Appendix 2-1
Equations

2.1 *U.S. Employment (USEMP)*

UNEMPLOYMENT RATES, PRELIMINARY
[Full estimation details for these equations are available upon request.]

MALE

RM1617_P = RM1617_P(-1) + [-31.52172*D(RTP) - 24.81520*D(RTP(-1)) - 14.72058*D(RTP(-2))
                    - 31.33966*D(RTP(-3))]

RM1819_P = RM1819_P(-1) + [-56.74492*D(RTP) - 24.87344*D(RTP(-1)) - 35.84160*D(RTP(-2))
                    - 0.70217*D(RTP(-3))]

RM2024_P = RM2024_P(-1) + [-52.29093*D(RTP) - 19.73984*D(RTP(-1)) - 15.03600*D(RTP(-2))
                    - 13.47522*D(RTP(-3))]

RM2529_P = RM2529_P(-1) + [-39.13841*D(RTP) - 24.46060*D(RTP(-1)) - 17.51574*D(RTP(-2))
                    - 0.81036*D(RTP(-3))]

RM3034_P = RM3034_P(-1) + [-23.76350*D(RTP) - 22.76416*D(RTP(-1)) - 8.88851*D(RTP(-2))
                    - 11.24022*D(RTP(-3))]

RM3539_P = RM3539_P(-1) + [-28.26931*D(RTP) - 9.02630*D(RTP(-1)) - 14.93420*D(RTP(-2))
                    - 9.03795*D(RTP(-3))]

RM4044_P = RM4044_P(-1) + [-18.16004*D(RTP) - 23.06573*D(RTP(-1)) - 9.94244*D(RTP(-2))
                    - 4.34840*D(RTP(-3))]

RM4549_P = RM4549_P(-1) + [-22.41979*D(RTP) - 16.69081*D(RTP(-1)) - 11.82097*D(RTP(-2))
                    - 1.04890*D(RTP(-3))]

RM5054_P = RM5054_P(-1) + [-23.03219*D(RTP) - 11.75062*D(RTP(-1)) - 8.80293*D(RTP(-2))
                    - 10.36992*D(RTP(-3))]

RM5559_P = RM5559_P(-1) + [-25.47548*D(RTP) - 14.31543*D(RTP(-1)) - 6.15894*D(RTP(-2))
                    - 1.00513*D(RTP(-3))]

RM6064_P = RM6064_P(-1) + [-2.10594*D(RTP) - 17.27891*D(RTP(-1)) - 4.87379*D(RTP(-2))
                    - 15.36088*D(RTP(-3))]

RM6569_P = RM6569_P(-1) + [-13.51567*D(RTP) - 2.41017*D(RTP(-1)) - 17.92290*D(RTP(-2))
                    + 1.48482*D(RTP(-3))]

RM7074_P = RM7074_P(-1) + [-9.76394*D(RTP) - 7.44785*D(RTP(-1)) - 15.23719*D(RTP(-2))
                    + 7.17596*D(RTP(-3))]

RM75O_P = RM75O_P(-1) + [2.47935*D(RTP) - 27.63188*D(RTP(-1)) + 8.35078*D(RTP(-2))
                    - 3.11058*D(RTP(-3))]

FEMALE

RF1617_P = RF1617_P(-1) + [-13.33857*D(RTP) - 1.17140*D(RTP(-1)) - 69.40326*D(RTP(-2))
                    + 9.53209*D(RTP(-3))]

RF1819_P = RF1819_P(-1) + [-42.47852*D(RTP) - 11.03359*D(RTP(-1)) - 0.89011*D(RTP(-2))
                    - 33.04213*D(RTP(-3))]

RF2024_P = RF2024_P(-1) + [-23.03635*D(RTP) - 17.33653*D(RTP(-1)) - 10.59182*D(RTP(-2))
                    - 7.73281*D(RTP(-3))]

RF2529_P = RF2529_P(-1) + [-15.61692*D(RTP) - 12.87215*D(RTP(-1)) - 15.16923*D(RTP(-2))
                    - 3.55380*D(RTP(-3))]

RF3034_P = RF3034_P(-1) + [-14.71130*D(RTP) - 6.25917*D(RTP(-1)) - 18.72755*D(RTP(-2))
                    - 2.42329*D(RTP(-3))]

RF3539_P = RF3539_P(-1) + [-19.78502*D(RTP) - 7.31538*D(RTP(-1)) - 8.69549*D(RTP(-2))
                    - 5.45418*D(RTP(-3))]

RF4044_P = RF4044_P(-1) + [-8.62310*D(RTP) - 10.87758*D(RTP(-1)) - 6.86064*D(RTP(-2))
                    - 4.08914*D(RTP(-3))]

RF4549_P = RF4549_P(-1) + [-9.41764*D(RTP) - 14.45854*D(RTP(-1)) - 0.04687*D(RTP(-2))
                    - 4.15977*D(RTP(-3))]

RF5054_P = RF5054_P(-1) + [-11.37880*D(RTP) - 4.16526*D(RTP(-1)) - 12.32611*D(RTP(-2))
                    - 5.79074*D(RTP(-3))]

RF5559_P = RF5559_P(-1) + [-9.11833*D(RTP) - 2.89447*D(RTP(-1)) - 17.40333*D(RTP(-2))
                    + 0.37368*D(RTP(-3))]

RF6064_P = RF6064_P(-1) + [-21.93195*D(RTP) + 2.80763*D(RTP(-1)) - 11.61244*D(RTP(-2))
                    - 1.60187*D(RTP(-3))]

RF6569_P = RF6569_P(-1) + [6.59281*D(RTP) + 5.16431*D(RTP(-1)) - 35.27026*D(RTP(-2))
                    + 8.58449*D(RTP(-3))]

RF7074_P = RF7074_P(-1) + [-4.25967*D(RTP) + 10.26851*D(RTP(-1)) - 19.18862*D(RTP(-2))
                    + 6.93390*D(RTP(-3))]

RF75O_P = RF75O_P(-1) + [-40.60841*D(RTP) + 42.55417*D(RTP(-1)) - 29.60376*D(RTP(-2))
                    - 14.09088*D(RTP(-3))]

UNEMPLOYMENT RATES, AGE-SEX ADJUSTED, PRELIMINARY

RUM_ASA_P =   (RM1617_P * LM1617_BY + RM1819_P * LM1819_BY + RM2024_P * LM2024_BY
                + RM2529_P * LM2529_BY + RM3034_P * LM3034_BY + RM3539_P * LM3539_BY
                + RM4044_P * LM4044_BY + RM4549_P * LM4549_BY + RM5054_P * LM5054_BY
                + RM5559_P * LM5559_BY + RM6064_P * LM6064_BY + RM6569_P * LM6569_BY
                + RM7074_P * LM7074_BY + RM75O_P * LM75O_BY)/ LCM_BY

RUF_ASA_P =   (RF1617_P * LF1617_BY + RF1819_P * LF1819_BY + RF2024_P * LF2024_BY
                + RF2529_P * LF2529_BY + RF3034_P * LF3034_BY + RF3539_P * LF3539_BY
                + RF4044_P * LF4044_BY + RF4549_P * LF4549_BY + RF5054_P * LF5054_BY
                + RF5559_P * LF5559_BY + RF6064_P * LF6064_BY + RF6569_P * LF6569_BY
                + RF7074_P * LF7074_BY + RF75O_P * LF75O_BY)/ LCF_BY

RU_ASA_P = (RUM_ASA_P * LCM_BY + RUF_ASA_P * LCF_BY) / LC_BY

UNEMPLOYMENT RATES

MALE

RM1617= RM1617_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM1819= RM1819_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM2024= RM2024_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM2529= RM2529_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM3034= RM3034_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM3539= RM3539_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM4044= RM4044_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM4549= RM4549_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM5054= RM5054_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM5559= RM5559_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM6064= RM6064_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM6569= RM6569_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM7074= RM7074_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RM75O = RM75O_P * (1 + RU_ASA_ADJ / RU_ASA_P)

FEMALE

RF1617= RF1617_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF1819= RF1819_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF2024= RF2024_P * (1 + RU_ASA_ADJ / RU_ASA_P)

RF2529= RF2529_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF3034= RF3034_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF3539= RF3539_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF4044= RF4044_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF4549= RF4549_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF5054= RF5054_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF5559= RF5559_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF6064= RF6064_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF6569= RF6569_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF7074= RF7074_P * (1 + RU_ASA_ADJ / RU_ASA_P)
RF75O = RF75O_P * (1 + RU_ASA_ADJ / RU_ASA_P)

UNEMPLOYMENT RATES, AGE-SEX ADJUSTED

RUM_ASA = (RM1617 * LM1617_BY+ RM1819 * LM1819_BY + RM2024 * LM2024_BY + RM2529 * LM2529_BY
　　　　　+ RM3034 * LM3034_BY + RM3539 * LM3539_BY + RM4044 * LM4044_BY + RM4549 * LM4549_BY
　　　　　+ RM5054 * LM5054_BY + RM5559 * LM5559_BY + RM6064 * LM6064_BY + RM6569 * LM6569_BY
　　　　　+ RM7074 * LM7074_BY + RM75O * LM75O_BY)/ LCM_BY

