	111	37,389	123,215	731	123,946
69	Montgomery County	896,133	814,336	15,105	126,724	30,643	172,472	45,958	9,854	-	1,095	56,907	184,480	8,185	192,665
70	Morgan County	1,605,096	1,451,942	26,932	225,946	57,573	310,451	81,943	17,570	-	41,447	140,960	328,925	8,062	336,987
71	New Madrid County	1,186,301	843,347	15,643	131,238	162,666	309,547	47,596	10,205	-	250,309	308,110	191,055	(19,191)	171,862
72	Newton County	2,712,135	2,612,438	48,457	406,538	273,262	728,257	147,437	31,613	-	33,625	212,675	591,825	67,679	659,504
73	Nodaway County	1,062,354	830,317	15,401	129,211	119,562	264,174	46,860	10,048	-	135,373	192,281	188,101	(2,014)	186,087
74	Oregon County	513,038	459,312	8,520	71,476	9,281	89,277	25,922	5,558	-	17,052	48,532	104,053	(5,189)	98,864
75	Osage County	545,574	497,470	9,227	77,414	27,029	113,670	28,076	6,020	-	48,555	82,651	112,697	(5,869)	106,828
76	Orark County	619,041	513,706	9,529	79,941	51,318	140,788	28,992	6,216	-	39,079	74,287	116,375	6,192	122,567
77	Pemiscot County	1,126,794	982,513	18,224	152,895	-	171,119	55,450	11,889	-	22,396	89,735	222,580	(12,011)	210,569
78	Perry County	879,635	821,652	15,241	127,862	65,232	208,335	46,371	9,943	-	36,358	92,672	186,138	10,807	196,945
79	Pettis County	2,140,137	1,862,433	34,546	289,825	16,541	340,912	105,109	22,537	-	46,890	174,536	421,918	(21,955)	399,963
80	Phelps County	2,185,676	1,820,231	33,772	283,334	9,660	326,766	102,755	22,032	-	177,534	302,321	412,468	(83,350)	329,118
81	Pike County	932,943	818,239	15,177	127,331	8,247	150,755	46,179	9,901	-	55,302	67,179	185,365	(4,779)	180,586
82	Platte County	7,690,538	6,974,704	129,372	1,085,377	512,173	1,726,922	393,629	84,400	-	-	478,029	1,580,570	180,892	1,760,949
83	Polk County	1,533,930	1,424,675	26,426	221,702	88,183	336,311	80,404	17,240	-	25,021	122,665	322,747	2,116	324,863
84	Pulaski County	1,542,073	1,465,529	27,184	228,060	159,575	414,819	82,709	17,734	-	420	100,863	332,002	46,223	378,225
85	Putnam County	390,627	379,141	7,033	59,001	43,697	109,731	21,397	4,588	-	17,569	43,554	85,891	6,951	92,842
86	Rails County	621,240	507,106	9,406	78,914	8,566	96,886	28,619	6,136	-	49,558	84,313	114,880	(5,785)	109,095
87	Randolph County	1,596,906	1,430,275	26,530	222,574	51,669	300,773	80,720	17,308	-	-	98,028	324,016	20,991	345,007
88	Riv County	1,908,428	1,735,506	32,191	270,073	74,178	376,442	97,946	21,001	-	42,990	161,937	393,163	10,059	403,222
89	Renolds County	398,678	378,491	7,021	58,899	35,786	101,706	21,361	4,580	-	2,608	28,549	85,744	7,643	93,387
90	Ripley County	659,512	602,957	11,184	93,830	50,552	155,566	34,029	7,296	-	9,390	50,715	136,594	7,146	143,740
91	Saline County	1,233,931	1,127,213	20,908	175,413	81,032	277,353	63,616	13,640	-	-	77,256	255,360	27,070	282,430
92	Schuyler County	264,230	228,756	4,243	35,598	24,516	64,357	12,910	2,768	-	6,363	22,041	51,823	5,855	57,678
93	Scotland County	268,106	231,226	4,289	35,983	25,577	65,849	13,050	2,798	-	10,103	25,951	52,382	3,456	55,838
94	Scott County	2,265,850	1,980,083	36,728	308,133	48,197	393,058	111,749	23,961	-	35,330	171,040	448,570	(5,068)	443,502
95	Shannon County	459,513	424,785	7,879	66,103	25,852	99,834	23,973	5,140	-	8,403	37,516	96,231	5,235	101,466
96	Shelby County	385,392	324,013	6,010	50,422	-	56,432	18,286	3,921	-	20,468	42,675	73,402	(5,889)	67,513
97	St. Clair County	533,185	451,619	8,377	70,279	12,913	91,569	25,488	5,465	-	22,071	53,024	102,310	(2,326)	99,984
98	St. Francois County	3,320,845	2,930,991	54,366	456,110	10,556	521,032	165,415	35,468	-	179,707	380,590	663,990	(90,401)	573,589
99	Ste Genevieve County	1,163,488	1,083,266	20,093	168,574	70,005	258,672	61,136	13,108	-	27,664	101,908	245,404	6,886	252,290

