

Public Service (Civil Servants and Others) Pension Scheme (Northern Ireland) (Alpha Scheme)

Factors for Added Pension

Date: 9 April 2015

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1 Introduction

- 1.1 This note is addressed to the Department of Finance and Personnel (DFP) as scheme manager of the **alpha** pension scheme (Public Service (Civil Servants and Others) Pension Scheme). The **alpha** scheme was established by The Public Service (Civil Servants and Others) Pensions Regulations (Northern Ireland) 2014 ("the Regulations") and will come into force on 1 April 2015.
- 1.2 The purpose of the note is to provide DFP with specific factors, and accompanying guidance to demonstrate how these factors should be applied to calculate the amount of added pension (AP) to be awarded when a member, their employer or third party opts to make a lump sum payment or a member makes regular periodic payments. These tables do not apply to members in the classic, classic plus, premium or nuvos sections of the Principal Civil Service Pension Scheme (Northern Ireland).
- 1.3 Members, their employer or a third party may make payments for extra pension in accordance with Schedule 1, part two of the Regulations.
- 1.4 Added pension factors are the responsibility of the Department under Schedule 1, part 1, paragraph 6 of the Regulations.
- 1.5 The factors provided in this note have been prepared in light of our advice to DFP dated 3 October 2014 and subsequent correspondence following that advice.
- 1.6 Schedule 1, part 1, paragraph 3 of the regulations provides for a restriction on the maximum amount of extra pension (which includes accrued added pension) that can be purchased by a member. This test must be made before allowing the member to exercise the option to buy added pension. If a member has elected to purchase an effective pension age or enhanced effective pension age option then this can impact on their eligibility to purchase added pension.
- 1.7 The factors and guidance contained in this note should be implemented with effect from 1 April 2015, when the alpha scheme is introduced.
- 1.8 We do not envisage any special cases not covered by this note. However, if any do occur they should be referred to GAD.
- 1.9 Please contact John Bayliss (020 7221 3454) for further information on this draft note.



2 Instructions

2.1 Added pension can be purchased either by a lump sum or by regular annual contributions.

Lump Sum election

- 2.2 The factors are shown per £1 pa of added pension purchased.
- 2.3 The factors should be selected with reference to the member's:
 - > age in complete years,
 - > whether the pension is for the member only, or for all beneficiaries,
 - > sex, if buying member only benefits,
 - > normal pension age (NPA), and
 - for the revaluation factor, the number of 1 Aprils falling between the calculation date and the NPA
- 2.4 The 2015 Scheme Regulations provide for a pension to be payable without reduction for early payment from the higher of age 65 and the member's State Pension Age.

DFP has confirmed that State Pension Age for the purpose of calculating added pension factors should be as set out in DFP Directions made in exercise of the powers conferred on them by sections 11(2) and 12(3) of the Public Service Pensions Act (Northern Ireland) 2014¹, and not legislation in force at the guarantee date. Factors are provided to accommodate the range of pension ages members will have in relation to service on and after 1 April 2015 in accordance with the DFP Directions.

- 2.5 If a member has a non-integer NPA then more than one factor is required and these factors are interpolated to obtain the actual factor to use corresponding to their NPA (in complete years and complete months, ignoring part months).
- 2.6 If a member purchases added pension by a lump sum payment, then the amount credited is either that set out on any statement of amount of added pension given to the member following their election to buy added pension by lump sum, or the amount determined as at the date of receipt of payment by the member if this occurs more than 1 month after the date of the statement.
- 2.7 To purchase a specific increase to a member's pension for the relevant scheme year, then the lump sum payment (LS) required is determined as follows:

$$LS = P \times F_x^{LS} \times F_y^{Re \, val}$$

Where:

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¹ The DFP Directions, is found in the following link; SPA assumptions are set out at direction 18 http://www.dfpni.gov.uk/psp-valuations-employer-cost-cap-2014.pdf



P = amount of added pension purchased

x = member's age in complete years on the date of calculation

 F_x^{LS} = lump sum factor at age x from appropriate NPA table (see Appendix A Tables 1-4: P2APLS65-68)