RUF_ASA = (RF1617 * LF1617_BY + RF1819 * LF1819_BY + RF2024 * LF2024_BY + RF2529 * LF2529_BY
　　　　　+ RF3034 * LF3034_BY + RF3539 * LF3539_BY + RF4044 * LF4044_BY + RF4549 * LF4549_BY
　　　　　+ RF5054 * LF5054_BY + RF5559 * LF5559_BY + RF6064 * LF6064_BY + RF6569 * LF6569_BY
　　　　　+ RF7074 * LF7074_BY + RF75O * LF75O_BY)/ LCF_BY

RU_ASA = (RUM_ASA * LCM_BY + RUF_ASA * LCF_BY) / LC_BY

UNEMPLOYMENT RATES, FULL EMPLOYMENT DIFFERENTIALS

MALE

DRM1617_FE = -31.52172*(1 - RTP) - 24.81520*(1 - RTP(-1)) - 14.72058*(1 - RTP(-2)) - 31.33966*(1 - RTP(-3))
DRM1819_FE = -56.74492*(1 - RTP) - 24.87344*(1 - RTP(-1)) - 35.84160*(1 - RTP(-2)) - 0.70217*(1 - RTP(-3))
DRM2024_FE = -52.29093*(1 - RTP) - 19.73984*(1 - RTP(-1)) - 15.03600*(1 - RTP(-2)) - 13.47522*(1 - RTP(-3))
DRM2529_FE = -39.13841*(1 - RTP) - 24.46060*(1 - RTP(-1)) - 17.51574*(1 - RTP(-2)) - 0.81036*(1 - RTP(-3))
DRM3034_FE = -23.76350*(1 - RTP) - 22.76416*(1 - RTP(-1)) - 8.88851*(1 - RTP(-2)) - 11.24022*(1 - RTP(-3))
DRM3539_FE = -28.26931*(1 - RTP) - 9.02630*(1 - RTP(-1)) - 14.93420*(1 - RTP(-2)) - 9.03795*(1 - RTP(-3))
DRM4044_FE = -18.16004*(1 - RTP) - 23.06573*(1 - RTP(-1)) - 9.94244*(1 - RTP(-2)) - 4.34840*(1 - RTP(-3))
DRM4549_FE = -22.41979*(1 - RTP) - 16.69081*(1 - RTP(-1)) - 11.82097*(1 - RTP(-2)) - 1.04890*(1 - RTP(-3))
DRM5054_FE = -23.03219*(1 - RTP) - 11.75062*(1 - RTP(-1)) - 8.80293*(1 - RTP(-2)) - 10.36992*(1 - RTP(-3))
DRM5559_FE = -25.47548*(1 - RTP) - 14.31543*(1 - RTP(-1)) - 6.15894*(1 - RTP(-2)) - 1.00513*(1 - RTP(-3))
DRM6064_FE = -2.10594*(1 - RTP) - 17.27891*(1 - RTP(-1)) - 4.87379*(1 - RTP(-2)) - 15.36088*(1 - RTP(-3))
DRM6569_FE = -13.51567*(1 - RTP) - 2.41017*(1 - RTP(-1)) - 17.92290*(1 - RTP(-2)) + 1.48482*(1 - RTP(-3))
DRM7074_FE = -9.76394*(1 - RTP) - 7.44785*(1 - RTP(-1)) - 15.23719*(1 - RTP(-2)) + 7.17596*(1 - RTP(-3))
DRM75O_FE = 2.47935*(1 - RTP) - 27.63188*(1 - RTP(-1)) + 8.35078*(1 - RTP(-2)) - 3.11058*(1 - RTP(-3))

FEMALE

DRF1617_FE = -13.33857*(1 - RTP) - 1.17140*(1 - RTP(-1)) - 69.40326*(1 - RTP(-2)) + 9.53209*(1 - RTP(-3))
DRF1819_FE = - 42.47852*(1 - RTP) - 11.03359*(1 - RTP(-1)) - 0.89011*(1 - RTP(-2)) - 33.04213*(1 - RTP(-3))
DRF2024_FE = -23.03635*(1 - RTP) - 17.33653*(1 - RTP(-1)) - 10.59182*(1 - RTP(-2)) - 7.73281*(1 - RTP(-3))
DRF2529_FE = -15.61692*(1 - RTP) - 12.87215*(1 - RTP(-1)) - 15.16923*(1 - RTP(-2)) - 3.55380*(1 - RTP(-3))
DRF3034_FE = -14.71130*(1 - RTP) - 6.25917*(1 - RTP(-1)) - 18.72755*(1 - RTP(-2)) - 2.42329*(1 - RTP(-3))
DRF3539_FE = -19.78502*(1 - RTP) - 7.31538*(1 - RTP(-1)) - 8.69549*(1 - RTP(-2)) - 5.45418*(1 - RTP(-3))
DRF4044_FE = -8.62310*(1 - RTP) - 10.87758*(1 - RTP(-1)) - 6.86064*(1 - RTP(-2)) - 4.08914*(1 - RTP(-3))
DRF4549_FE = -9.41764*(1 - RTP) - 14.45854*(1 - RTP(-1)) - 0.04687*(1 - RTP(-2)) - 4.15977*(1 - RTP(-3))
DRF5054_FE = -11.37880*(1 - RTP) - 4.16526*(1 - RTP(-1)) - 12.32611*(1 - RTP(-2)) - 5.79074*(1 - RTP(-3))
DRF5559_FE = -9.11833*(1 - RTP) - 2.89447*(1 - RTP(-1)) - 17.40333*(1 - RTP(-2)) + 0.37368*(1 - RTP(-3))
DRF6064_FE = -21.93195*(1 - RTP) + 2.80763*(1 - RTP(-1)) - 11.61244*(1 - RTP(-2)) - 1.60187*(1 - RTP(-3))

DRF6569_FE = 6.59281*(1 - RTP) + 5.16431*(1 - RTP(-1)) - 35.27026*(1 - RTP(-2)) + 8.58449*(1 - RTP(-3))
DRF7074_FE = - 4.25967*(1 - RTP) + 10.26851*(1 - RTP(-1)) - 19.18862*(1 - RTP(-2)) + 6.93390*(1 - RTP(-3))
DRF75O_FE = - 40.60841*(1 - RTP) + 42.55417*(1 - RTP(-1)) - 29.60376*(1 - RTP(-2)) - 14.09088*(1 - RTP(-3))

UNEMPLOYMENT RATES, FULL EMPLOYMENT DIFFERENTIALS
TOTALS

MALE

RM1617_FE = RM1617 + DRM1617_FE
RM1819_FE = RM1819 + DRM1819_FE
RM2024_FE = RM2024 + DRM2024_FE
RM2529_FE = RM2529 + DRM2529_FE
RM3034_FE = RM3034 + DRM3034_FE
RM3539_FE = RM3539 + DRM3539_FE
RM4044_FE = RM4044 + DRM4044_FE
RM4549_FE = RM4549 + DRM4549_FE
RM5054_FE = RM5054 + DRM5054_FE
RM5559_FE = RM5559 + DRM5559_FE
RM6064_FE = RM6064 + DRM6064_FE
RM6569_FE = RM6569 + DRM6569_FE
RM7074_FE = RM7074 + DRM7074_FE
RM75O_FE = RM75O + DRM75O_FE

FEMALE

RF1617_FE = RF1617 + DRF1617_FE
RF1819_FE = RF1819 + DRF1819_FE
RF2024_FE = RF2024 + DRF2024_FE
RF2529_FE = RF2529 + DRF2529_FE
RF3034_FE = RF3034 + DRF3034_FE
RF3539_FE = RF3539 + DRF3539_FE
RF4044_FE = RF4044 + DRF4044_FE
RF4549_FE = RF4549 + DRF4549_FE
RF5054_FE = RF5054 + DRF5054_FE
RF5559_FE = RF5559 + DRF5559_FE
RF6064_FE = RF6064 + DRF6064_FE
RF6569_FE = RF6569 + DRF6569_FE
RF7074_FE = RF7074 + DRF7074_FE
RF75O_FE = RF75O + DRF75O_FE

LABOR FORCE PARTICIPATION RATES (LFPR)
[Full estimation details for these equations are available upon request.]