COUNTY EMPLOYEES' RETIREMENT FUND

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER (Continued)  
AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2017

Employer	Employer Name	Net Pension Liability		Deferred Outflows of Resources				Deferred Inflows of Resources				Pension Expense (excluding that attributable to employer-paid member contributions)			
		Beginning	Ending	Difference between Expected and Actual Experience	Change in Assumptions	Proportionate Share of Contributions	Total Deferred Outflows of Resources	Change in	Net Difference Between Projected and Actual Earnings on Pension Plan Investments	Change in	Proportionate Share of Contributions	Total Deferred Inflows of Resources	Proportionate Share of Pension Expense	Net Amortization of Deferred Amounts from Changes in Proportion and Difference Between Employer Contributions and Proportionate Share of Contributions	Total Pension Expense
100	Stoddard County	\$ 2,105,828	\$ 1,863,235	\$ 34,561	\$ 289,950	\$ 12,125	\$ 336,636	\$ 105,155	\$ 22,547	\$ -	\$ 42,490	\$ 170,192	\$ 422,099	\$ (18,975)	\$ 403,124
101	Stone County	2,791,644	2,419,746	44,883	376,552	4,574	426,009	136,562	29,281	-	337,650	503,493	548,172	(114,637)	433,515
102	Sullivan County	433,377	409,218	7,590	63,681	42,116	113,387	23,095	4,952	-	66,792	94,839	92,705	(6,509)	86,196
103	Taney County	6,601,013	5,861,511	108,723	912,146	62,648	1,083,517	330,804	70,929	-	707,306	1,109,039	1,327,873	(282,241)	1,045,632
104	Texas County	983,285	871,435	16,164	135,609	45,573	197,346	49,181	10,545	-	5,985	65,711	197,416	10,273	207,689
105	Vernon County	1,228,060	1,121,990	20,811	174,600	79,679	275,090	63,321	13,577	-	8,278	85,176	254,177	16,816	270,993
106	Warren County	2,453,006	2,107,633	39,094	327,982	12,750	379,826	118,948	25,504	-	78,531	222,983	477,465	(11,193)	466,272
107	Washington County	1,321,706	1,066,559	19,783	165,974	-	185,757	60,193	12,906	-	290,665	363,764	241,619	(110,253)	131,366
108	Wayne County	820,637	748,166	13,878	116,427	34,197	164,502	42,224	9,053	-	17,475	68,752	169,490	5,375	174,865
109	Webster County	1,918,146	1,738,900	32,254	270,601	122,060	424,915	98,138	21,042	-	7,091	126,271	393,932	32,333	426,265
110	Worth County	119,892	112,134	2,080	17,450	9,505	29,035	6,328	1,357	-	102	7,787	25,403	2,663	28,066
111	Wright County	848,259	869,493	16,128	135,307	146,223	297,658	49,071	10,522	-	42,771	102,364	196,976	25,500	222,476
	Totals	\$ 225,018,714	\$ 197,994,591	\$ 3,672,544	\$ 30,811,165	\$ 7,748,235	\$ 42,231,944	\$ 11,174,145	\$ 2,395,907	\$ -	\$ 7,748,235	\$ 21,318,287	\$ 44,853,915	\$ -	\$ 44,853,915



