

**Utah Retirement Systems**  
**Required Supplementary Information** (Continued)

## Schedules of Employers' Net Pension Liability

System	Date	(dollars in thousands)		(3) Employers Net Pension Liability/ (Asset)	(4) Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	(5) Projected Covered Payroll	(6) Net Pension Liability/ (Asset) as a Percentage of Covered Payroll
		(1) Total Pension Liability	(2) Plan Fiduciary Net Position				
<b>Noncontributory Retirement System</b>	12/31/13	\$ 23,344,325	19,915,815	3,428,510	85.3 %	\$ 3,705,771	92.5 %
	12/31/14	24,043,264	21,096,512	2,946,752	87.7	3,570,912	82.5
	12/31/15	24,899,572	21,192,437	3,707,135	85.1	3,458,286	107.2
	12/31/16	26,501,781	22,618,743	3,883,038	85.3	3,406,567	114.0
	12/31/17	28,088,619	25,205,127	2,883,492	89.7	3,375,321	85.4
	12/31/18	29,122,948	24,666,059	4,456,889	84.7	3,330,548	133.8
	12/31/19	30,351,815	27,635,923	2,715,892	91.1	3,328,314	81.6
	12/31/20	31,763,859	30,478,072	1,285,787	96.0	3,306,382	38.9
	12/31/21	33,566,790	35,068,535	(1,501,745)	104.5	3,361,940	(44.7)
<b>Contributory Retirement System</b>	12/31/13	\$ 1,312,921	1,281,945	30,976	97.6 %	\$ 98,023	31.6 %
	12/31/14	1,309,800	1,269,991	39,809	97.0	90,623	43.9
	12/31/15	1,316,041	1,183,091	132,950	89.9	82,426	161.3
	12/31/16	1,292,512	1,204,904	87,608	93.2	53,615	163.4
	12/31/17	1,298,183	1,283,466	14,717	98.9	45,177	32.6
	12/31/18	1,284,009	1,172,429	111,580	91.3	39,279	284.1
	12/31/19	1,270,111	1,262,292	7,819	99.4	34,317	22.8
	12/31/20	1,272,690	1,335,639	(62,949)	104.9	30,748	(204.7)
	12/31/21	1,256,624	1,447,237	(190,613)	115.2	26,782	(711.7)
<b>Public Safety Retirement System</b>	12/31/13	\$ 3,269,140	2,712,184	556,956	83.0 %	\$ 365,998	152.2 %
	12/31/14	3,360,027	2,899,386	460,641	86.3	360,750	127.7
	12/31/15	3,511,275	2,938,839	572,436	83.7	355,171	161.2
	12/31/16	3,794,880	3,176,545	618,335	83.7	352,407	175.5
	12/31/17	4,085,203	3,576,517	508,686	87.5	350,782	145.0
	12/31/18	4,258,247	3,528,069	730,178	82.9	348,475	209.5
	12/31/19	4,460,415	3,984,186	476,229	89.3	339,705	140.2
	12/31/20	4,694,184	4,422,517	271,667	94.2	338,919	80.2
	12/31/21	4,925,534	5,105,393	(179,859)	103.7	336,809	(53.4)
<b>Firefighters Retirement System</b>	12/31/13	\$ 999,024	968,661	30,363	97.0 %	\$ 110,741	27.4 %
	12/31/14	1,014,328	1,031,039	(16,711)	101.6	111,305	(15.0)
	12/31/15	1,058,264	1,043,059	15,205	98.6	111,133	13.7
	12/31/16	1,129,729	1,115,726	14,003	98.8	112,322	12.5
	12/31/17	1,205,727	1,234,407	(28,680)	102.4	112,953	(25.4)
	12/31/18	1,261,289	1,207,889	53,400	95.8	113,587	47.0
	12/31/19	1,316,620	1,391,553	(74,933)	105.7	113,330	(66.1)
	12/31/20	1,388,497	1,551,194	(162,697)	111.7	114,458	(142.1)
	12/31/21	1,470,649	1,799,463	(328,814)	122.4	114,635	(286.8)
<b>Judges Retirement System</b>	12/31/13	\$ 182,638	155,676	26,962	85.2 %	\$ 15,195	177.4 %
	12/31/14	192,285	163,834	28,451	85.2	16,072	177.0
	12/31/15	198,986	163,747	35,239	82.3	15,832	222.6
	12/31/16	210,623	175,618	35,005	83.4	16,755	208.9
	12/31/17	231,069	198,483	32,586	85.9	18,661	174.6
	12/31/18	244,209	195,570	48,639	80.1	18,802	258.7
	12/31/19	259,181	220,293	38,888	85.0	19,596	198.4
	12/31/20	271,116	244,133	26,983	90.0	20,071	134.4
	12/31/21	282,957	282,030	927	99.7	20,801	4.5