 $F_y^{{
m Re}\, val}$ = relevant revaluation factor for a member with y 1 Aprils between calculation date and up to and including NPA (see Appendix A Table 9 - P2APREVAL)

calculation date is either

- the date of the statement of amount of added pension to be purchased, or
- the date of receipt of payment (if this occurs more than 1 month after the date of the statement).
- 2.8 The amount of added pension, P, added to a member's pension for the relevant scheme year in respect of a lump sum payment received is determined as follows:

$$P = \frac{LS}{F_x^{LS} \times F_y^{\text{Re}\,val}}$$

Where:

LS = amount of Lump Sum payment

x = member's age in complete years on the date of calculation

 F_x^{LS} = lump sum factor at age x from appropriate NPA table (see Appendix A Tables 1-4: P2APLS65-68)

 $F_y^{{
m Re}\, val}$ = relevant revaluation factor for a member with y 1 Aprils between calculation date and up to and including NPA (see Appendix A Table 9 - P2APREVAL)

calculation date is either

- the date of the statement of amount of added pension to be purchased, or
- the date of receipt of payment (if this occurs more than 1 month after the date of the statement).

Periodical Contributions election

- 2.9 The factors are shown per £1 pa of added pension purchased.
- 2.10 A member may buy added pension by opting for a deduction from their pensionable earnings expressed as either a fixed amount or percentage of their pay. Unless the member opts to buy added pension within 3 months of joining the scheme, this will start from beginning of the next scheme year.



- 2.11 Factors should be selected with reference to the member's:
 - > age in complete years,
 - > whether the pension is for the member only, or for all beneficiaries,
 - > sex, if buying member only benefits,
 - > normal pension age (NPA), and
 - for the revaluation factor the number of 1 Aprils falling between the calculation date and the NPA
- 2.12 If a member has a non-integer NPA then more than one factor is required and these factors are interpolated to obtain the actual factor to use corresponding to their NPA (in complete years and complete months, ignoring part months).
- 2.13 The scheme year runs from 1 April to 31 March.
- 2.14 To calculate the amount of added pension to be awarded for a given scheme year, the total amount of periodic contributions over the scheme year is required.
- 2.15 The amount of pension added for a scheme year needs to be adjusted to allow for any variations during the year in the level of contributions due to pay awards, members exiting active service or periods of assumed pay, and the commencement of payments falling later than the start of the scheme year (in the case of members starting to buy added pension by periodic payments within 3 months of joining the scheme).
- 2.16 The amount of added pension, P, added to a member's pension at the end of the period of contributions during that scheme year is determined as follows:

$$P = \frac{C}{F_x^{PC} \times F_y^{\text{Re } val}}$$

Where:

C = total amount of periodic contributions over scheme year

member's age in complete years at the start of scheme year or start of the period of payment if later (ie at the calculation date)

 F_x^{PC} = regular contribution factor at age x from corresponding NPA table (see Appendix A Tables 5-8 – P2APPC65-68)

 $F_y^{\text{Re}val}$ = relevant revaluation factor for a member with y 1 Aprils (from the day after the date of commencement of contributions) up to and including NPA (see Appendix A Table 9 - P2APREVAL)



2.17 The amount of level monthly payments, MP, required to purchase a given amount of added pension if paid over a single full scheme year is determined as follows:

$$MP = \frac{P \times F_x^{PC} \times F_y^{Reval}}{12}$$

Where:

P = amount of added pension the member wishes to buy

member's age in complete years at the start of the scheme year or start of the period of payment if later

 F_x^{PC} = regular contribution factor at age x from corresponding NPA table (see Appendix A Tables 5-8 – P2APPC65-68)

 $F_y^{\text{Re}val}$ = relevant revaluation factor for a member with y 1 Aprils (from the day after the date of commencement of contributions) up to and including NPA (see Appendix A Table 9 - P2APREVAL)

2.18 The formula in 2.16 should only be used for illustrative purposes and only for cases where level payments are to be made over a complete scheme year. It is not appropriate for cases where a percentage of salary is to be paid to buy added pension.