MALE LFPR EQUATIONS

MALE 1617 AND 1819
PM1617_P =   [(- 0.00134*RM1617 - 0.00167*RM1617(-1) - 0.00132*RM1617(-2) - 0.00065*RM1617(-3)
                + 0.00003*RM1617(-4) + 0.00035*RM1617(-5))
                 - 0.01009 * TR_M1617 + 0.49638
                + 0.98199] / (1 + RM1617DI)

PM1819_P =   [(- 0.00068*RM1819 - 0.00092*RM1819(-1) - 0.00083*RM1819(-2) - 0.00056*RM1819(-3)
                - 0.00025*RM1819(-4) – 0.00002*RM1819(-5))
                - 0.00780 * TR_M1819 + 0.47128
                + 0.97741] / (1 + RM1819DI)

PM1617 = PM1617_P

PM1819 = PM1819_P

MALE 20 TO 54, NEVER MARRIED
PM2024NM_P = [(- 0.00053*RM2024 - 0.00074*RM2024(-1) - 0.00071*RM2024(-2) - 0.00054*RM2024(-3)
          - 0.00030*RM2024(-4) – 0.00010*RM2024(-5))
          - 0.00310 * TR_M2024
          + 1.12658] / (1 + RM2024DI)

PM2529NM_P = [(- 0.00031*RM2529 - 0.00053*RM2529(-1) - 0.00066*RM2529(-2) - 0.00068*RM2529(-3)
          - 0.00058*RM2529(-4) - 0.00036*RM2529(-5))
          - 0.00091 * TR_M2529
          + 0.99893] / (1 + RM2529DI)

PM3034NM_P = [(- 0.00001*RM3034 - 0.00018*RM3034(-1) - 0.00040*RM3034(-2) - 0.00058*RM3034(-3)
          - 0.00064*RM3034(-4) - 0.00047*RM3034(-5))
          + 0.89877] / (1 + RM3034DI)

PM3539NM_P = [(0.00048*RM3539 + 0.00037*RM3539(-1) – 0.00007*RM3539(-2) - 0.00058*RM3539(-3)
          - 0.00091*RM3539(-4) - 0.00080*RM3539(-5))
          + 0.87015] / (1 + RM3539DI)

PM4044NM_P = [(- 0.00018*RM4044 - 0.00026*RM4044(-1) - 0.00027*RM4044(-2) - 0.00022*RM4044(-3)
          - 0.00014*RM4044(-4) – 0.00006*RM4044(-5))
          + 0.83848] / (1 + RM4044DI)

PM4549NM_P = [(0.00004*RM4549 - 0.00011*RM4549(-1) - 0.00036*RM4549(-2) - 0.00059*RM4549(-3)
          - 0.00068*RM4549(-4) - 0.00052*RM4549(-5))
          + 0.80657] / (1 + RM4549DI)

PM5054NM_P = [(0.00115*RM5054 + 0.00089*RM5054(-1) - 0.00017*RM5054(-2) - 0.00141*RM5054(-3)
          - 0.00220*RM5054(-4) - 0.00194*RM5054(-5))
          + 0.77113] / (1 + RM5054DI)

MALE 20 TO 54, MARRIED, SPOUSE PRESENT
PM2024MS_P = [(- 0.00053*RM2024 - 0.00074*RM2024(-1) - 0.00071*RM2024(-2) - 0.00054*RM2024(-3)
          - 0.00030*RM2024(-4) – 0.00010*RM2024(-5))
          - 0.00141 * TR_M2024
          + 1.10245] / (1 + RM2024DI)

PM2529MS_P = [(- 0.00031*RM2529 - 0.00053*RM2529(-1) - 0.00066*RM2529(-2) - 0.00068*RM2529(-3)
          - 0.00058*RM2529(-4) - 0.00036*RM2529(-5))
          - 0.00048 * TR_M2529
          + 1.02497] / (1 + RM2529DI)

PM3034MS_P = [(- 0.00001*RM3034 - 0.00018*RM3034(-1) - 0.00040*RM3034(-2) - 0.00058*RM3034(-3)
          - 0.00064*RM3034(-4) - 0.00047*RM3034(-5))
          + 0.97980] / (1 + RM3034DI)

PM3539MS_P = [(0.00048*RM3539 + 0.00037*RM3539(-1) – 0.00007*RM3539(-2) - 0.00058*RM3539(-3)
          - 0.00091*RM3539(-4) - 0.00080*RM3539(-5))
          + 0.98104] / (1 + RM3539DI)

PM4044MS_P = [(- 0.00018*RM4044 - 0.00026*RM4044(-1) - 0.00027*RM4044(-2) - 0.00022*RM4044(-3)
          - 0.00014*RM4044(-4) – 0.00006*RM4044(-5))
          + 0.98178] / (1 + RM4044DI)

PM4549MS_P = [(0.00004*RM4549 - 0.00011*RM4549(-1) - 0.00036*RM4549(-2) - 0.00059*RM4549(-3)
          - 0.00068*RM4549(-4) - 0.00052*RM4549(-5))
          + 0.98395] / (1 + RM4549DI)

PM5054MS_P = [(0.00115*RM5054 + 0.00089*RM5054(-1) - 0.00017*RM5054(-2) - 0.00141*RM5054(-3)

$$- 0.00220*RM5054(-4) - 0.00194*RM5054(-5))$$
$$+ 0.97763] / (1 + RM5054DI)$$

MALE 20 TO 54, MARRIED, SPOUSE ABSENT

$$PM2024MA\_P = [(- 0.00053*RM2024 - 0.00074*RM2024(-1) - 0.00071*RM2024(-2) - 0.00054*RM2024(-3)$$
$$- 0.00030*RM2024(-4) – 0.00010*RM2024(-5))$$
$$- 0.00441 * TR\_M2024$$
$$+ 1.33014] / (1 + RM2024DI)$$

$$PM2529MA\_P = [(- 0.00031*RM2529 - 0.00053*RM2529(-1) - 0.00066*RM2529(-2) - 0.00068*RM2529(-3)$$
$$- 0.00058*RM2529(-4) - 0.00036*RM2529(-5))$$
$$- 0.00061 * TR\_M2529$$
$$+ 0.98620] / (1 + RM2529DI)$$

$$PM3034MA\_P = [(- 0.00001*RM3034 - 0.00018*RM3034(-1) - 0.00040*RM3034(-2) - 0.00058*RM3034(-3)$$
$$- 0.00064*RM3034(-4) - 0.00047*RM3034(-5))$$
$$+ 0.93031] / (1 + RM3034DI)$$

$$PM3539MA\_P = [(0.00048*RM3539 + 0.00037*RM3539(-1) – 0.00007*RM3539(-2) - 0.00058*RM3539(-3)$$
$$- 0.00091*RM3539(-4) - 0.00080*RM3539(-5))$$
$$+ 0.92144] / (1 + RM3539DI)$$

$$PM4044MA\_P = [(- 0.00018*RM4044 - 0.00026*RM4044(-1) - 0.00027*RM4044(-2) - 0.00022*RM4044(-3)$$
$$- 0.00014*RM4044(-4) – 0.00006*RM4044(-5))$$
$$+ 0.90958] / (1 + RM4044DI)$$

$$PM4549MA\_P = [(0.00004*RM4549 - 0.00011*RM4549(-1) - 0.00036*RM4549(-2) - 0.00059*RM4549(-3)$$
$$- 0.00068*RM4549(-4) - 0.00052*RM4549(-5))$$
$$+ 0.88963] / (1 + RM4549DI)$$

$$PM5054MA\_P = [(0.00115*RM5054 + 0.00089*RM5054(-1) - 0.00017*RM5054(-2) - 0.00141*RM5054(-3)$$
$$- 0.00220*RM5054(-4) - 0.00194*RM5054(-5))$$
$$+ 0.85714] / (1 + RM5054DI)$$

MALE AGE 20 TO 54

PM2024_P = (PM2024NM_P * NM2024NM + PM2024MS_P * NM2024MS + PM2024MA_P * NM2024MA) / NM2024
PM2529_P = (PM2529NM_P * NM2529NM + PM2529MS_P * NM2529MS + PM2529MA_P * NM2529MA) / NM2529
PM3034_P = (PM3034NM_P * NM3034NM + PM3034MS_P * NM3034MS + PM3034MA_P * NM3034MA) / NM3034
PM3539_P = (PM3539NM_P * NM3539NM + PM3539MS_P * NM3539MS + PM3539MA_P * NM3539MA) / NM3539
PM4044_P = (PM4044NM_P * NM4044NM + PM4044MS_P * NM4044MS + PM4044MA_P * NM4044MA) / NM4044
PM4549_P = (PM4549NM_P * NM4549NM + PM4549MS_P * NM4549MS + PM4549MA_P * NM4549MA) / NM4549
PM5054_P = (PM5054NM_P * NM5054NM + PM5054MS_P * NM5054MS + PM5054MA_P * NM5054MA) / NM5054

PM2024 = PM2024_P
PM2529 = PM2529_P
PM3034 = PM3034_P
PM3539 = PM3539_P
PM4044 = PM4044_P
PM4549 = PM4549_P
PM5054 = PM5054_P

PM2024NM = PM2024NM_P * PM2024 / PM2024_P
PM2529NM = PM2529NM_P * PM2529 / PM2529_P
PM3034NM = PM3034NM_P * PM3034 / PM3034_P
PM3539NM = PM3539NM_P * PM3539 / PM3539_P
PM4044NM = PM4044NM_P * PM4044 / PM4044_P
PM4549NM = PM4549NM_P * PM4549 / PM4549_P
PM5054NM = PM5054NM_P * PM5054 / PM5054_P

PM2024MS = PM2024MS_P * PM2024 / PM2024_P
PM2529MS = PM2529MS_P * PM2529 / PM2529_P

PM3034MS = PM3034MS_P * PM3034 / PM3034_P
PM3539MS = PM3539MS_P * PM3539 / PM3539_P
PM4044MS = PM4044MS_P * PM4044 / PM4044_P
PM4549MS = PM4549MS_P * PM4549 / PM4549_P
PM5054MS = PM5054MS_P * PM5054 / PM5054_P