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

**Utah Retirement Systems**  
**Required Supplementary Information** (Continued)

**Schedules of Employers' Net Pension Liability** (Concluded)

(dollars in thousands)

System	Date		(1) Total Pension Liability	(2) Plan Fiduciary Net Position	(3) Employers Net Pension Liability/ (Asset)	(4) Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	(5) Projected Covered Payroll	(6) Net Pension Liability/ (Asset) as a Percentage of Covered Payroll
<b>Utah Governors and Legislators Retirement Plan</b>	12/31/13	\$	11,879	10,166	1,713	85.6 %	\$ 390	439.2 %
	12/31/14		12,267	10,366	1,901	84.5	928	204.8
	12/31/15		12,247	10,039	2,208	82.0	943	234.1
	12/31/16		12,654	10,352	2,302	81.8	799	288.1
	12/31/17		13,074	11,220	1,854	85.8	722	256.6
	12/31/18		13,177	10,537	2,640	80.0	639	413.1
	12/31/19		13,053	11,344	1,709	86.9	639	267.4
	12/31/20		13,330	12,055	1,275	90.4	757	168.4
	12/31/21		13,202	13,425	(223)	101.7	719	(31.0)
<b>Tier 2 Public Employees Contributory Retirement System</b>	12/31/13	\$	48,292	47,690	602	98.8 %	\$ 353,227	0.2 %
	12/31/14		86,261	89,291	(3,030)	103.5	492,882	(0.6)
	12/31/15		140,321	140,539	(218)	100.2	637,560	0.0
	12/31/16		228,450	217,293	111,157	95.1	822,196	1.4
	12/31/17		338,035	329,218	8,817	97.4	996,965	0.9
	12/31/18		467,461	424,633	42,828	90.8	1,171,543	3.7
	12/31/19		634,074	611,583	22,491	96.5	1,380,488	1.6
	12/31/20		846,868	832,485	14,383	98.3	1,609,102	0.9
	12/31/21		1,111,694	1,154,018	(42,324)	103.8	1,810,502	(2.3)
<b>Tier 2 Public Safety and Firefighter Contributory Retirement System</b>	12/31/13	\$	3,345	3,935	(590)	117.6 %	\$ 20,215	(2.9) %
	12/31/14		7,226	8,705	(1,479)	120.5	35,019	(4.2)
	12/31/15		13,628	15,089	(1,461)	110.7	53,276	(2.7)
	12/31/16		24,266	25,135	(869)	103.6	74,834	(1.2)
	12/31/17		39,023	40,180	(1,157)	103.0	98,113	(1.2)
	12/31/18		56,841	54,336	2,505	95.6	123,439	2.0
	12/31/19		90,787	81,381	9,406	89.6	156,778	6.0
	12/31/20		129,253	120,284	8,969	93.1	188,667	4.8
	12/31/21		177,580	182,634	(5,054)	102.8	223,892	(2.3)
<b>All Retirement Systems</b>	12/31/13	\$	29,171,564	25,096,072	4,075,492	86.0 %	\$ 4,669,560	87.3 %
	12/31/14		30,025,458	26,569,124	3,456,334	88.5	4,679,491	73.9
	12/31/15		31,150,334	26,686,840	4,463,494	85.7	4,714,627	94.7
	12/31/16		33,194,895	28,544,316	4,650,579	86.0	4,839,495	96.1
	12/31/17		35,298,933	31,878,618	3,420,315	90.3	4,998,694	68.4
	12/31/18		36,708,181	31,259,522	5,448,659	85.2	5,146,312	105.9
	12/31/19		38,396,056	35,198,555	3,197,501	91.7	5,373,167	59.5
	12/31/20		40,379,797	38,996,379	1,383,418	96.6	5,609,104	24.7
	12/31/21		42,805,030	45,052,735	(2,247,705)	105.3	5,896,080	(38.1)