3 Worked Examples

Example 1 – Lump sum election – Added Pension for member only purchased by a given lump sum payment

>	Sex	Female
>	Date of Birth	15/10/1960
>	Normal Pension Age (NPA)	66 years 7 months
>	Amount of lump sum payment	£1,000
>	Calculation date	01/09/2015
>	Age (last birthday) of member on calculation date	54 years
>	Number of 1 Aprils between calculation date up to	
	and including NPA	12
>	Lump Sum factor F_{x}^{LS}	9.560 (interpolated)
>	Revaluation factor $F_y^{\text{Re}\text{val}}$ (from P2APREVAL)	1.27
>	Added pension purchased immediately on payment, P	$= \frac{LS}{F_x^{LS} \times F_y^{\text{Re}val}}$
		$= \frac{£1000}{9.560 \times 1.27}$
		= £82.36 pa

The factors used above were interpolated for non-integer NPA as shown below:

Factor at NPA 66 years 7 months

$$= \left(\frac{5}{12}\right) * Factor at NPA 66 + \left(\frac{7}{12}\right) * Factor at NPA 67$$

eg for the Lump Sum factor for 54 year old female

$$=\left(\frac{5}{12}\right) * 9.934 + \left(\frac{7}{12}\right) * 9.293 = 9.560$$

Note: The factor at NPA 66 comes from Table 2 (P2APLS66) whilst the factor at NPA 67 comes from Table 3 (P2APLS67).



Example 2 – Lump sum election – Lump sum payment required to purchase Added Pension for member and dependant

>	Sex	Male
>	Date of Birth	15/10/1960
>	Normal Pension Age	66 years 7 months
>	Amount of Added Pension intended to purchase	£200 pa
>	Calculation date	01/09/2015
>	Age (last birthday) of member on calculation date	54 years
>	Number of 1 Aprils between calculation date up to	
	and including NPA	12
>	Lump Sum factor $F_{\scriptscriptstyle x}^{\scriptscriptstyle LS}$	8.843 (interpolated)

> Lump Sum, LS, payment required to immediately purchase added pension

$$LS = P \times F_x^{LS} \times F_y^{\text{Re } val}$$

= £200 x 8.843 x 1.27
= £2,246.12

The factors used above were interpolated for non-integer NPA as shown below:

Factor at NPA 66 years 7 month

$$=\left(\frac{5}{12}\right)*Factor\ at\ NPA\ 66+\left(\frac{7}{12}\right)*Factor\ at\ NPA\ 67$$

eg for the Lump Sum factor for 54 year old (unisex factors for member + dependant)

$$=\left(\frac{5}{12}\right) * 9.215 + \left(\frac{7}{12}\right) * 8.578 = 8.843$$

> Revaluation factor $F_{v}^{\text{Re}\,\text{val}}$ (from P2APREVAL)

Note: The factor at NPA 66 comes from Table 2 (P2APLS66) whilst the factor at NPA 67 comes from Table 3 (P2APLS67).



Example 3 – Periodic payments – Added Pension purchased for self and dependant by periodical contributions in the scheme year 2015-16

>	Sex	Male
>	Date of Birth	01/04/1980
>	Normal Pension Age	68 years
>	Amount of monthly contribution	£200 pm
>	Start of periodic payment (calculation date)	01/04/2015
>	Age of member at the start of scheme year	35 years
>	Number of 1 Aprils between calculation date up to	
	and including NPA	33
>	Expected amount of periodic contributions over scheme year 2015-16, C	£2400
>	Periodic Contribution factor F_x^{PC}	4.240
>	Revaluation factor $F_y^{\mathrm{Re}val}$	1.92

> Added pension, P, expected to be purchased by end of scheme year

$$P = \frac{C}{F_x^{PC} \times F_y^{\text{Re } val}}$$
=\frac{2400}{4.240 \times 1.92}
= \mathbf{\mathcal{E}} 294.81 \text{ p.a.}



Example 4 – Periodic contributions – Added Pension purchased for member
and dependant by level payments from 2017-18

>	Sex	Female
>	Date of Birth	18/06/1975
>	Normal Pension Age	67 years
>	Amount of monthly contribution	£100 pm
>	Start date of periodic payments (calculation date)	01/04/2017
>	Age of member at start of scheme year	41 years
>	Number of 1 Aprils between calculation date up to and	
	including NPA	25

Accounting for the member leaving the scheme before completing the payments

>	Date of leaving scheme	31/01/2018
>	Number of months in which member has made contributions	10
>	Total amount of periodic contributions over scheme year 2017-18, C	£100 ×10 = £1000
>	Periodic Contribution factor F_{x}^{PC}	5.789
>	Revaluation factor $F_y^{\text{Re } val}$	1.64
>	Added pension purchased, $P = \frac{C}{F_x^{PC} \times F_y^{\text{Re } val}}$	
	$=\frac{1000}{5.789 \times 1.64}$	

Therefore the member should be granted an added pension of £105.33 pa at the date of leaving.