PM2024MA = PM2024MA_P * PM2024 / PM2024_P
PM2529MA = PM2529MA_P * PM2529 / PM2529_P
PM3034MA = PM3034MA_P * PM3034 / PM3034_P
PM3539MA = PM3539MA_P * PM3539 / PM3539_P
PM4044MA = PM4044MA_P * PM4044 / PM4044_P
PM4549MA = PM4549MA_P * PM4549 / PM4549_P
PM5054MA = PM5054MA_P * PM5054 / PM5054_P

MALE AGE 55 TO 74
PM55_P = [0.00197*EDSCOREM55 - 0.09058*MSSHARE_M55 + 0.95174] / (1 + RM55DI)

PM56_P = [-0.01821*EDSCOREM56 - 0.10617*MSSHARE_M56 + 0.98672] / (1 + RM56DI)

PM57_P = [-0.01861*EDSCOREM57 - 0.21015*MSSHARE_M57 + 1.05211] / (1 + RM57DI)

PM58_P = [0.01509*EDSCOREM58 - 0.22982*MSSHARE_M58 + 0.99265] / (1 + RM58DI)

PM59_P = [0.00952*EDSCOREM59 - 0.30748*MSSHARE_M59 + 1.04218] / (1 + RM59DI)

PM60_P = [0.03704*EDSCOREM60 - 0.32468*MSSHARE_M60 + 0.96171] / (1 + RM60DI)

PM61_P = [0.00718*EDSCOREM61 - 0.44317*MSSHARE_M61 + 1.07617] / (1 + RM61DI)

PM62_P = [- 0.60*RRADJ_M62 – 0.02*POT_ET_TXRT_62
         + 0.10092*EDSCOREM62 - 0.55927*MSSHARE_M62 + 1.09868] / (1 + RM62DI)

PM63_P = [- 0.55*RRADJ_M63 – 0.02*POT_ET_TXRT_63
         + 0.06427*EDSCOREM63 - 0.95029*MSSHARE_M63 + 1.39001] / (1 + RM63DI)

PM64_P = [- 0.50*RRADJ_M64 – 0.02*POT_ET_TXRT_64
         + 0.05462*EDSCOREM64 - 1.01565*MSSHARE_M64 + 1.40427] / (1 + RM64DI)

PM65_P = [- 0.45*RRADJ_M65 – 0.02*POT_ET_TXRT_65
         + 0.14092*EDSCOREM65 - 0.56959*MSSHARE_M65 + 0.83637] / (1 + RM65DI)

PM66_P = [- 0.40*RRADJ_M66 – 0.02*POT_ET_TXRT_66
         + 0.08401*EDSCOREM66 - 0.71602*MSSHARE_M66 + 0.99009] / (1 + RM66DI)

PM67_P = [- 0.35*RRADJ_M67 – 0.02*POT_ET_TXRT_67
         + 0.09458*EDSCOREM67 - 0.80679*MSSHARE_M67 + 0.98465] / (1 + RM67DI)

PM68_P = [- 0.30*RRADJ_M68 – 0.02*POT_ET_TXRT_68
         + 0.11230*EDSCOREM68 - 0.91881*MSSHARE_M68 + 0.99375] / (1 + RM68DI)

PM69_P = [- 0.30*RRADJ_M69 – 0.02*POT_ET_TXRT_69
         + 0.09610*EDSCOREM69 - 0.83697*MSSHARE_M69 + 0.93415] / (1 + RM69DI)

PM70_P = [0.09997*EDSCOREM70 - 0.22828*MSSHARE_M70 + 0.28131] / (1 + RM70DI)

PM71_P = [0.12351*EDSCOREM71 + 0.13152*MSSHARE_M71 - 0.04761] / (1 + RM71DI)

PM72_P = [0.13620*EDSCOREM72 - 0.19020*MSSHARE_M72 + 0.15703] / (1 + RM72DI)

PM73_P = [0.13710*EDSCOREM73 + 0.26157*MSSHARE_M73 - 0.20437] / (1 + RM73DI)

PM74_P = [0.13464*EDSCOREM74 + 0.42963*MSSHARE_M74 - 0.34404] / (1 + RM74DI)

MALE AGE 75 TO 79

PM75_P = PM74(-4) * 0.92

PM76_P = PM75(-4) * 0.92

PM77_P = PM76(-4) * 0.92

PM78_P = PM77(-4) * 0.92

PM79_P = PM78(-4) * 0.92

MALE AGE 55 TO 79

PM55 = PM55_P

PM56 = PM56_P

PM57 = PM57_P

PM58 = PM58_P

PM59 = PM59_P

PM60 = PM60_P

PM61 = PM61_P

PM62 = PM62_P

PM63 = PM63_P

PM64 = PM64_P

PM65 = PM65_P

PM66 = PM66_P

PM67 = PM67_P

PM68 = PM68_P

PM69 = PM69_P

PM70 = PM70_P

PM71 = PM71_P

PM72 = PM72_P

PM73 = PM73_P

PM74 = PM74_P

PM75 = PM75_P

PM76 = PM76_P

PM77 = PM77_P

PM78 = PM78_P

PM79 = PM79_P

MALE AGE 80 AND OVER

PM80_P = PM79(-4)   * 0.965 ^ 1

PM81_P = PM79(-8)   * 0.965 ^ 2

PM82_P = PM79(-12)   * 0.965 ^ 3

PM83_P = PM79(-16)   * 0.965 ^ 4

PM84_P = PM79(-20)   * 0.965 ^ 5

PM85_P = MOVAVG(8,PM79(-24)) * 0.965 ^ 6

PM86_P = MOVAVG(8,PM79(-28)) * 0.965 ^ 7

PM87_P = MOVAVG(8,PM79(-32)) * 0.965 ^ 8

PM88_P = MOVAVG(8,PM79(-36)) * 0.965 ^ 9

PM89_P = MOVAVG(8,PM79(-40)) * 0.965 ^ 10

PM90_P = MOVAVG(8,PM79(-44)) * 0.965 ^ 11

PM91_P = MOVAVG(8,PM79(-48)) * 0.965 ^ 12

PM92_P = MOVAVG(8,PM79(-52)) * 0.965 ^ 13

PM93_P = MOVAVG(8,PM79(-56)) * 0.965 ^ 14

PM94_P = MOVAVG(8,PM79(-60)) * 0.965 ^ 15

PM95_P = PM94_P * 0.965

PM96_P = PM95_P * 0.965

PM97_P = PM96_P * 0.965

PM98_P = PM97_P * 0.965

PM99_P = PM98_P * 0.965

PM100_P = PM99_P * 0.965

PM80O_P = (PM80_P*NM80 + PM81_P*NM81 + PM82_P*NM82 + PM83_P*NM83 + PM84_P*NM84
           + PM85_P*NM85 + PM86_P*NM86 + PM87_P*NM87 + PM88_P*NM88 + PM89_P*NM89
           + PM90_P*NM90 + PM91_P*NM91 + PM92_P*NM92 + PM93_P*NM93 + PM94_P*NM94
           + PM95_P*NM95 + PM96_P*NM96 + PM97_P*NM97 + PM98_P*NM98 + PM99_P*NM99
           + PM100_P*NM100) / NM80O

PM80O = PM80O_P

PM80 = PM80_P * PM80O / PM80O_P

PM81 = PM81_P * PM80O / PM80O_P

PM82 = PM82_P * PM80O / PM80O_P

PM83 = PM83_P * PM80O / PM80O_P

PM84 = PM84_P * PM80O / PM80O_P

PM85 = PM85_P * PM80O / PM80O_P

PM86 = PM86_P * PM80O / PM80O_P

PM87 = PM87_P * PM80O / PM80O_P

PM88 = PM88_P * PM80O / PM80O_P

PM89 = PM89_P * PM80O / PM80O_P

PM90 = PM90_P * PM80O / PM80O_P

PM91 = PM91_P * PM80O / PM80O_P

PM92 = PM92_P * PM80O / PM80O_P

PM93 = PM93_P * PM80O / PM80O_P

PM94 = PM94_P * PM80O / PM80O_P

PM95 = PM95_P * PM80O / PM80O_P

PM96 = PM96_P * PM80O / PM80O_P

PM97 = PM97_P * PM80O / PM80O_P

PM98 = PM98_P * PM80O / PM80O_P

PM99 = PM99_P * PM80O / PM80O_P

PM100 = PM100_P * PM80O / PM80O_P

FEMALE LFPR EQUATIONS

FEMALE 1617 AND 1819
PF1617_P =   [- 0.00214*RF1617 - 0.00256*RF1617(-1) - 0.00184*RF1617(-2) - 0.00062*RF1617(-3)
                + 0.00050*RF1617(-4) + 0.00091*RF1617(-5)
                - 0.33769 * RF1617CU6 + 0.01223
                - 0.00981 * TR_F1617 + 0.50143
                + 0.98698] / (1 + RF1617DI)

PF1819_P =   [- 0.00118*RF1819 - 0.00145*RF1819(-1) - 0.00112*RF1819(-2) - 0.00050*RF1819(-3)
                + 0.00010*RF1819(-4) + 0.00037*RF1819(-5)
                - 0.42102 * RF1819CU6 - 0.01160
                - 0.00829 * TR_F1819 + 0.55840
                + 0.98042] / (1 + RF1819DI)

