Alternative Retirement Benefit Designs Estimated Replacement Rates and Initial Annual Benefit Table 1

Sample Employee	Ages Worked	Social Security	Current TSERS		DB Alternative 1			DB Alternative 2		DB Alternative 3	
					Multiplier of 1.7% if you leave with less than 30 years, index benefits at 3% between separation and retirement			Multiplier of 1.62% for 1st 10 years, 1.87% for 2nd 10 years, 2.12% after that		Multiplier of 1.81% for 1st 30 years, 2.0% for service after 30 years	
Early Car	<u>eer vs. Late Career</u>										
1	25-40 (15 years,	Without	8.7%	\$ 4,331	16.9%	\$	8,471	8.1%	\$ 4,053	8.6%	\$ 4,307
	payable at 65)	With	45.4%	\$ 22,681	53.6%	\$	26,821	44.8%	\$22,403	45.3%	\$22,657
2	50.65(15 years)	Without	25.8%	\$ 12,882	24.1%	\$	12,033	24.1%	\$12,057	25.6%	\$12,812
2	50-05 (15 years)	With	62.5%	\$ 31,232	60.8%	\$	30,383	60.8%	\$30,407	62.3%	\$31,162
Increase in	n Benefit During C	areer									
3	30-33 (3 years,	Without	2.6%	\$ 1,304 \$ 10.654	2.6%	\$ ¢	1,304	2.6%	\$ 1,304 \$10,654	2.6%	\$ 1,304 \$10,654
4	$\frac{1}{20} \frac{40}{10} \frac{10}{10} \frac{10}$	With out	5 90/	\$ 19,034	39.370 11.20/	ф Ф	19,034	59.570	\$19,034	59.570	\$19,034
	30-40 (10 years,	without	5.8%	\$ 2,887	11.3%	\$	5,647	5.1%	\$ 2,570	5.7%	\$ 2,872
5	payable at 65)	With	42.5%	\$ 21,237	48.0%	\$	23,997	41.8%	\$20,920	42.4%	\$21,222
	30-50 (20 years,	Without	18.8%	\$ 9,407	27.4%	\$	13,689	18.0%	\$ 9,019	18.7%	\$ 9,355
	payable at 65)	With	55.5%	\$ 27,757	64.1%	\$	32,039	54.7%	\$27,369	55.4%	\$27,705
6	30-60 (30 years,	Without	42.4%	\$ 21,177	42.4%	\$	21,177	43.5%	\$21,759	42.1%	\$21,061
	payable at 60)	With	79.1%	\$ 39,527	79.1%	\$	39,527	80.2%	\$40,109	78.8%	\$39,411
		7									
Continue	Working After 30	<u>rears</u>	50 1 0 (60.40/	<u>^</u>		(a 0.07)		60 - 0/	
7	30-65 (35 years)	Without	60.1%	\$ 30,059	60.1%	\$	30,059	62.9%	\$31,475	60.7%	\$30,342
		With	96.8%	\$ 48,409	96.8%	\$	48,409	99.6%	\$49,825	97.4%	\$48,692
Lump Sun	n (Amount shown i	s one-time, not a	nnual ber	nefit)							
8	30-60 (30 years)	Without	132.8%	\$ 66,383	132.8%	\$	66,383	132.8%	\$66,383	132.8%	\$66,383
							,		, ,		
Costs											
	Employee										
	Contribution		6% of pay		6% of pay			6% of pay		6% of pay	
	Employer Normal		1 2							* *	
	Cost		6.3% of pay		6.3% of pay			6.3% of pay		6.3% of pay	

Assumptions

Final salary: \$50,000 at age 65. Replacement rate is shown as a percent of this salary.

DC balance converted to lifetime annuity at retirement. Benefit is not inflation indexed to be consistent with current TSERS benefit.

DC plan investment return: 7.0% pre-retirement, 5.0% interest rate for conversion to annuity at retirement.

Salary increase rate: 6% per year before age 35, 5% between age 35 and age 50, 4% per year after age 50.

Social Security is assumed to replace 36.7% of final salary for everyone. This estimates Social Security benefit at age 65. Social Security

is not available at age 60, so for the employee who works from age 30 to age 60, we have shown the Social Security estimate for age 65.

Alternative Retirement Benefit Designs Estimated Replacement Rates and Initial Annual Benefit Table 2

Sample Employee	Ages Worked	Social Security	Current TSERS		DB/D	C Choice	DB/DC Combination		
					ORP v emj contr	vith 6.3% ployer ribution	DB multiplier of 1% paid by employer, 6% employee contribution goes to DC		
Early Car	<u>eer vs. Late Career</u>	•							
1	25-40 (15 years,	Without	8.7%	\$ 4,331	29.2%	<u>\$ 14,584</u>	19.0%	<mark>\$ 9,494</mark>	
	payable at 65)	With	45.4%	\$ 22,681	65.9%	\$ 32,934	55.7%	\$ 27,844	
2	50-65 (15 years)	Without	25.8%	\$ 12,882	17.7%	\$ 8,867	22.8%	\$ 11,403	
		With	62.5%	\$ 31,232	54.4%	\$ 27,217	59.5%	\$ 29,753	
Increase in	1 Benefit During C	areer							
3	30-33 (3 years	Without	2.6%	\$ 1.304	2.9%	\$ 1444	2.9%	\$ 1444	
	pavable at 65)	With	39.3%	\$ 19.654	39.6%	\$ 19.794	39.6%	\$ 19.794	
4	30-40 (10 years.	Without	5.8%	\$ 2.887	18.9%	\$ 9.463	12.4%	\$ 6.202	
	payable at 65)	With	42.5%	\$ 21.237	55.6%	\$ 27.813	49.1%	\$ 24.552	
	30-50 (20 years,	Without	18.8%	\$ 9,407	34.8%	\$ 17,416	27.3%	\$ 13,664	
5	payable at 65)	With	55.5%	\$ 27,757	71.5%	\$ 35,766	64.0%	\$ 32,014	
c.	30-60 (30 years,	Without	42.4%	\$ 21,177	30.2%	\$ 15,084	38.0%	\$ 18,994	
6	payable at 60)	With	79.1%	\$ 39,527	66.9%	\$ 33,434	74.7%	\$ 37,344	
Continue Y	Working After 30	Years							
7	30.65(35 years)	Without	60.1%	\$ 30,059	52.6%	\$ 26,283	58.7%	\$ 29,337	
/	50-05 (55 years)	With	96.8%	\$ 48,409	89.3%	\$ 44,633	95.4%	\$ 47,687	
I G				6 ()					
Lump Sun	n (Amount shown i	s one-time, not a	nnual bei	<u>nefît)</u>				*	
8	30-60 (30 years)	Without	132.8%	\$ 66,383	416.3%	\$ 208,158	203.1%	\$ 101,540	
Costs									
	Employee								
	Contribution		6% of pay		6% of pay		6% of pay		
	Employer Normal Cost		6.3% of pav		6.3%	6 of pay	6.3% of pav		