= £ 105.33 pa



4 Limitations of this guidance

- 4.1 This note is intended for the use of DFP and the scheme administrators for the purposes of demonstrating the application of the factors covered by this guidance only. The information and advice in this note should not be relied upon, or assumed to be appropriate, for any other purpose or by any other person. GAD does not accept any liability to third parties, whether or not GAD has agreed to the disclosure of its advice to the third party.
- 4.2 The factors contained in this note are subject to regular review. Administrators need to ensure that they are using the latest factors, as relevant, when processing cases.
- 4.3 Advice provided by GAD must be taken in context and is intended to be read and used as a whole, not in parts. GAD does not accept responsibility for advice that is altered or used selectively. Clarification should be sought if there is any doubt about the intention or scope of advice provided by GAD.
- 4.4 This note only covers the actuarial principles around the factors covered in this note. Administrators should satisfy themselves that any added pension complies with all legislative requirements including, but not limited to, tax and contracting-out requirements. Any legal advice in this area should be sought from an appropriately qualified person or source. In no circumstances should this guidance take precedence over the scheme rules. If users of this guidance believe it to contain any inconsistencies with the scheme rules, they should bring this to the attention of DFP and GAD.



Appendix A: Factor tables

List of Tables

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- > Table 9: P2APREVAL Alpha Added Pension Revaluation factors



Table 1: P2APLS65 – Alpha Added Pension by Lump Sum factors for normal pension age of 65

	Males	Females	Unisex
Age	Member's pension factor	Member's pension factor	Member + spouse
16	1.806	1.917	2.050
17 18	1.894 1.985	2.010 2.107	2.149 2.252
19	2.081	2.210	2.360
20	2.180	2.315	2.470
21	2.282	2.423	2.584
22	2.388	2.536	2.704
23	2.500	2.655	2.830
24 25	2.617 2.739	2.780 2.911	2.961 3.099
26	2.868	3.048	3.244
27	3.003	3.192	3.395
28	3.144	3.343	3.554
29	3.292	3.501	3.720
30	3.445	3.666	3.893
31 32	3.604 3.770	3.837 4.015	4.072 4.258
33	3.942	4.201	4.452
34	4.121	4.394	4.653
35	4.307	4.595	4.863
36	4.502	4.804	5.081
37	4.704	5.022	5.309
38 39	4.916 5.136	5.250 5.488	5.546 5.793
40	5.366	5.736	6.051
41	5.605	5.996	6.320
42	5.855	6.268	6.600
43	6.116	6.552	6.893
44	6.388	6.850	7.199
<u>45</u> 46	6.672 6.969	7.160 7.483	7.518 7.850
47	7.280	7.819	8.196
48	7.606	8.168	8.557
49	7.946	8.532	8.933
50	8.302	8.913	9.325
51 52	8.675 9.064	9.312 9.729	9.735 10.162
53	9.471	10.165	10.609
54	9.899	10.623	11.077
55	10.349	11.104	11.568
56	10.824	11.609	12.084
57 58	11.327 11.858	12.141 12.700	12.626 13.197
59	12.423	13.292	13.801
60	13.025	13.921	14.443
61	13.669	14.592	15.126
62	14.358	15.310	15.855
63 64	15.100 15.900	16.079	16.637
64 65	16.089	16.907 17.116	17.477 17.694
66	15.631	16.671	17.252
67	15.165	16.217	16.801
68	14.692	15.754	16.342
69 70	14.212	15.284	15.875
<u>70</u> 71	13.726	14.806	15.400 14.919
71 72	13.237 12.746	14.323 13.835	14.434
73	12.258	13.346	13.947
74	11.774	12.857	13.460
75	11.299	12.372	13.217



Table 2: P2APLS66 – Alpha Added Pension by Lump Sum factors for normal pension age of 66