PF1617   = PF1617_p
PF1819   = PF1819_p

FEMALE 20 TO 44, NEVER MARRIED WITH AT LEAST ONE CHILD UNDER 6:
PF2024NMC6U_P = [- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
                 - 0.00075*RF2024(-4) - 0.00055*RF2024(-5)
                 + 0.69322] / (1 + RF2024DI)

PF2529NMC6U_P = [0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
                 - 0.00143*RF2529(-4) - 0.00121*RF2529(-5)
                 + 0.72672] / (1 + RF2529DI)

PF3034NMC6U_P = [0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
                 - 0.00090*RF3034(-4) - 0.00087*RF3034(-5)
                 + 0.72034] / (1 + RF3034DI)

PF3539NMC6U_P = [0.00040*RF3539 + 0.00032*RF3539(-1) – 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
                 - 0.00074*RF3539(-4) - 0.00066*RF3539(-5)
                 + 0.72644] / (1 + RF3539DI)

PF4044NMC6U_P = [0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
                 - 0.00176*RF4044(-4) - 0.00160*RF4044(-5)
                 + 0.71893] / (1 + RF4044DI)

FEMALE 20 TO 44, NEVER MARRIED WITH NO CHILDREN UNDER 6:
PF2024NMNC6_P = [- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
                 - 0.00075*RF2024(-4) - 0.00055*RF2024(-5
                 - 0.00297 * TR_F2024
                 + 1.07188] / (1 + RF2024DI)

PF2529NMNC6_P = [0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
                 - 0.00143*RF2529(-4) - 0.00121*RF2529(-5)
                 - 0.00077 * TR_F2529
                 + 0.94654] / (1 + RF2529DI)

PF3034NMNC6_P = [0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
                 - 0.00090*RF3034(-4) - 0.00087*RF3034(-5)
                 + 0.84866] / (1 + RF3034DI)

PF3539NMNC6_P = [0.00040*RF3539 + 0.00032*RF3539(-1) − 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
$\quad$ - 0.00074*RF3539(-4) - 0.00066*RF3539(-5)
$\quad$ + 0.83195] / (1 + RF3539DI)

PF4044NMNC6_P = [0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
$\quad$ - 0.00176*RF4044(-4) - 0.00160*RF4044(-5)
$\quad$ + 0.82513] / (1 + RF4044DI)

FEMALE 20 TO 44, MARRIED, SPOUSE PRESENT, WITH AT LEAST ONE CHILD UNDER 6:
PF2024MSC6U_P = [- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
$\quad$ - 0.00075*RF2024(-4) - 0.00055*RF2024(-5)
$\quad$ + 0.53561] / (1 + RF2024DI)

PF2529MSC6U_P = [0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
$\quad$ - 0.00143*RF2529(-4) - 0.00121*RF2529(-5)
$\quad$ + 0.61916] / (1 + RF2529DI)

PF3034MSC6U_P = [0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
$\quad$ - 0.00090*RF3034(-4) - 0.00087*RF3034(-5
$\quad$ + 0.65485] / (1 + RF3034DI)

PF3539MSC6U_P = [0.00040*RF3539 + 0.00032*RF3539(-1) − 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
$\quad$ - 0.00074*RF3539(-4) - 0.00066*RF3539(-5)
$\quad$ + 0.66673] / (1 + RF3539DI)

PF4044MSC6U_P = [0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
$\quad$ - 0.00176*RF4044(-4) - 0.00160*RF4044(-5)
$\quad$ + 0.67612] / (1 + RF4044DI)

FEMALE 20 TO 44, MARRIED, SPOUSE PRESENT WITH NO CHILDREN UNDER 6:
PF2024MSNC6_P = [- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
$\quad$ - 0.00075*RF2024(-4) - 0.00055*RF2024(-5)
$\quad$ - 0.00175 * TR_F2024
$\quad$ + 0.98277] / (1 + RF2024DI)

PF2529MSNC6_P =[0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
$\quad$ - 0.00143*RF2529(-4) - 0.00121*RF2529(-5)
$\quad$ - 0.00050 * TR_F2529
$\quad$ + 0.88519] / (1 + RF2529DI)

PF3034MSNC6_P =[0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
$\quad$ - 0.00090*RF3034(-4) - 0.00087*RF3034(-5)
$\quad$ + 0.80007] / (1 + RF3034DI)

PF3539MSNC6_P =[0.00040*RF3539 + 0.00032*RF3539(-1) − 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
$\quad$ - 0.00074*RF3539(-4) - 0.00066*RF3539(-5)
$\quad$ + 0.79025] / (1 + RF3539DI)

PF4044MSNC6_P = [0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
$\quad$ - 0.00176*RF4044(-4) - 0.00160*RF4044(-5)
$\quad$ + 0.81064] / (1 + RF4044DI)

FEMALE 20 TO 44, MARRIED, SPOUSE ABSENT, WITH AT LEAST ONE CHILD UNDER 6:
PF2024MAC6U_P =[- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
$\quad$ - 0.00075*RF2024(-4) - 0.00055*RF2024(-5)

$$+ 0.73283] / (1 + RF2024DI)$$

PF2529MAC6U_P = [0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
   - 0.00143*RF2529(-4) - 0.00121*RF2529(-5
   + 0.76433] / (1 + RF2529DI)

PF3034MAC6U_P = [0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
   - 0.00090*RF3034(-4) - 0.00087*RF3034(-5
   + 0.77183] / (1 + RF3034DI)

PF3539MAC6U_P = [0.00040*RF3539 + 0.00032*RF3539(-1) – 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
   - 0.00074*RF3539(-4) - 0.00066*RF3539(-5)
   + 0.77156] / (1 + RF3539DI)

PF4044MAC6U_P = [0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
   - 0.00176*RF4044(-4) - 0.00160*RF4044(-5)
   + 0.76058] / (1 + RF4044DI)

FEMALE 20 TO 44, MARRIED, SPOUSE ABSENT WITH NO CHILDREN UNDER 6:
PF2024MANC6_P = [- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
   - 0.00075*RF2024(-4) - 0.00055*RF2024(-5)
   - 0.00223 * TR_F2024
   + 0.97444] / (1 + RF2024DI)

PF2529MANC6_P = [0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
   - 0.00143*RF2529(-4) - 0.00121*RF2529(-5)
   + 0.00025 * TR_F2529
   + 0.79370] / (1 + RF2529DI)

PF3034MANC6_P = [0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
   - 0.00090*RF3034(-4) - 0.00087*RF3034(-5)
   + 0.83788] / (1 + RF3034DI)

PF3539MANC6_P = [0.00040*RF3539 + 0.00032*RF3539(-1) – 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
   - 0.00074*RF3539(-4) - 0.00066*RF3539(-5)
   + 0.84820] / (1 + RF3539DI)

PF4044MANC6_P = [0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
   - 0.00176*RF4044(-4) - 0.00160*RF4044(-5)
   + 0.85568] / (1 + RF4044DI)

PF2024NM_P = (PF2024NMC6U_P * NF2024NMC6U + PF2024NMNC6_P * NF2024NMNC6) / NF2024NM

PF2024MS_P = (PF2024MSC6U_P * NF2024MSC6U + PF2024MSNC6_P * NF2024MSNC6) / NF2024MS

PF2024MA_P = (PF2024MAC6U_P * NF2024MAC6U + PF2024MANC6_P * NF2024MANC6) / NF2024MA

PF2529NM_P = (PF2529NMC6U_P * NF2529NMC6U + PF2529NMNC6_P * NF2529NMNC6) / NF2529NM

PF2529MS_P = (PF2529MSC6U_P * NF2529MSC6U + PF2529MSNC6_P * NF2529MSNC6) / NF2529MS

PF2529MA_P = (PF2529MAC6U_P * NF2529MAC6U + PF2529MANC6_P * NF2529MANC6) / NF2529MA

PF3034NM_P = (PF3034NMC6U_P * NF3034NMC6U + PF3034NMNC6_P * NF3034NMNC6) / NF3034NM

PF3034MS_P = (PF3034MSC6U_P * NF3034MSC6U + PF3034MSNC6_P * NF3034MSNC6) / NF3034MS

PF3034MA_P = (PF3034MAC6U_P * NF3034MAC6U + PF3034MANC6_P * NF3034MANC6) / NF3034MA

PF3539NM_P = (PF3539NMC6U_P * NF3539NMC6U + PF3539NMNC6_P * NF3539NMNC6) / NF3539NM

PF3539MS_P = (PF3539MSC6U_P * NF3539MSC6U + PF3539MSNC6_P * NF3539MSNC6) / NF3539MS

PF3539MA_P = (PF3539MAC6U_P * NF3539MAC6U + PF3539MANC6_P * NF3539MANC6) / NF3539MA

PF4044NM_P = (PF4044NMC6U_P * NF4044NMC6U + PF4044NMNC6_P * NF4044NMNC6) / NF4044NM

PF4044MS_P = (PF4044MSC6U_P * NF4044MSC6U + PF4044MSNC6_P * NF4044MSNC6) / NF4044MS

PF4044MA_P = (PF4044MAC6U_P * NF4044MAC6U + PF4044MANC6_P * NF4044MANC6) / NF4044MA

FEMALE AGE 45 TO 54

FEMALE 45 TO 54, NEVER MARRIED:
PF4549NM_P = [0.00155*RF4549 + 0.00133*RF4549(-1) + 0.00007*RF4549(-2) - 0.00145*RF4549(-3)
                  - 0.00247*RF4549(-4) - 0.00224*RF4549(-5)
                  + 0.80950] / (1 + RF4549DI)

