

**VOLUME 7B, APPENDIX F: “SURVIVOR BENEFIT PLAN (SBP)/RETIRED
SERVICEMAN’S FAMILY PROTECTION PLAN (RSFPP) COMPOUND INTEREST
TABLE”**

SUMMARY OF MAJOR CHANGES

All changes are denoted by [blue font](#).

Substantive revisions are denoted by an asterisk (*) symbol preceding the section, paragraph, table, or figure that includes the revision.

Unless otherwise noted, chapters referenced are contained in this volume.

Hyperlinks are denoted by [bold, italic, blue, and underlined font](#).

The previous version dated [April 2019](#) is archived.

| PARAGRAPH | EXPLANATION OF CHANGE/REVISION | PURPOSE |
|------------------|--|----------------|
| All | Updated hyperlinks and formatting to comply with current administrative instructions. | Revision |
| F00103 | Deleted “Authoritative Guidance” to conform with other appendix structures. | Deletion |
| Table F-1 | Updated all Compound Interest Factors. | Revision |
| References | Added “SBP/RSFPP Compound Interest Table” reference source based on memorandum dated September 22, 2020, from the Department of Defense Office of the Actuary. | Addition |

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APPENDIX F

**SURVIVOR BENEFIT PLAN (SBP)/RETIRED SERVICEMAN'S FAMILY
PROTECTION PLAN (RSFPP) COMPOUND INTEREST TABLE**

*F001 GENERAL

F00101. Overview

In some circumstances, a retiree can become responsible for past SBP costs plus accrued interest. For example, when the level of Survivor Benefit Plan (SBP) coverage is increased, the retired member becomes responsible for the costs that would have been incurred had the higher level of coverage been elected originally, plus compounded interest.

F00102. Purpose

Annually, the DoD Office of the Actuary (OACT) releases a memorandum establishing the premium annuity factors that are to be used to determine how much a retiree owes for past SBP premiums when accrued interest is an additional cost as shown on Table F-1. The OACT memorandum may be found on OACT website under SBP Determining Past and [*Delinquent Premiums with Interest.*](#)

APPENDIX F

*Table F-1. SBP/RSFPP COMPOUND INTEREST TABLE
(Period October 1, 2021 – Current Date)

| Total PaymentsDue | Compound Interest Factor | Total PaymentsDue | Compound Interest Factor | Total Payments Due | Compound Interest Factor |
|----------------------|-----------------------------|-------------------|-----------------------------|-----------------------|-----------------------------|
| 1 | 1.00000 | 41 | 42.00918 | 81 | 85.05318 |
| 2 | 2.00121 | 42 | 43.06007 | 82 | 86.15622 |
| 3 | 3.00364 | 43 | 44.11223 | 83 | 87.26059 |
| 4 | 4.00727 | 44 | 45.16567 | 84 | 88.36630 |
| 5 | 5.01213 | 45 | 46.22039 | 85 | 89.47334 |
| 6 | 6.01820 | 46 | 47.27638 | 86 | 90.58173 |
| 7 | 7.02549 | 47 | 48.33365 | 87 | 91.69146 |
| 8 | 8.03400 | 48 | 49.39220 | 88 | 92.80254 |
| 9 | 9.04373 | 49 | 50.45203 | 89 | 93.91496 |
| 10 | 10.05469 | 50 | 51.51315 | 90 | 95.02873 |
| 11 | 11.06687 | 51 | 52.57556 | 91 | 96.14385 |
| 12 | 12.08028 | 52 | 53.63925 | 92 | 97.26032 |
| 13 | 13.09491 | 53 | 54.70423 | 93 | 98.37814 |
| 14 | 14.11077 | 54 | 55.77049 | 94 | 99.49732 |
| 15 | 15.12787 | 55 | 56.83806 | 95 | 100.61785 |
| 16 | 16.14619 | 56 | 57.90691 | 96 | 101.73974 |
| 17 | 17.16575 | 57 | 58.97706 | 97 | 102.86299 |
| 18 | 18.18655 | 58 | 60.04850 | 98 | 103.98760 |
| 19 | 19.20858 | 59 | 61.12125 | 99 | 105.11357 |
| 20 | 20.23185 | 60 | 62.19529 | 100 | 106.24090 |
| 21 | 21.25636 | 61 | 63.27063 | 101 | 107.36960 |
| 22 | 22.28211 | 62 | 64.34728 | 102 | 108.49967 |
| 23 | 23.30910 | 63 | 65.42523 | 103 | 109.63111 |
| 24 | 24.33734 | 64 | 66.50449 | 104 | 110.76392 |
| 25 | 25.36682 | 65 | 67.58505 | 105 | 111.89810 |
| 26 | 26.39755 | 66 | 68.66692 | 106 | 113.03365 |
| 27 | 27.42953 | 67 | 69.75011 | 107 | 114.17058 |
| 28 | 28.46276 | 68 | 70.83460 | 108 | 115.30889 |
| 29 | 29.49724 | 69 | 71.92041 | 109 | 116.44858 |
| 30 | 30.53297 | 70 | 73.00754 | 110 | 117.58964 |
| 31 | 31.56996 | 71 | 74.09598 | 111 | 118.73209 |
| 32 | 32.60820 | 72 | 75.18574 | 112 | 119.87592 |
| 33 | 33.64770 | 73 | 76.27682 | 113 | 121.02114 |
| 34 | 34.68846 | 74 | 77.36922 | 114 | 122.16775 |
| 35 | 35.73049 | 75 | 78.46295 | 115 | 123.31574 |
| 36 | 36.77377 | 76 | 79.55800 | 116 | 124.46513 |
| 37 | 37.81832 | 77 | 80.65438 | 117 | 125.61591 |
| 38 | 38.86413 | 78 | 81.75208 | 118 | 126.76808 |
| 39 | 39.91121 | 79 | 82.85112 | 119 | 127.92165 |
| 40 | 40.95956 | 80 | 83.95148 | 120 | 129.07661 |