	Males	Females	Unisex
Age	Member's pension factor	Member's pension factor	Member + spouse
16	1.703	1.813	1.946
17	1.785	1.900	2.040
18 19	1.872 1.962	1.992 2.089	2.137 2.239
20	2.055	2.188	2.344
21	2.150	2.290	2.452
22	2.250	2.397	2.565
23 24	2.355	2.509	2.683
24 25	2.465 2.580	2.626 2.749	2.808 2.938
26	2.700	2.878	3.075
27	2.827	3.014	3.218
28	2.960	3.156	3.368
29 30	3.098 3.242	3.305 3.460	3.524 3.687
31	3.391	3.621	3.856
32	3.545	3.789	4.032
33	3.706	3.963	4.214
34	3.873	4.144	4.403
35 36	4.047 4.229	4.332 4.528	4.600 4.805
37	4.417	4.732	5.019
38	4.614	4.946	5.241
39	4.820	5.168	5.473
40	5.033	5.400	5.715
41 42	5.255 5.487	5.643 5.897	5.966 6.229
43	5.729	6.162	6.502
44	5.981	6.439	6.788
45	6.244	6.728	7.085
46	6.519	7.029	7.395
47 48	6.806 7.107	7.341 7.666	7.717 8.052
49	7.421	8.003	8.402
50	7.750	8.356	8.766
51	8.092	8.725	9.145
52 53	8.449 8.823	9.110 9.512	9.541 9.953
53 54	9.215	9.934	10.384
55	9.627	10.376	10.836
56	10.061	10.841	11.310
57 50	10.520	11.328	11.808
58 59	11.004 11.518	11.839 12.379	12.331 12.883
60	12.066	12.953	13.468
61	12.650	13.564	14.091
62	13.276	14.216	14.755
63 64	13.949 14.674	14.914 15.666	15.466 16.229
65	15.456	16.476	17.050
66	15.631	16.671	17.252
67	15.165	16.217	16.801
68	14.692	15.754	16.342
69 70	14.212 13.726	15.284 14.806	15.875 15.400
70	13.720	14.323	14.919
72	12.746	13.835	14.434
73	12.258	13.346	13.947
74 75	11.774	12.857	13.460
75	11.299	12.372	13.217



Table 3: P2APLS67 – Alpha Added Pension by Lump Sum factors for normal pension age of 67

	Males	Females	Unisex
Age	Member's pension factor	Member's pension factor	Member + spouse
16	1.607	1.715	1.850
17	1.684	1.798	1.938
18	1.766	1.885	2.031
19 20	1.851 1.938	1.977 2.070	2.127 2.226
21	2.028	2.166	2.328
22	2.121	2.267	2.435
23	2.220	2.372	2.547
24	2.323	2.483	2.665
25	2.431	2.599	2.788
26 27	2.544 2.663	2.721 2.848	2.917 3.052
28	2.788	2.982	3.194
29	2.918	3.122	3.342
30	3.052	3.268	3.496
31	3.192	3.420	3.655
32	3.336	3.577	3.821
33	3.487 3.643	3.741	3.992
34 35	3.805	3.911 4.087	4.171 4.356
36	3.974	4.271	4.548
37	4.150	4.463	4.749
38	4.334	4.662	4.958
39	4.525	4.870	5.175
40	4.723	5.087	5.401
41 42	4.930 5.145	5.314 5.551	5.637 5.883
43	5.369	5.799	6.139
44	5.602	6.057	6.405
45	5.846	6.327	6.683
46	6.100	6.607	6.971
47	6.365	6.897	7.271
48 49	6.643 6.933	7.198 7.511	7.583 7.908
50	7.235	7.837	8.246
51	7.550	8.178	8.597
52	7.878	8.534	8.962
53	8.220	8.905	9.343
54	8.578	9.293	9.740
<u>55</u> 56	8.954 9.351	9.699 10.125	10.156 10.591
50 57	9.769	10.125	11.048
58	10.209	11.038	11.526
59	10.676	11.530	12.029
60	11.173	12.052	12.562
61	11.703	12.607	13.129
62 63	12.269 12.878	13.198 13.831	13.732 14.377
63 64	13.534	13.831	14.377
65	14.241	15.245	15.813
66	15.004	16.035	16.614
67	15.165	16.217	16.801
68	14.692	15.754	16.342
69 70	14.212	15.284	15.875 15.400
70 71	13.726 13.237	14.806 14.323	15.400 14.919
71 72	12.746	13.835	14.434
73	12.258	13.346	13.947
74	11.774	12.857	13.460
75	11.299	12.372	13.217



Table 4: P2APLS68 – Alpha Added Pension by Lump Sum factors for normal pension age of 68