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

**Utah Retirement Systems**  
**Required Supplementary Information** (Continued)

## Schedules of Employer Contributions

(dollars in thousands)

System	Year Ended December 31	Actuarial Determined Contribution*	Contributions in Relation to the Actuarial Determined Contribution	Contribution Deficiency (Excess)	Projected Covered Payroll	Contributions as a Percentage of Covered Payroll**
<b>Noncontributory Retirement System</b>	2012	\$ 644,907	644,907	—	3,794,929	16.99 %
	2013	710,933	710,933	—	3,705,771	19.18
	2014	772,420	772,420	—	3,570,912	21.63
	2015	813,449	813,449	—	3,458,286	23.52
	2016	831,631	831,631	—	3,406,567	24.41
	2017	854,255	854,255	—	3,375,321	25.31
	2018	858,444	858,444	—	3,330,548	25.77
	2019	888,078	888,078	—	3,328,314	26.68
	2020	912,525	912,525	—	3,306,382	27.60
	2021	942,910	942,910	—	3,361,940	28.05
<b>Contributory Retirement System</b>	2012	\$ 11,705	11,705	—	103,074	11.36 %
	2013	12,874	12,874	—	98,023	13.13
	2014	12,954	12,954	—	90,623	14.29
	2015	11,719	11,719	—	82,426	14.22
	2016	8,188	8,188	—	53,615	15.27
	2017	7,946	7,946	—	45,177	17.59
	2018	6,027	6,027	—	39,279	15.34
	2019	5,433	5,433	—	34,317	15.83
	2020	4,759	4,759	—	30,748	15.48
	2021	4,204	4,204	—	26,782	15.70
<b>Public Safety Retirement System</b>	2012	\$ 117,975	117,975	—	366,471	32.19 %
	2013	128,744	128,744	—	365,998	35.18
	2014	135,588	135,588	—	360,750	37.59
	2015	141,024	141,024	—	355,171	39.71
	2016	147,099	147,099	—	352,407	41.74
	2017	145,814	145,814	—	350,783	41.57
	2018	147,101	147,101	—	348,475	42.21
	2019	150,467	150,467	—	339,705	44.29
	2020	150,512	150,512	—	338,919	44.41
	2021	152,524	152,524	—	336,809	45.29
<b>Firefighters Retirement System</b>	2012	\$ 17,321	17,321	—	110,608	15.66 %
	2013	14,779	14,779	—	110,741	13.35
	2014	19,668	19,668	—	111,305	17.67
	2015	23,908	23,908	—	111,133	21.51
	2016	17,523	17,523	—	112,322	15.60
	2017	7,938	7,938	—	112,953	7.03
	2018	15,768	15,768	—	113,587	13.88
	2019	49,302	49,302	—	113,330	43.50
	2020	27,769	27,769	—	114,458	24.26
	2021	28,635	28,635	—	114,635	24.98
<b>Judges Retirement System</b>	2012	\$ 5,898	5,898	—	14,885	39.62 %
	2013	6,488	6,488	—	15,195	42.70
	2014	7,113	7,113	—	16,072	44.26
	2015	8,208	8,208	—	15,832	51.84
	2016	8,852	8,852	—	16,755	52.83
	2017	9,040	9,040	—	18,661	48.44
	2018	9,609	9,609	—	18,802	51.11
	2019	10,036	10,036	—	19,596	51.21
	2020	10,056	10,056	—	20,071	50.10
	2021	10,303	10,303	—	20,801	49.53

\*Contributions for the Tier 1 Systems include contributions received on the Tier 2 payroll to help finance the unfunded actuarial accrued liability of the Tier 1 Systems.