Months Since End of Premium Period (MSEPP) 1.00121

Premium Adjustment Factor (PAF) 1.00061

Multiply Current Premium by Factor in Table by MSEPP Raised to the Number of Months Since Last Premium Divided by PAF

Based on 4.00% Interest Rate, 2.5% COLA yielding 1.46%

Geometric Real Interest Rate = 1.04/1.025 - 1

*Table F-1. SBP/RSFPP COMPOUND INTEREST TABLE (Continued)
(Period October 1, 2021 – Current Date)

| Total Payments Due | Compound Interest Factor | Total Payments Due | Compound Interest Factor | Total Payments Due | Compound Interest Factor |
|--------------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|-----------------------------|
| 121 | 130.23298 | 161 | 177.65454 | 201 | 227.42909 |
| 122 | 131.39074 | 162 | 178.86975 | 202 | 228.70460 |
| 123 | 132.54991 | 163 | 180.08643 | 203 | 229.98166 |
| 124 | 133.71048 | 164 | 181.30459 | 204 | 231.26026 |
| 125 | 134.87246 | 165 | 182.52423 | 205 | 232.54041 |
| 126 | 136.03585 | 166 | 183.74534 | 206 | 233.82211 |
| 127 | 137.20064 | 167 | 184.96793 | 207 | 235.10537 |
| 128 | 138.36685 | 168 | 186.19200 | 208 | 236.39017 |
| 129 | 139.53447 | 169 | 187.41755 | 209 | 237.67654 |
| 130 | 140.70350 | 170 | 188.64459 | 210 | 238.96446 |
| 131 | 141.87395 | 171 | 189.87312 | 211 | 240.25395 |
| 132 | 143.04582 | 172 | 191.10313 | 212 | 241.54499 |
| 133 | 144.21910 | 173 | 192.33464 | 213 | 242.83760 |
| 134 | 145.39381 | 174 | 193.56763 | 214 | 244.13178 |
| 135 | 146.56994 | 175 | 194.80212 | 215 | 245.42752 |
| 136 | 147.74750 | 176 | 196.03811 | 216 | 246.72483 |
| 137 | 148.92648 | 177 | 197.27559 | 217 | 248.02372 |
| 138 | 150.10689 | 178 | 198.51457 | 218 | 249.32418 |
| 139 | 151.28873 | 179 | 199.75505 | 219 | 250.62621 |
| 140 | 152.47201 | 180 | 200.99704 | 220 | 251.92982 |
| 141 | 153.65671 | 181 | 202.24053 | 221 | 253.23501 |
| 142 | 154.84285 | 182 | 203.48552 | 222 | 254.54178 |
| 143 | 156.03043 | 183 | 204.73203 | 223 | 255.85013 |
| 144 | 157.21945 | 184 | 205.98004 | 224 | 257.16007 |
| 145 | 158.40990 | 185 | 207.22957 | 225 | 258.47160 |
| 146 | 159.60180 | 186 | 208.48061 | 226 | 259.78471 |
| 147 | 160.79515 | 187 | 209.73316 | 227 | 261.09942 |
| 148 | 161.98993 | 188 | 210.98723 | 228 | 262.41572 |
| 149 | 163.18617 | 189 | 212.24282 | 229 | 263.73361 |
| 150 | 164.38386 | 190 | 213.49994 | 230 | 265.05310 |
| 151 | 165.58299 | 191 | 214.75857 | 231 | 266.37419 |
| 152 | 166.78358 | 192 | 216.01873 | 232 | 267.69687 |
| 153 | 167.98562 | 193 | 217.28042 | 233 | 269.02116 |
| 154 | 169.18912 | 194 | 218.54364 | 234 | 270.34706 |
| 155 | 170.39408 | 195 | 219.80838 | 235 | 271.67456 |
| 156 | 171.60050 | 196 | 221.07466 | 236 | 273.00367 |
| 157 | 172.80837 | 197 | 222.34247 | 237 | 274.33439 |
| 158 | 174.01772 | 198 | 223.61182 | 238 | 275.66672 |
| 159 | 175.22852 | 199 | 224.88270 | 239 | 277.00066 |
| 160 | 176.44080 | 200 | 226.15513 | 240 | 278.33622 |