	Males	Females	Unisex
Age	Member's pension factor	Member's pension factor	Member + spouse
16	1.517	1.625	1.760
17	1.590	1.703	1.844
18	1.667 1.747	1.786	1.931
19 20	1.747	1.872 1.960	2.023 2.117
21	1.914	2.051	2.214
22	2.002	2.146	2.315
23	2.094	2.245	2.421
24	2.191	2.350	2.532
25	2.293	2.459	2.649
26	2.399	2.574	2.771
27	2.511	2.694	2.899
28	2.628	2.820	3.033
29	2.750	2.952	3.173
30	2.876 3.007	3.090 3.233	3.318 3.469
31 32	3.142	3.233	3.625
33	3.283	3.535	3.786
34	3.429	3.694	3.954
35	3.580	3.860	4.129
36	3.738	4.032	4.310
37	3.902	4.212	4.499
38	4.073	4.399	4.695
39	4.251	4.593	4.899
40	4.435	4.797	5.111
41 42	4.627 4.827	5.009 5.230	5.331 5.561
42	5.035	5.230 5.461	5.801
44	5.251	5.703	6.050
45	5.476	5.954	6.309
46	5.711	6.215	6.578
47	5.956	6.484	6.858
48	6.212	6.764	7.148
49	6.479	7.054	7.450
50	6.757	7.356	7.763
51 52	7.047 7.347	7.671 7.999	8.088 8.426
53	7.660	8.341	8.426 8.777
54	7.988	8.698	9.143
55	8.331	9.071	9.525
56	8.692	9.462	9.925
57	9.072	9.870	10.342
58	9.472	10.295	10.779
59	9.895	10.742	11.238
60	10.345	11.216	11.722
61 62	10.824 11.335	11.719 12.254	12.237 12.784
63	11.885	12.827	13.368
64	12.477	13.442	13.994
65	13.115	14.103	14.666
66	13.802	14.817	15.389
67	14.545	15.587	16.169
68	14.692	15.754	16.342
69	14.212	15.284	15.875
70	13.726	14.806	15.400
71 72	13.237 12.746	14.323 13.835	14.919 14.434
72 73	12.746	13.346	13.947
73 74	11.774	12.857	13.460
75	11.299	12.372	13.217



Table 5: P2APPC65 – Alpha Added Pension by Periodical Contribution factors for normal pension age of 65

	Males	Females	Unisex
Age	Member's pension factor	Member's pension factor	Member + spouse
16	1.855	1.969	2.106
17	1.945	2.064	2.207
18	2.039	2.164	2.313
19	2.138	2.269	2.423
20	2.239	2.377	2.537
21 22	2.343 2.453	2.488 2.605	2.654 2.777
23	2.567	2.727	2.906
24	2.687	2.855	3.041
25	2.813	2.989	3.183
26	2.945	3.130	3.331
27	3.084	3.278	3.487
28	3.229	3.433	3.650
29	3.381	3.595	3.820
30	3.538	3.765	3.998
31	3.702	3.941	4.182
32	3.872	4.124	4.373
33 34	4.048 4.232	4.314 4.512	4.572 4.779
35	4.232 4.424	4.719	4.779
36	4.623	4.934	5.218
37	4.831	5.158	5.452
38	5.048	5.392	5.696
39	5.275	5.636	5.950
40	5.511	5.891	6.214
41	5.757	6.158	6.490
42	6.013	6.437	6.779
43	6.281	6.729	7.080
44	6.560	7.034	7.393
45	6.852	7.353	7.721
46 47	7.157 7.476	7.685 8.030	8.062 8.417
48	7.811	8.388	8.788
49	8.161	8.763	9.174
50	8.527	9.154	9.577
51	8.909	9.563	9.998
52	9.308	9.991	10.437
53	9.727	10.439	10.895
54	10.166	10.910	11.376
<u>55</u>	10.628	11.404	11.880
56 57	11.117	11.923	12.410
57 58	11.633 12.178	12.469 13.043	12.967 13.553
59	12.758	13.650	14.174
60	13.377	14.297	14.832
61	14.038	14.986	15.534
62	14.745	15.723	16.283
63	15.508	16.513	17.086
64	16.330	17.364	17.949
65	16.523	17.578	18.171
66	16.053	17.121	17.718
67	15.575	16.654	17.255
68 60	15.088	16.179	16.783
69 70	14.595 14.096	15.696 15.206	16.303 15.815
70 71	13.594	15.206 14.709	15.322
72	13.090	14.709	14.824
73	12.588	13.706	14.323
74	12.092	13.204	13.823
75	11.604	12.706	13.574