PF5054NM_P = [0.00093*RF5054 + 0.00074*RF5054(-1) – 0.00008*RF5054(-2) - 0.00104*RF5054(-3)
                  - 0.00168*RF5054(-4) - 0.00149*RF5054(-5)
                  + 0.78085] / (1 + RF5054DI)

FEMALE 45 TO 54, MARRIED, SPOUSE PRESENT:
PF4549MS_P = [0.00155*RF4549 + 0.00133*RF4549(-1) + 0.00007*RF4549(-2) - 0.00145*RF4549(-3)
                  - 0.00247*RF4549(-4) - 0.00224*RF4549(-5)
                  + 0.81276] / (1 + RF4549DI)

PF5054MS_P = [0.00093*RF5054 + 0.00074*RF5054(-1) – 0.00008*RF5054(-2) - 0.00104*RF5054(-3)
                  - 0.00168*RF5054(-4) - 0.00149*RF5054(-5)
                  + 0.48809
                  + 0.16476*EDSCOREF5054] / (1 + RF5054DI)

FEMALE 45 TO 54, MARRIED, SPOUSE ABSENT:
PF4549MA_P = [0.00155*RF4549 + 0.00133*RF4549(-1) + 0.00007*RF4549(-2) - 0.00145*RF4549(-3)
                  - 0.00247*RF4549(-4) - 0.00224*RF4549(-5)
                  + 0.84789] / (1 + RF4549DI)

PF5054MA_P = [0.00093*RF5054 + 0.00074*RF5054(-1) – 0.00008*RF5054(-2) - 0.00104*RF5054(-3)
                  - 0.00168*RF5054(-4) - 0.00149*RF5054(-5
                  + 0.81452] / (1 + RF5054DI)

FEMALE AGE 20 TO 54
PF2024_P = (PF2024NM_P * NF2024NM + PF2024MS_P * NF2024MS + PF2024MA_P * NF2024MA) / NF2024
PF2529_P = (PF2529NM_P * NF2529NM + PF2529MS_P * NF2529MS + PF2529MA_P * NF2529MA) / NF2529
PF3034_P = (PF3034NM_P * NF3034NM + PF3034MS_P * NF3034MS + PF3034MA_P * NF3034MA) / NF3034
PF3539_P = (PF3539NM_P * NF3539NM + PF3539MS_P * NF3539MS + PF3539MA_P * NF3539MA) / NF3539
PF4044_P = (PF4044NM_P * NF4044NM + PF4044MS_P * NF4044MS + PF4044MA_P * NF4044MA) / NF4044
PF4549_P = (PF4549NM_P * NF4549NM + PF4549MS_P * NF4549MS + PF4549MA_P * NF4549MA) / NF4549
PF5054_P = (PF5054NM_P * NF5054NM + PF5054MS_P * NF5054MS + PF5054MA_P * NF5054MA) / NF5054

PF2024 = PF2024_P
PF2529 = PF2529_P
PF3034 = PF3034_P
PF3539 = PF3539_P
PF4044 = PF4044_P
PF4549 = PF4549_P
PF5054 = PF5054_P

PF2024NM = PF2024NM_P * PF2024 / PF2024_P
PF2529NM = PF2529NM_P * PF2529 / PF2529_P
PF3034NM = PF3034NM_P * PF3034 / PF3034_P
PF3539NM = PF3539NM_P * PF3539 / PF3539_P

PF4044NM = PF4044NM_P * PF4044 / PF4044_P
PF4549NM = PF4549NM_P * PF4549 / PF4549_P
PF5054NM = PF5054NM_P * PF5054 / PF5054_P

PF2024MS = PF2024MS_P * PF2024 / PF2024_P
PF2529MS = PF2529MS_P * PF2529 / PF2529_P
PF3034MS = PF3034MS_P * PF3034 / PF3034_P
PF3539MS = PF3539MS_P * PF3539 / PF3539_P
PF4044MS = PF4044MS_P * PF4044 / PF4044_P
PF4549MS = PF4549MS_P * PF4549 / PF4549_P
PF5054MS = PF5054MS_P * PF5054 / PF5054_P

PF2024MA = PF2024MA_P * PF2024 / PF2024_P
PF2529MA = PF2529MA_P * PF2529 / PF2529_P
PF3034MA = PF3034MA_P * PF3034 / PF3034_P
PF3539MA = PF3539MA_P * PF3539 / PF3539_P
PF4044MA = PF4044MA_P * PF4044 / PF4044_P
PF4549MA = PF4549MA_P * PF4549 / PF4549_P
PF5054MA = PF5054MA_P * PF5054 / PF5054_P

PF2024NMC6U = PF2024NMC6U_P * PF2024 / PF2024_P
PF2529NMC6U = PF2529NMC6U_P * PF2529 / PF2529_P
PF3034NMC6U = PF3034NMC6U_P * PF3034 / PF3034_P
PF3539NMC6U = PF3539NMC6U_P * PF3539 / PF3539_P
PF4044NMC6U = PF4044NMC6U_P * PF4044 / PF4044_P

PF2024NMNC6 = PF2024NMNC6_P * PF2024 / PF2024_P
PF2529NMNC6 = PF2529NMNC6_P * PF2529 / PF2529_P
PF3034NMNC6 = PF3034NMNC6_P * PF3034 / PF3034_P
PF3539NMNC6 = PF3539NMNC6_P * PF3539 / PF3539_P
PF4044NMNC6 = PF4044NMNC6_P * PF4044 / PF4044_P

PF2024MSC6U = PF2024MSC6U_P * PF2024 / PF2024_P
PF2529MSC6U = PF2529MSC6U_P * PF2529 / PF2529_P
PF3034MSC6U = PF3034MSC6U_P * PF3034 / PF3034_P
PF3539MSC6U = PF3539MSC6U_P * PF3539 / PF3539_P
PF4044MSC6U = PF4044MSC6U_P * PF4044 / PF4044_P

PF2024MSNC6 = PF2024MSNC6_P * PF2024 / PF2024_P
PF2529MSNC6 = PF2529MSNC6_P * PF2529 / PF2529_P
PF3034MSNC6 = PF3034MSNC6_P * PF3034 / PF3034_P
PF3539MSNC6 = PF3539MSNC6_P * PF3539 / PF3539_P
PF4044MSNC6 = PF4044MSNC6_P * PF4044 / PF4044_P

PF2024MAC6U = PF2024MAC6U_P * PF2024 / PF2024_P
PF2529MAC6U = PF2529MAC6U_P * PF2529 / PF2529_P
PF3034MAC6U = PF3034MAC6U_P * PF3034 / PF3034_P
PF3539MAC6U = PF3539MAC6U_P * PF3539 / PF3539_P
PF4044MAC6U = PF4044MAC6U_P * PF4044 / PF4044_P

PF2024MANC6 = PF2024MANC6_P * PF2024 / PF2024_P
PF2529MANC6 = PF2529MANC6_P * PF2529 / PF2529_P
PF3034MANC6 = PF3034MANC6_P * PF3034 / PF3034_P
PF3539MANC6 = PF3539MANC6_P * PF3539 / PF3539_P
PF4044MANC6 = PF4044MANC6_P * PF4044 / PF4044_P

FEMALE 55 TO 74
PF55_P = [0.18398*EDSCOREF55 + 0.24605*MSSHARE_F55 + 0.26185] / (1 + RF55DI)

PF56_P = [0.20704*EDSCOREF56 - 0.12398*MSSHARE_F56 + 0.4493] / (1 + RF56DI)

PF57_P = [0.18422*EDSCOREF57 - 0.08766*MSSHARE_F57 + 0.45094] / (1 + RF57DI)

PF58_P = [0.19406*EDSCOREF58 - 0.06963*MSSHARE_F58 + 0.40382] / (1 + RF58DI)

PF59_P = [0.21112*EDSCOREF59 + 0.10742*MSSHARE_F59 + 0.24105] / (1 + RF59DI)

PF60_P = [0.20633*EDSCOREF60 - 0.41539*MSSHARE_F60 + 0.54178] / (1 + RF60DI)

PF61_P = [0.19349*EDSCOREF61 - 0.66676*MSSHARE_F61 + 0.68556] / (1 + RF61DI)

PF62_P = [- 0.5100*RRADJ_F62 - 0.02*POT_ET_TXRT_62
        + 0.21249*EDSCOREF62 + 0.01966*MSSHARE_F62 + 0.32876] / (1 + RF62DI)

PF63_P = [- 0.4675*RRADJ_F63 - 0.02*POT_ET_TXRT_63
        + 0.21116*EDSCOREF63 + 0.02896*MSSHARE_F63 + 0.26792] / (1 + RF63DI)

PF64_P = [- 0.4250*RRADJ_F64 - 0.02*POT_ET_TXRT_64
        + 0.20467*EDSCOREF64 - 0.32725*MSSHARE_F64 + 0.44786] / (1 + RF64DI)