Months Since End of Premium Period (MSEPP) 1.00121

Premium Adjustment Factor (PAF) 1.00061

Multiply Current Premium by Factor in Table by MSEPP Raised to the Number of Months Since Last Premium Divided by PAF

Based on 4.00% Interest Rate, 2.5% COLA yielding 1.46%

Geometric Real Interest Rate = 1.04/1.025 - 1

*Table F-1. SBP/RSFPP COMPOUND INTEREST TABLE (Continued)
(Period October 1, 2021 – Current Date)

| Total PaymentsDue | Compound Interest Factor | Total Payments Due | Compound Interest Factor | Total Payments Due | Compound Interest Factor |
|----------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|--------------------------------|
| 241 | 279.67340 | 281 | 334.51001 | 321 | 392.06754 |
| 242 | 281.01220 | 282 | 335.91524 | 322 | 393.54249 |
| 243 | 282.35262 | 283 | 337.32217 | 323 | 395.01923 |
| 244 | 283.69467 | 284 | 338.73080 | 324 | 396.49776 |
| 245 | 285.03834 | 285 | 340.14114 | 325 | 397.97808 |
| 246 | 286.38363 | 286 | 341.55319 | 326 | 399.46020 |
| 247 | 287.73056 | 287 | 342.96695 | 327 | 400.94411 |
| 248 | 289.07912 | 288 | 344.38243 | 328 | 402.42981 |
| 249 | 290.42931 | 289 | 345.79961 | 329 | 403.91732 |
| 250 | 291.78114 | 290 | 347.21852 | 330 | 405.40663 |
| 251 | 293.13461 | 291 | 348.63914 | 331 | 406.89774 |
| 252 | 294.48971 | 292 | 350.06149 | 332 | 408.39066 |
| 253 | 295.84646 | 293 | 351.48555 | 333 | 409.88539 |
| 254 | 297.20485 | 294 | 352.91135 | 334 | 411.38193 |
| 255 | 298.56489 | 295 | 354.33887 | 335 | 412.88028 |
| 256 | 299.92657 | 296 | 355.76811 | 336 | 414.38044 |
| 257 | 301.28991 | 297 | 357.19909 | 337 | 415.88243 |
| 258 | 302.65489 | 298 | 358.63181 | 338 | 417.38623 |
| 259 | 304.02153 | 299 | 360.06626 | 339 | 418.89186 |
| 260 | 305.38982 | 300 | 361.50245 | 340 | 420.39931 |
| 261 | 306.75977 | 301 | 362.94037 | 341 | 421.90858 |
| 262 | 308.13139 | 302 | 364.38004 | 342 | 423.41968 |
| 263 | 309.50466 | 303 | 365.82145 | 343 | 424.93262 |
| 264 | 310.87960 | 304 | 367.26461 | 344 | 426.44739 |
| 265 | 312.25620 | 305 | 368.70952 | 345 | 427.96399 |
| 266 | 313.63447 | 306 | 370.15618 | 346 | 429.48243 |
| 267 | 315.01441 | 307 | 371.60459 | 347 | 431.00270 |
| 268 | 316.39602 | 308 | 373.05475 | 348 | 432.52483 |
| 269 | 317.77930 | 309 | 374.50668 | 349 | 434.04879 |
| 270 | 319.16426 | 310 | 375.96036 | 350 | 435.57460 |
| 271 | 320.55090 | 311 | 377.41580 | 351 | 437.10226 |
| 272 | 321.93922 | 312 | 378.87300 | 352 | 438.63177 |
| 273 | 323.32922 | 313 | 380.33197 | 353 | 440.16313 |
| 274 | 324.72090 | 314 | 381.79271 | 354 | 441.69635 |
| 275 | 326.11427 | 315 | 383.25522 | 355 | 443.23142 |
| 276 | 327.50933 | 316 | 384.71949 | 356 | 444.76836 |
| 277 | 328.90608 | 317 | 386.18555 | 357 | 446.30715 |
| 278 | 330.30452 | 318 | 387.65337 | 358 | 447.84781 |
| 279 | 331.70465 | 319 | 389.12298 | 359 | 449.39034 |
| 280 | 333.10648 | 320 | 390.59437 | 360 | 450.93473 |

Months Since End of Premium Period (MSEPP) 1.00121

Premium Adjustment Factor (PAF) 1.00061

Multiply Current Premium by Factor in Table by MSEPP Raised to the Number of Months Since Last Premium Divided by PAF

Based on 4.00% Interest Rate, 2.5% COLA yielding 1.46%

Geometric Real Interest Rate = 1.04/1.025 - 1

*REFERENCES

**APPENDIX F – SURVIVOR BENEFIT PLAN (SBP)/RETIRED SERVICEMAN’S
FAMILY PROTECTION PLAN (RSFPP) COMPOUND INTEREST
TABLE**

F001 – GENERAL

DoD, OACT Memo, September 22, 2020