Table 6: P2APPC66 – Alpha Added Pension by Periodical Contribution factors for normal pension age of 66

	Males	Females	Unisex	
Age	Member's pension factor	Member's pension factor	Member + spouse	
16	1.749 1.861		1.999	
17	1.833	1.952	2.095	
18	1.922	2.046	2.195	
19 20	2.015 2.110	2.145 2.247	2.300 2.407	
21	2.208	2.352	2.518	
22	2.311	2.462	2.634	
23	2.418	2.577	2.756	
24	2.531	2.697	2.884	
25	2.649	2.824	3.017	
26	2.773	2.956	3.158	
27	2.903	3.095	3.304	
28	3.040	3.241	3.458	
29 30	3.182 3.329	3.394 3.553	3.619 3.787	
31	3.482	3.719	3.960	
32	3.641	3.891	4.140	
33	3.806	4.070	4.328	
34	3.978	4.255	4.522	
35	4.157	4.449	4.724	
36	4.343	4.650	4.935	
37	4.537	4.860	5.154	
38 39	4.739 4.950	5.079 5.307	5.383 5.621	
40	5.169	5.546	5.869	
41	5.397	5.795	6.127	
42	5.635	6.056	6.397	
43	5.884	6.328	6.678	
44	6.142	6.613	6.971	
45	6.413	6.910	7.276	
46	6.695	7.219	7.594	
47 48	6.990 7.299	7.539 7.872	7.925 8.270	
46 49	7.299 7.622	8.219	8.629	
50	7.959	8.582	9.003	
51	8.311	8.960	9.392	
52	8.677	9.356	9.798	
53	9.061	9.769	10.222	
54	9.463	10.202	10.664	
55	9.886	10.656	11.129	
56 57	10.333 10.804	11.133 11.634	11.616 12.127	
57 58	11.301	12.159	12.127	
59	11.829	12.713	13.231	
60	12.391	13.302	13.832	
61	12.992	13.930	14.471	
62	13.634	14.599	15.153	
63	14.325	15.317	15.883	
64 65	15.071	16.089	16.667	
65 66	15.874 16.053	16.921 17.121	17.510 17.718	
67	15.575	16.654	17.716	
68	15.088	16.179	16.783	
69	14.595	15.696	16.303	
70	14.096	15.206	15.815	
71	13.594	14.709	15.322	
72 70	13.090	14.209	14.824	
73	12.588	13.706	14.323	
74 75	12.092 11.604	13.204 12.706	13.823 13.574	
	11.004	12.700	13.374	



Table 7: P2APPC67 – Alpha Added Pension by Periodical Contribution factors for normal pension age of 67

	Males	Females	Unisex
Age	Member's pension factor	Member's pension factor	Member + spouse
16	1.650	1.762	1.899
17	1.730	1.847	1.991
18 19	1.813 1.901	1.936 2.030	2.085 2.185
20	1.990	2.126	2.165
21	2.082	2.225	2.391
22	2.179	2.328	2.501
23	2.280	2.436	2.616
24	2.386	2.550	2.737
25 26	2.497 2.613	2.669 2.794	2.863 2.996
20 27	2.735	2.794	3.135
28	2.863	3.062	3.280
29	2.996	3.206	3.432
30	3.135	3.357	3.590
31	3.278	3.512	3.754
32 33	3.426 3.581	3.674 3.842	3.924 4.100
33 34	3.741	4.016	4.283
35	3.908	4.198	4.473
36	4.082	4.386	4.671
37	4.262	4.583	4.877
38	4.451	4.788	5.092
39 40	4.647 4.851	5.002 5.225	5.315 5.547
41	5.063	5.458	5.789
42	5.284	5.701	6.041
43	5.514	5.955	6.304
44	5.753	6.221	6.578
45	6.003	6.498	6.863
46 47	6.264 6.537	6.785 7.083	7.160 7.468
48	6.822	7.392	7.788
49	7.120	7.714	8.121
50	7.430	8.049	8.468
51	7.754 8.090	8.399	8.829
52 53	8.442	8.764 9.145	9.204 9.595
54	8.810	9.544	10.003
55	9.196	9.961	10.430
56	9.603	10.399	10.877
57	10.032	10.857	11.346
58 59	10.485 10.964	11.336 11.841	11.837 12.354
60	11.475	12.377	12.902
61	12.019	12.947	13.483
62	12.600	13.554	14.103
63	13.226	14.205	14.765
64 65	13.900	14.904	15.476
65 66	14.626 15.409	15.657 16.468	16.240 17.062
67	15.575	16.654	17.062
68	15.088	16.179	16.783
69	14.595	15.696	16.303
70	14.096	15.206	15.815
71 72	13.594	14.709	15.322
72 73	13.090 12.588	14.209 13.706	14.824 14.323
73 74	12.092	13.204	13.823
75	11.604	12.706	13.574



