



# Teachers' Pension Scheme (England and Wales)

## Summary of the 2020 assumptions used in the actuarial valuation as at 31 March 2020

This report is supplemental to the Advice on assumptions report dated 26 October and should be read in conjunction with that report. This report contains further details of the 'scheme-set' assumptions to be adopted for the actuarial valuation of the Teachers' Pension Scheme (England and Wales) as at 31 March 2020, including sample rates and values.

The assumptions adopted at the previous valuation as at 31 March 2016 are set out in our Advice on assumptions report for that valuation, located at the following link:

[2016-assumptions-report---tps\\_ew---final.ashx \(teacherspensions.co.uk\)](https://www.teacherspensions.co.uk/2016-assumptions-report---tps_ew---final.ashx).

### Mortality after retirement

Baseline mortality	Standard table	Adjustment
<b>Males</b>		
Retirements in normal health	S3NMA	93%
Current ill-health pensioners	S3IMA	86%
Future ill-health pensioners	S3IMA	86%
Dependants	S3DMA	87%
<b>Females</b>		
Retirements in normal health	S3NFA	93%
Current ill-health pensioners	S3IFA	102%
Future ill-health pensioners	S3IFA	102%
Dependants	S3DFA	90%



## Commutation of pension for cash at retirement

	NPA 60 service	NPA 65 service	2015 scheme service
Males and females	6%	17.5%	17.5%

## Retirement ages

### Age retirement rates with service only in NPA60 section or NPA65 section

Age	NPA 60		NPA 65	
	Males	Females	Males	Females
55	0.09	0.08	-	-
56	0.08	0.07	-	-
57	0.11	0.09	-	-
58	0.14	0.12	-	-
59	0.16	0.14	-	-
60	0.37	0.40	0.09	0.08
61	0.27	0.32	0.08	0.07
62	0.22	0.27	0.11	0.09
63	0.22	0.25	0.14	0.11
64	0.24	0.25	0.15	0.13
65	0.42	0.35	1.00	1.00
66	0.35	0.31	1.00	1.00
67	0.28	0.24	1.00	1.00
68	0.28	0.21	1.00	1.00
69	0.27	0.27	1.00	1.00
70	1.00	1.00	1.00	1.00

### Age retirement rates for new entrants to the 2015 scheme

Age	SPA 65		SPA 66		SPA 67		SPA 68	
	Males	Females	Males	Females	Males	Females	Males	Females
55	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-
59	-	-	-	-	-	-	-	-
60	0.09	0.08	0.09	0.08	0.09	0.08	0.09	0.08
61	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07
62	0.11	0.09	0.11	0.09	0.11	0.09	0.11	0.09
63	0.14	0.11	0.14	0.11	0.14	0.11	0.14	0.11
64	0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13
65	1.00	1.00	0.50	0.50	0.33	0.33	0.25	0.25
66	1.00	1.00	1.00	1.00	0.50	0.50	0.33	0.33
67	1.00	1.00	1.00	1.00	1.00	1.00	0.50	0.50
68	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## Age retirement rates for members with service in NPA60 section and 2015 scheme

Age	SPA 67		SPA 68	
	Males	Females	Males	Females
55	0.07	0.06	0.02	0.02
56	0.06	0.05	0.02	0.02
57	0.08	0.07	0.03	0.02
58	0.11	0.09	0.04	0.03
59	0.12	0.10	0.04	0.03
60	0.31	0.34	0.16	0.16
61	0.26	0.31	0.14	0.15
62	0.21	0.24	0.14	0.14
63	0.22	0.24	0.16	0.16
64	0.22	0.24	0.17	0.17
65	0.46	0.40	0.32	0.30
66	0.46	0.41	0.38	0.36
67	0.40	0.37	0.47	0.46
68	0.51	0.47	0.84	0.83
69	0.53	0.38	0.85	0.80
70	1.00	1.00	1.00	1.00

## Age retirement rates for members with service in NPA65 and 2015 scheme

Age	SPA 65		SPA 66		SPA 67		SPA 68	
	Males	Females	Males	Females	Males	Females	Males	Females
55	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-
59	-	-	-	-	-	-	-	-
60	0.09	0.08	0.09	0.08	0.09	0.08	0.09	0.08
61	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07
62	0.11	0.09	0.11	0.09	0.11	0.09	0.11	0.09
63	0.14	0.11	0.14	0.11	0.14	0.11	0.14	0.11
64	0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13
65	1.00	1.00	1.00	1.00	0.76	0.76	0.41	0.41
66	1.00	1.00	1.00	1.00	0.78	0.78	0.48	0.48
67	1.00	1.00	1.00	1.00	1.00	1.00	0.61	0.61
68	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## Rates of leaving service (net of re-entry within 5 years) for all members

Age	Males	Females
20	0.094	0.064
25	0.076	0.057
30	0.058	0.051
35	0.034	0.030
40	0.034	0.027
45	0.034	0.027
50	0.036	0.031
55	0.036	0.035
60	0.036	0.037
65*	0.036	0.038

\*Rates are zero if above the NPA/SPA of the relevant section.

## Promotional pay increases for all members

Age	Males	Females
20	89	89
25	100	100
30	125	124
35	151	143
40	168	152
45	179	158
50	186	164
55	190	168
60	192	170
65	194	172

## Rates of ill-health retirement for all members

Age	Males	Females
20	-	-
25	0.0000	0.0000
30	0.0000	0.0001
35	0.0001	0.0002
40	0.0002	0.0003
45	0.0006	0.0006
50	0.0018	0.0015
55	0.0032	0.0029
60	0.0047	0.0043
65*	0.0057	0.0058

\* rates are zero if above the NPA of the relevant section.

In all scheme sections, 50% of men and 50% of women are assumed to qualify for upper tier ill-health retirement awards.

## Mortality before retirement for all members

Age	Males	Females
20	0.0001	0.0000
25	0.0001	0.0001
30	0.0002	0.0001
35	0.0003	0.0002
40	0.0004	0.0003
45	0.0006	0.0004
50	0.0008	0.0006
55	0.0014	0.0009
60	0.0023	0.0012
65	0.0036	0.0017

## Family statistics

### Proportion married or married/partnered at retirement for future pensioners

	Accrual before 1/1/2007	Accrual on or after 1/1/2007
	Proportion married	Proportion married or partnered
<b>Males</b>	77%	77%
<b>Females</b>	58%	58%

### Proportion married or married/partnered at retirement for current pensioners (at the valuation date)

Age	Accrual before 1/1/2007		Accrual on or after 1/1/2007	
	Males	Females	Males	Females
50	74%	58%	78%	60%
60	74%	58%	78%	60%
70	74%	46%	76%	47%
80	61%	23%	62%	23%
90	35%	7%	35%	7%

Men are assumed to be three years older than their partners and women are assumed to be two years younger than their partners.

No allowance is made for pensions to cease on remarriage.

**Garth Foster, Actuary, Government Actuary's Department**

**26 October 2023**