PF65_P = [- 0.3825*RRADJ_F65 - 0.02*POT_ET_TXRT_65
        + 0.20002*EDSCOREF65 - 0.05830*MSSHARE_F65 + 0.22187] / (1 + RF65DI)

PF66_P = [- 0.3400*RRADJ_F66 - 0.02*POT_ET_TXRT_66
        + 0.17479*EDSCOREF66 + 0.22954*MSSHARE_F66 + 0.04361] / (1 + RF66DI)

PF67_P = [- 0.2975*RRADJ_F67 - 0.02*POT_ET_TXRT_67
        + 0.17673*EDSCOREF67 - 0.43942*MSSHARE_F67 + 0.38490] / (1 + RF67DI)

PF68_P = [- 0.2550*RRADJ_F68 - 0.02*POT_ET_TXRT_68
        + 0.15513*EDSCOREF68 + 0.35232*MSSHARE_F68 - 0.07497] / (1 + RF68DI)

PF69_P = [- 0.2550*RRADJ_F69 - 0.02*POT_ET_TXRT_69
        + 0.11603*EDSCOREF69 + 0.87528*MSSHARE_F69 - 0.32696] / (1 + RF69DI)

PF70_P = [0.09629*EDSCOREF70 + 0.54302*MSSHARE_F70 - 0.25141] / (1 + RF70DI)

PF71_P = [0.11053*EDSCOREF71 + 0.16137*MSSHARE_F71 - 0.08070] / (1 + RF71DI)

PF72_P = [0.09151*EDSCOREF72 + 0.25854*MSSHARE_F72 - 0.11711] / (1 + RF72DI)

PF73_P = [0.08611*EDSCOREF73 + 0.28099*MSSHARE_F73 - 0.12804] / (1 + RF73DI)

PF74_P = [0.11821*EDSCOREF74 - 0.01277*MSSHARE_F74 - 0.04121] / (1 + RF74DI)

FEMALE, AGES 75 TO 79
PF75_P = PF74(-4) * 0.9

PF76_P = PF75(-4) * 0.9

PF77_P = PF76(-4) * 0.9

PF78_P = PF77(-4) * 0.9

PF79_P = PF78(-4) * 0.9

FEMALE AGE 55 TO 79
PF55 = PF55_P

PF56 = PF56_P

PF57 = PF57_P

PF58 = PF58_P

PF59 = PF59_P

PF60 = PF60_P

PF61 = PF61_P

PF62 = PF62_P

PF63 = PF63_P

PF64 = PF64_P

PF65 = PF65_P

PF66 = PF66_P

PF67 = PF67_P

PF68 = PF68_P

PF69 = PF69_P

PF70 = PF70_P

PF71 = PF71_P

PF72 = PF72_P

PF73 = PF73_P

PF74 = PF74_P

PF75 = PF75_P

PF76 = PF76_P

PF77 = PF77_P

PF78 = PF78_P

PF79 = PF79_P

FEMALE, AGES 80 AND OVER

$PF80\_P = PF79(-4) * 0.965 \char94 1$

$PF81\_P = PF79(-8) * 0.965 \char94 2$

$PF82\_P = PF79(-12) * 0.965 \char94 3$

$PF83\_P = PF79(-16) * 0.965 \char94 4$

$PF84\_P = PF79(-20) * 0.965 \char94 5$

$PF85\_P = MOVAVG(8,PF79(-24)) * 0.965 \char94 6$

$PF86\_P = MOVAVG(8,PF79(-28)) * 0.965 \char94 7$

$PF87\_P = MOVAVG(8,PF79(-32)) * 0.965 \char94 8$

$PF88\_P = MOVAVG(8,PF79(-36)) * 0.965 \char94 9$

$PF89\_P = MOVAVG(8,PF79(-40)) * 0.965 \char94 10$

$PF90\_P = MOVAVG(8,PF79(-44)) * 0.965 \char94 11$

$PF91\_P = MOVAVG(8,PF79(-48)) * 0.965 \char94 12$

$PF92\_P = MOVAVG(8,PF79(-52)) * 0.965 \char94 13$

$PF93\_P = MOVAVG(8,PF79(-56)) * 0.965 \char94 14$

$PF94\_P = MOVAVG(8,PF79(-60)) * 0.965 \char94 15$

PF95_P = PF94_P * 0.965

PF96_P = PF95_P * 0.965

PF97_P = PF96_P * 0.965

PF98_P = PF97_P * 0.965

PF99_P = PF98_P * 0.965

PF100_P = PF99_P * 0.965

PF80O_P = (PF80_P*NF80 + PF81_P*NF81 + PF82_P*NF82 + PF83_P*NF83 + PF84_P*NF84
       + PF85_P*NF85 + PF86_P*NF86 + PF87_P*NF87 + PF88_P*NF88 + PF89_P*NF89
       + PF90_P*NF90 + PF91_P*NF91 + PF92_P*NF92 + PF93_P*NF93 + PF94_P*NF94
       + PF95_P*NF95 + PF96_P*NF96 + PF97_P*NF97 + PF98_P*NF98 + PF99_P*NF99
       + PF100_P*NF100) / NF80O

PF80O = PF80O_P

PF80 = PF80_P * PF80O / PF80O_P

PF81 = PF81_P * PF80O / PF80O_P

PF82 = PF82_P * PF80O / PF80O_P

PF83 = PF83_P * PF80O / PF80O_P

PF84 = PF84_P * PF80O / PF80O_P

PF85 = PF85_P * PF80O / PF80O_P

PF86 = PF86_P * PF80O / PF80O_P

PF87 = PF87_P * PF80O / PF80O_P

PF88 = PF88_P * PF80O / PF80O_P

PF89 = PF89_P * PF80O / PF80O_P

PF90 = PF90_P * PF80O / PF80O_P

PF91 = PF91_P * PF80O / PF80O_P

PF92 = PF92_P * PF80O / PF80O_P

PF93 = PF93_P * PF80O / PF80O_P

PF94 = PF94_P * PF80O / PF80O_P

PF95 = PF95_P * PF80O / PF80O_P

PF96 = PF96_P * PF80O / PF80O_P

PF97 = PF97_P * PF80O / PF80O_P

PF98 = PF98_P * PF80O / PF80O_P

PF99 = PF99_P * PF80O / PF80O_P

PF100 = PF100_P * PF80O / PF80O_P

LFPR EQUATIONS, AGE 16 AND OVER

PM16O_P= (PM1617_P * NM1617 +
      PM1819_P * NM1819 +
      PM2024_P * NM2024 +
      PM2529_P * NM2529 +
      PM3034_P * NM3034 +
      PM3539_P * NM3539 +
      PM4044_P * NM4044 +
      PM4549_P * NM4549 +
      PM5054_P * NM5054 +

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PM55_P * NM55 +
PM56_P * NM56 +
PM57_P * NM57 +
PM58_P * NM58 +
PM59_P * NM59 +
PM60_P * NM60 +
PM61_P * NM61 +
PM62_P * NM62 +
PM63_P * NM63 +
PM64_P * NM64 +
PM65_P * NM65 +
PM66_P * NM66 +
PM67_P * NM67 +
PM68_P * NM68 +
PM69_P * NM69 +
PM70_P * NM70 +
PM71_P * NM71 +
PM72_P * NM72 +
PM73_P * NM73 +
PM74_P * NM74 +
PM75_P * NM75 +
PM76_P * NM76 +
PM77_P * NM77 +
PM78_P * NM78 +
PM79_P * NM79 +
PM80O_P * NM80O ) / NM16O