Table 8: P2APPC68 – Alpha Added Pension by Periodical Contribution factors for normal pension age of 68

	Males	Females	Unisex	
Age	Member's pension factor	Member's pension factor	Member + spouse	
16	1.558	1.669	1.807	
17	1.633	1.749	1.894	
18 19	1.712 1.794	1.834 1.923	1.984	
20	1.794	2.013	2.078 2.174	
21	1.965	2.106	2.273	
22	2.056	2.204	2.377	
23	2.151	2.306	2.486	
24	2.250	2.413	2.600	
25	2.354	2.526	2.720	
26 27	2.464 2.578	2.643 2.767	2.846 2.977	
28	2.699	2.896	3.115	
29	2.824	3.032	3.258	
30	2.954	3.174	3.408	
31	3.088	3.320	3.562	
32	3.227	3.472	3.722	
33	3.371	3.630	3.889 4.061	
34 35	3.521 3.677	3.794 3.964	4.061	
36	3.839	4.141	4.426	
37	4.007	4.325	4.620	
38	4.183	4.517	4.821	
39	4.365	4.717	5.031	
40	4.555	4.926	5.249	
41 42	4.752 4.957	5.144 5.371	5.475 5.712	
43	5.170	5.609	5.958	
44	5.392	5.857	6.214	
45	5.624	6.115	6.480	
46	5.865	6.383	6.756	
47	6.117	6.659	7.043	
48 49	6.380 6.654	6.946 7.244	7.341 7.651	
50	6.940	7.555	7.972	
51	7.237	7.878	8.307	
52	7.546	8.215	8.653	
53	7.867	8.566	9.014	
54	8.203	8.933	9.390	
<u>55</u>	8.556	9.316	9.782	
56 57	8.927 9.317	9.717 10.136	10.192 10.622	
58	9.728	10.130	11.070	
59	10.162	11.032	11.541	
60	10.624	11.519	12.039	
61	11.116	12.035	12.567	
62 63	11.641 12.206	12.585	13.129	
63 64	12.206 12.814	13.173 13.805	13.729 14.372	
65	13.469	14.484	15.062	
66	14.175	15.217	15.805	
67	14.938	16.008	16.606	
68	15.088	16.179	16.783	
69	14.595	15.696	16.303	
70	14.096	15.206	15.815	
71 72	13.594 13.090	14.709 14.209	15.322 14.824	
73	12.588	13.706	14.323	
74	12.092	13.204	13.823	
75	11.604	12.706	13.574	



Table 9: P2APREVAL - Alpha Added Pension Revaluation factors

Number of 1 Aprils	Factor	Number of 1 Aprils	Factor	Number of 1 Aprils	Factor	
0	1.00	17	1.40	34	1.96	
1	1.02	18	1.43	35	2.00	
2	1.04	19	1.46	36	2.04	
3	1.06	20	1.49	37	2.08	
4	1.08	21	1.52	38	2.12	
5	1.10	22	1.55	39	2.16	
6	1.13	23	1.58	40	2.21	
7	1.15	24	1.61	41	2.25	
8	1.17	25	1.64	42	2.30	
9	1.20	26	1.67	43	2.34	
10	1.22	27	1.71	44	2.39	
11	1.24	28	1.74	45	2.44	
12	1.27	29	1.78	46	2.49	
13	1.29	30	1.81	47	2.54	
14	1.32	31	1.85	48	2.59	
15	1.35	32	1.88	49	2.64	
16	1.37	33	1.92	50	2.69	