## COUNTY EMPLOYEES' RETIREMENT FUND

### NOTES TO THE SCHEDULES OF EMPLOYER ALLOCATIONS AND PENSION AMOUNTS BY EMPLOYER

#### 1. PLAN DESCRIPTION

The County Employees' Retirement Fund (CERF) was established by an act of the Missouri General Assembly effective August 28, 1994. Laws governing the retirement fund are found in Sections 50.1000-50.1300 of the Missouri Revised Statutes (RSMo). The Board of Directors consists of eleven members, nine of whom are county employee or retiree participants. Two members, who have no beneficiary interest in CERF, are appointed by the Governor of Missouri. The Board of Directors has the authority to adopt rules and regulations for administering the system.

CERF is a mandatory cost-sharing multiple employer retirement system for each county in the state of Missouri, except any city not within a county (which excludes the City of St. Louis) and counties of the first classification with a charter form of government. CERF covers county elective or appointive officers or employees whose position requires the actual performance of duties not less than 1,000 hours per year; including employees of circuit courts located in a first class, non-charter county which is not participating in the Local Government Employees Retirement System (LAGERS); and does not cover circuit clerks, deputy circuit clerks, county prosecuting attorneys, and county sheriffs. Until January 1, 2000, employees hired before January 1, 2000, could opt out of the system.

CERF is a defined benefit plan providing retirement and death benefits to its members. All benefits vest after 8 years of creditable service. Employees who retire on or after age 62 are entitled to an allowance for life based on the form of payment selected. The normal form of payment is a single life annuity. Optional joint and survivor annuity and 10-year certain and life annuity payments are also offered to members in order to provide benefits to a named survivor annuitant after their death. Employees who have a minimum of 8 years of creditable service and who terminated employment after December 31, 1999, may retire with an early retirement benefit and receive a reduced allowance after attaining age 55. Annual cost-of-living adjustments, not to exceed 1%, are provided for eligible retirees and survivor annuitants, up to a lifetime maximum of 50% of the initial benefit which the member received upon retirement. Benefit provisions are fixed by state statute and may be amended only by action of the Missouri Legislature. Administrative expenses for the operation of CERF are paid out of the funds of the system.

Prior to January 1, 2003, participating county employees, except for those who participated in LAGERS, were required to make contributions equal to 2% of gross compensation. Effective January 1, 2003, participating county employees hired on or after February 25, 2002, are required to make contributions of 4% if they are in a LAGERS county and contributions of 6% if they are in a non-LAGERS county. If an employee leaves covered employment before attaining 8 years of creditable service, accumulated employee contributions (other than those made by the county) are refunded to the employee. The contribution rate is set by state statute and may be amended only by action of the Missouri Legislature. Counties may elect to make all or a portion of the required 4% contribution on behalf of employees.

In addition to the above contributions required of employees, the following fees and penalties prescribed under Missouri law are required to be collected and remitted to CERF by counties covered by the plan:

- Late fees on filing of personal property tax declarations,
- Twenty dollars on each merchants and manufacturers license issued,
- Six dollars on each document recorded or filed with county recorders of deeds, with an additional one dollar on each document recorded,
- Three sevenths of the fee on delinquent property taxes, and
- Interest earned on investment of the above collections prior to remittance to CERF.

Further information related to required contributions, pension benefits, other plan terms, and investments and related return and financial information related to CERF is available as described in Note 4.

## 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

County employers participating in CERF are required to report pension information in their financial statements for fiscal periods beginning on or after June 15, 2014, in accordance with Governmental Accounting Standards Board Statement No. 68, *Accounting and Financial Reporting for Pensions*. The schedules of employer allocations and schedules of pension amounts by employer provide employers with the required information for financial reporting under that standard.

The underlying financial information used to prepare the pension allocation schedules is based on CERF's financial statements, accounting and payroll reporting systems. CERF's financial statements were prepared using the accrual basis of accounting and in accordance with U.S. generally accepted accounting principles.