PF16O_P= (PF1617_P * NF1617 +
PF1819_P * NF1819 +
PF2024_P * NF2024 +
PF2529_P * NF2529 +
PF3034_P * NF3034 +
PF3539_P * NF3539 +
PF4044_P * NF4044 +
PF4549_P * NF4549 +
PF5054_P * NF5054 +
PF55_P * NF55 +
PF56_P * NF56 +
PF57_P * NF57 +
PF58_P * NF58 +
PF59_P * NF59 +
PF60_P * NF60 +
PF61_P * NF61 +
PF62_P * NF62 +
PF63_P * NF63 +
PF64_P * NF64 +
PF65_P * NF65 +
PF66_P * NF66 +
PF67_P * NF67 +
PF68_P * NF68 +
PF69_P * NF69 +
PF70_P * NF70 +
PF71_P * NF71 +
PF72_P * NF72 +
PF73_P * NF73 +
PF74_P * NF74 +
PF75_P * NF75 +
PF76_P * NF76 +
PF77_P * NF77 +
PF78_P * NF78 +
PF79_P * NF79 +
PF80O_P * NF80O ) / NF16O
```

P16O_P = (PM16O_P * NM16O + PF16O_P * NF16O) / (NM16O + NF16O)

LABOR FORCE, AGE 16 AND OVER
LCM_P = PM16O_P * NM16O
LCF_P = PF16O_P * NF16O
LC_P = LCM_P + LCF_P

LABOR FORCE PARTICIPATION RATES, FULL EMPLOYMENT

MALE
DPM1617_FE = (- 0.00134*RM1617_FE - 0.00167*RM1617_FE(-1) - 0.00132*RM1617_FE(-2)
   - 0.00065*RM1617_FE(-3) + 0.00003*RM1617_FE(-4) + 0.00035*RM1617_FE(-5)) –
   (- 0.00134*RM1617 - 0.00167*RM1617(-1) - 0.00132*RM1617(-2) - 0.00065*RM1617(-3)
   + 0.00003*RM1617(-4) + 0.00035*RM1617(-5))

DPM1819_FE =   (- 0.00068*RM1819_FE - 0.00092*RM1819_FE(-1) - 0.00083*RM1819_FE(-2)
   - 0.00056*RM1819_FE(-3) - 0.00025*RM1819_FE(-4) – 0.00002*RM1819_FE(-5)) –
   (- 0.00068*RM1819 - 0.00092*RM1819(-1) - 0.00083*RM1819(-2) - 0.00056*RM1819(-3)
   - 0.00025*RM1819(-4) – 0.00002*RM1819(-5))

DPM2024_FE = (- 0.00053*RM2024_FE - 0.00074*RM2024_FE(-1) - 0.00071*RM2024_FE(-2)
   - 0.00054*RM2024_FE(-3) - 0.00030*RM2024_FE(-4) – 0.00010*RM2024_FE(-5)) –
   (- 0.00053*RM2024 - 0.00074*RM2024(-1) - 0.00071*RM2024(-2) - 0.00054*RM2024(-3)
   - 0.00030*RM2024(-4) – 0.00010*RM2024(-5))

DPM2529_FE = (- 0.00031*RM2529_FE - 0.00053*RM2529_FE(-1) - 0.00066*RM2529_FE(-2)
   - 0.00068*RM2529_FE(-3) - 0.00058*RM2529_FE(-4) - 0.00036*RM2529_FE(-5)) –
   (- 0.00031*RM2529 - 0.00053*RM2529(-1) - 0.00066*RM2529(-2) - 0.00068*RM2529(-3)
   - 0.00058*RM2529(-4) - 0.00036*RM2529(-5))

DPM3034_FE = (- 0.00001*RM3034_FE - 0.00018*RM3034_FE(-1) - 0.00040*RM3034_FE(-2)
   - 0.00058*RM3034_FE(-3) - 0.00064*RM3034_FE(-4) - 0.00047*RM3034_FE(-5)) –
   (- 0.00001*RM3034 - 0.00018*RM3034(-1) - 0.00040*RM3034(-2) - 0.00058*RM3034(-3)
   - 0.00064*RM3034(-4) - 0.00047*RM3034(-5))

DPM3539_FE =   (0.00048*RM3539_FE + 0.00037*RM3539_FE(-1) – 0.00007*RM3539_FE(-2)
   - 0.00058*RM3539_FE(-3) - 0.00091*RM3539_FE(-4) - 0.00080*RM3539_FE(-5)) –
   (0.00048*RM3539 + 0.00037*RM3539(-1) – 0.00007*RM3539(-2) - 0.00058*RM3539(-3)
   - 0.00091*RM3539(-4) - 0.00080*RM3539(-5))

DPM4044_FE = (- 0.00018*RM4044_FE - 0.00026*RM4044_FE(-1) - 0.00027*RM4044_FE(-2)
   - 0.00022*RM4044_FE(-3) - 0.00014*RM4044_FE(-4) – 0.00006*RM4044_FE(-5)) –
   (- 0.00018*RM4044 - 0.00026*RM4044(-1) - 0.00027*RM4044(-2) - 0.00022*RM4044(-3)
   - 0.00014*RM4044(-4) – 0.00006*RM4044(-5))

DPM4549_FE =   (0.00004*RM4549_FE - 0.00011*RM4549_FE(-1) - 0.00036*RM4549_FE(-2)
   - 0.00059*RM4549_FE(-3) - 0.00068*RM4549_FE(-4) - 0.00052*RM4549_FE(-5)) –
   (0.00004*RM4549 - 0.00011*RM4549(-1) - 0.00036*RM4549(-2) - 0.00059*RM4549(-3)
   - 0.00068*RM4549(-4) - 0.00052*RM4549(-5))

DPM5054_FE =   (0.00115*RM5054_FE + 0.00089*RM5054_FE(-1) - 0.00017*RM5054_FE(-2)
   - 0.00141*RM5054_FE(-3) - 0.00220*RM5054_FE(-4) - 0.00194*RM5054_FE(-5)) –
   (0.00115*RM5054 + 0.00089*RM5054(-1) - 0.00017*RM5054(-2) - 0.00141*RM5054(-3)
   - 0.00220*RM5054(-4) - 0.00194*RM5054(-5))

FEMALE
DPF1617_FE = (- 0.00214*RF1617_FE - 0.00256*RF1617_FE(-1) - 0.00184*RF1617_FE(-2)
   - 0.00062*RF1617_FE(-3) + 0.00050*RF1617_FE(-4) + 0.00091*RF1617_FE(-5)) –

$$(- 0.00214*RF1617 - 0.00256*RF1617(-1) - 0.00184*RF1617(-2) - 0.00062*RF1617(-3)$$
$$+ 0.00050*RF1617(-4) + 0.00091*RF1617(-5))$$

DPF1819_FE = (- 0.00118*RF1819_FE - 0.00145*RF1819_FE(-1) - 0.00112*RF1819_FE(-2)
 - 0.00050*RF1819_FE(-3) + 0.00010*RF1819_FE(-4) + 0.00037*RF1819_FE(-5)) –
 (- 0.00118*RF1819 - 0.00145*RF1819(-1) - 0.00112*RF1819(-2) - 0.00050*RF1819(-3)
 + 0.00010*RF1819(-4) + 0.00037*RF1819(-5))

DPF2024_FE = (- 0.00006*RF2024_FE - 0.00026*RF2024_FE(-1) - 0.00050*RF2024_FE(-2)
 - 0.00070*RF2024_FE(-3) - 0.00075*RF2024_FE(-4) - 0.00055*RF2024_FE(-5)) –
 (- 0.00006*RF2024 - 0.00026*RF2024(-1) - 0.00050*RF2024(-2) - 0.00070*RF2024(-3)
 - 0.00075*RF2024(-4) - 0.00055*RF2024(-5))

DPF2529_FE = (0.00056*RF2529_FE + 0.00034*RF2529_FE(-1) - 0.00030*RF2529_FE(-2)
 - 0.00101*RF2529_FE(-3) - 0.00143*RF2529_FE(-4) - 0.00121*RF2529_FE(-5)) –
 (0.00056*RF2529 + 0.00034*RF2529(-1) - 0.00030*RF2529(-2) - 0.00101*RF2529(-3)
 - 0.00143*RF2529(-4) - 0.00121*RF2529(-5))

DPF3034_FE = (0.00078*RF3034_FE + 0.00075*RF3034_FE(-1) + 0.00024*RF3034_FE(-2)
 - 0.00042*RF3034_FE(-3) - 0.00090*RF3034_FE(-4) - 0.00087*RF3034_FE(-5)) –
 (0.00078*RF3034 + 0.00075*RF3034(-1) + 0.00024*RF3034(-2) - 0.00042*RF3034(-3)
 - 0.00090*RF3034(-4) - 0.00087*RF3034(-5))

DPF3539_FE = (0.00040*RF3539_FE + 0.00032*RF3539_FE(-1) – 0.00004*RF3539_FE(-2)
 - 0.00046*RF3539_FE(-3) - 0.00074*RF3539_FE(-4) - 0.00066*RF3539_FE(-5)) –
 (0.00040*RF3539 + 0.00032*RF3539(-1) – 0.00004*RF3539(-2) - 0.00046*RF3539(-3)
 - 0.00074*RF3539(-4) - 0.00066*RF3539(-5))

DPF4044_FE = (0.00113*RF4044_FE + 0.00097*RF4044_FE(-1) + 0.00007*RF4044_FE(-2)
 - 0.00102*RF4044_FE(-3) - 0.00176*RF4044_FE(-4) - 0.00160*RF4044_FE(-5)) –
 (0.00113*RF4044 + 0.00097*RF4044(-1) + 0.00007*RF4044(-2) - 0.00102*RF4044(-3)
 - 0.00176*RF4044(-4) - 0.00160*RF4044(-5))

DPF4549_FE = (0.00155*RF4549_FE + 0.00133*RF4549_FE(-1) + 0.00007*RF4549_FE(-2)
 - 0.00145*RF4549_FE(-3) - 0.00247*RF4549_FE(-4) - 0.00224*RF4549_FE(-5)) –
 (0.00155*RF4549 + 0.00133*RF4549(-1) + 0.00007*RF4549(-2) - 0.00145*RF4549(-3)
 - 0.00247*RF4549(-4) - 0.00224*RF4549(-5))

DPF5054_FE = (0.00093*RF5054_FE + 0.00074*RF5054_FE(-1) – 0.00008*RF5054_FE(-2)
 - 0.00104*RF5054_FE(-3) - 0.00168*RF5054_FE(-4) - 0.00149*RF5054_FE(-5)) –
 (0.00093*RF5054 + 0.00074*RF5054(-1) – 0.00008*RF5054(-2) - 0.00104*RF5054(-3)
 - 0.00168*RF5054(-4) - 0.00149*RF5054(-5))