\*\*Contributions as a percentage of covered payroll may be different than the board certified rate due to rounding and other administrative issues.

## Utah Retirement Systems Required Supplementary Information *(Concluded)*

### Schedules of Employer Contributions *(Concluded)*

(dollars in thousands)

System	Year Ended December 31	Actuarial Determined Contribution*	Contributions in Relation to the Actuarial Determined Contribution	Contribution Deficiency (Excess)	Projected Covered Payroll	Contributions as a Percentage of Covered Payroll**
<b>Utah Governors and Legislators Retirement Plan</b>	2012	\$ 214	214	—	910	23.52 %
	2013	252	252	—	390	64.62
	2014	411	411	—	928	44.29
	2015	421	421	—	943	44.64
	2016	421	421	—	799	52.69
	2017	404	404	—	722	55.96
	2018	392	392	—	639	61.35
	2019	384	384	—	639	60.09
	2020	369	369	—	757	48.75
	2021	361	361	—	719	50.21
<b>Tier 2 Public Employees Contributory Retirement System</b>	2012	\$ 14,208	14,208	—	203,779	6.97 %
	2013	25,743	25,743	—	353,227	7.29
	2014	37,299	37,299	—	492,882	7.57
	2015	49,645	49,645	—	637,560	7.79
	2016	63,062	63,062	—	822,196	7.67
	2017	79,175	79,175	—	996,965	7.97
	2018	97,680	97,680	—	1,171,543	8.34
	2019	119,839	119,839	—	1,380,488	8.68
	2020	138,466	138,466	—	1,609,102	8.61
	2021	168,232	168,232	—	1,810,502	9.29
<b>Tier 2 Public Safety and Firefighter Contributory Retirement System</b>	2012	\$ 1,031	1,031	—	10,237	10.07 %
	2013	2,451	2,451	—	20,215	12.12
	2014	4,365	4,365	—	35,019	12.46
	2015	6,221	6,221	—	53,276	11.68
	2016	8,488	8,488	—	74,834	11.34
	2017	11,126	11,126	—	98,113	11.34
	2018	14,295	14,295	—	123,439	11.58
	2019	18,197	18,197	—	156,778	11.61
	2020	25,020	25,020	—	188,667	13.26
	2021	33,406	33,406	—	223,892	14.92
<b>All Retirement Systems</b>	2012	\$ 813,259	813,259	—	4,604,893	17.66 %
	2013	902,264	902,264	—	4,669,560	19.32
	2014	989,818	989,818	—	4,678,491	21.16
	2015	1,054,595	1,054,595	—	4,714,628	22.37
	2016	1,085,264	1,085,264	—	4,839,495	22.43
	2017	1,115,698	1,115,698	—	4,998,694	22.32
	2018	1,149,316	1,149,316	—	5,146,312	22.33
	2019	1,241,736	1,241,736	—	5,373,167	23.11
	2020	1,269,476	1,269,476	—	5,609,104	22.63
	2021	1,340,575	1,340,575	—	5,896,080	22.74

\*Contributions for the Tier 1 Systems include contributions received on the Tier 2 payroll to help finance the unfunded actuarial accrued liability of the Tier 1 Systems.

\*\*Contributions as a percentage of covered payroll may be different than the board certified rate due to rounding and other administrative issues.

## Schedule of Investment Returns

Year Ended December 31

	2021	2020	2019	2018	2017	2016	2015	2014
Annual money weighted rate of return, net of investment expense	17.46 %	12.64 %	13.80 %	(0.38) %	13.38 %	8.73 %	2.02 %	7.94 %

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