Member and employer contributions are recognized when due, pursuant to formal commitments and statutory requirements. Benefits and refunds of employee contributions are recognized when due and payable in accordance with the statutes governing CERF. Expenses are recognized when the liability is incurred, regardless of when payment is made. Investments CERF are reported at fair value on a trade date basis.

Employer contributions due for the year ended December 31, 2017, were used as the basis for determining each employer's proportionate share of the collective pension amounts reported on the schedules.

Employer contributions do not include member (employee) contributions paid by counties. Accordingly, the total pension expense reported in the schedule of pension amounts by employer excludes that attributable to employer-paid member contributions. Appropriate treatment of such amounts in employers' financial statements is the responsibility of the employers.

Employees of CERF do not participate in the plan.

The net pension liability is based on the Plan's fiduciary net position as reported in its financial statements, and the total pension liability is estimated by CERF's actuary as of each fiscal year-end. It is allocated as previously described.

Deferred inflows and outflows, except for the change in proportion, are allocated based on each employer's proportionate share of contributions for the fiscal year. The difference between expected and actual investment earnings on pension plan investments is amortized as a component of pension expense over 5 years on a straight-line basis, while the differences between expected and actual experience and changes in assumptions are amortized as a component of pension expense over the expected average remaining service lifetime (EARSL) of all participants (4.645 years for the year ended December 31, 2017). Deferred inflows and outflows related to the change in proportion used for allocation purposes from one fiscal year to the next

are estimated by reallocating beginning balances using the ending allocation percentage and amortizing the difference over the EARSL as a component of pension expense. The remaining unamortized deferred inflows and outflows are reported in the schedule of pension amounts by employer.

Pension expense is based on the service cost earned by participants during the fiscal year, interest on the total pension liability, certain changes in plan fiduciary net position, and the current year amortization of deferred inflows and outflows. It is allocated based on each employer's proportionate share of collective plan amounts and its specific amortization of change in proportion deferred item.

The preparation of the schedules in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

### 3. ACTUARIAL ASSUMPTIONS AND METHODS

Actuarial valuations of the Plan involve estimates of the reported amount and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

The components of the collective net pension liability of CERF's employers at December 31, 2017, are as follows:

Total pension liability	\$ 707,524,798
CERF fiduciary net position	<u>509,530,207</u>
Employers' net pension liability	<u>\$ 197,994,591</u>
Plan net position as a percentage of the total pension liability	72.02%
Covered payroll	\$ 401,037,836
Employers' net pension liability as a percentage of covered payroll	49.37%

The total pension liability as of December 31, 2017, was based on the most recent actuarial valuation by CERF's independent actuary as of December 31, 2016, projected forward to December 31, 2017, and financial information of the Plan as of December 31, 2017. The following actuarial assumptions were used:

Actuarial cost method	Entry age normal
Compensation increases	2.5%, plus merit
Discount rate	7.5%
Inflation	2.5%
Investment rate of return	7.5%
Mortality rates	RP-2000 Combined Mortality projected to 2022 using Scale BB

The current funding policy, if actuarial assumptions are met, results in the projected plan fiduciary net position being sufficient to pay benefits for all future years. Therefore, the current 7.5% discount rate is considered adequate, and the use of the municipal bond rate calculation is not necessary.

Actuarial valuations of CERF involve estimates of the reported amount and assumptions about the probability of the occurrence of events far into the future. Examples include assumptions about future employment, mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The last experience study was conducted for the period January 1, 2008, through December 31, 2013. No independent actuarial review of the reasonableness and accuracy of actuarial assumptions, actuarial cost methods, and valuations has been conducted.

#### **4. ADDITIONAL FINANCIAL AND ACTUARIAL INFORMATION**

Additional financial and actuarial information supporting the preparation of the schedules of employer allocations and schedules of pension amounts by employer is included in CERF's Comprehensive Annual Financial Report for the year ended December 31, 2017. The Comprehensive Annual Financial Report can be obtained by submitting a request to the County Employees' Retirement Fund, 2121 Schotthill Woods Drive, Jefferson City, MO 65101.