

The model has 44 (832) variables (array expansion in parens).

Stocks: 4 (108) Flows: 4 (108) Converters: 36 (616)

Constants: 12 (92) Equations: 28 (632) Graphicals: 7 (139)

There are also 135 expanded macro variables.

Top-Level Model:

$$\begin{aligned} \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income]}(t) = \\ \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income]}(t - dt) + \\ (\text{adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, One_Child, Low_Income]}) * dt \end{aligned}$$
$$\begin{aligned} \text{INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income]} = \\ \text{INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, One_Child]} \end{aligned}$$

UNITS: Hours

$$\begin{aligned} \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income]}(t) = \\ \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income]}(t - dt) + \\ (\text{adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, One_Child, Medium_Income]}) * dt \end{aligned}$$
$$\begin{aligned} \text{INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income]} = \\ \text{INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, One_Child]} \end{aligned}$$

UNITS: Hours

$$\begin{aligned} \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income]}(t) = \\ \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income]}(t - dt) + \\ (\text{adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, One_Child, High_Income]}) * dt \end{aligned}$$
$$\begin{aligned} \text{INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income]} = \\ \text{INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, One_Child]} \end{aligned}$$

UNITS: Hours

$$\begin{aligned} \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income]}(t) = \\ \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income]}(t - dt) + \\ (\text{adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, Two_Children, Low_Income]}) * dt \end{aligned}$$
$$\begin{aligned} \text{INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income]} = \\ \text{INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, Two_Children]} \end{aligned}$$

UNITS: Hours

$$\begin{aligned} \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income]}(t) = \\ \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income]}(t - dt) + \\ (\text{adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, Two_Children, Medium_Income]}) * dt \end{aligned}$$
$$\begin{aligned} \text{INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income]} = \\ \text{INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, Two_Children]} \end{aligned}$$

UNITS: Hours

$$\begin{aligned} \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income]}(t) = \\ \text{Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income]}(t - dt) + \\ (\text{adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, Two_Children, High_Income]}) * dt \end{aligned}$$
$$\begin{aligned} \text{INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income]} = \\ \text{INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, Two_Children]} \end{aligned}$$

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, Three_Children, Low_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, Three_Children, Medium_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[sixteen_to_twentyfive, Three_Children, High_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twentsix_to_thirtyfive, One_Child, Low_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Low_Income, One_Child]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twentsix_to_thirtyfive, One_Child, Medium_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Medium_Income, One_Child]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twentsix_to_thirtyfive, One_Child, High_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, One_Child, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, High_Income, One_Child]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Two_Children, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Two_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twentsix_to_thirtyfive, Two_Children, Low_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Two_Children, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Low_Income, Two_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Two_Children, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twentsix_to_thirtyfive, Two_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twentsix_to_thirtyfive, Two_Children, Medium_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Two_Children, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Medium_Income, Two_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Two_Children, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Two_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twenty-six_to_thirty-five, Two_Children, High_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Two_Children, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, High_Income, Two_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twenty-six_to_thirty-five, Three_Children, Low_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Low_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twenty-six_to_thirty-five, Three_Children, Medium_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Medium_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[twenty-six_to_thirty-five, Three_Children, High_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Three_Children, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, High_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirty-six_to_forty-five, One_Child, Low_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Low_Income, One_Child]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirty-six_to_forty-five, One_Child, Medium_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Medium_Income, One_Child]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirty-six_to_forty-five, One_Child, High_Income]) * dt

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, One_Child, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, High_Income, One_Child]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirtysix_to_fourtyfive, Two_Children, Low_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Two_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirtysix_to_fourtyfive, Two_Children, Medium_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Two_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirtysix_to_fourtyfive, Two_Children, High_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, High_Income, Two_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirtysix_to_fourtyfive, Three_Children, Low_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirtysix_to_fourtyfive, Three_Children, Medium_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Three_Children]

UNITS: Hours

Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income](t) =
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_CC_hours[thirtysix_to_fourtyfive, Three_Children, High_Income]) * dt

INIT Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income] =
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, High_Income, Three_Children]

UNITS: Hours

UNITS: Hours

INFLOWS:

adjustment_of_grandmothers_CC_hours[Age_Group, Number_of_Children_under_School_age, Income_Level] =
(grandmothers_available_CC_hours-Actual_CC_Hours_Covered_by_Grandmothers)/time_to_adj_CC_hours_covered_by_grandmothers

UNITS: Hours/Years

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, One_Child, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Low_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, One_Child, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Medium_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, One_Child, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, High_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, Two_Children, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Low_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, Two_Children, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Medium_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, Two_Children, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, High_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, Three_Children, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Low_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, Three_Children, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Medium_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income](t) =
Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[sixteen_to_twentyfive, Three_Children, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income] =
INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, High_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, Low_Income](t) =
Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentyfive_to_thirtyfive, One_Child, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Low_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, Medium_Income](t) =
Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentyfive_to_thirtyfive, One_Child, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Medium_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, High_Income](t) =
Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentyfive_to_thirtyfive, One_Child, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, One_Child, High_Income] =
INIT_Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, High_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, Low_Income](t) =
Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentyfive_to_thirtyfive, Two_Children, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Low_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, Medium_Income](t) =
Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentyfive_to_thirtyfive, Two_Children, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Medium_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, High_Income](t) =
Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentyfive_to_thirtyfive, Two_Children, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, Two_Children, High_Income] =
INIT_Average_Work_Participation_Grandmothers[twentyfive_to_thirtyfive, High_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, Low_Income](t) =
Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentysix_to_thirtyfive, Three_Children, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Low_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, Medium_Income](t) =
Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentysix_to_thirtyfive, Three_Children, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Medium_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, High_Income](t) =
Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[twentysix_to_thirtyfive, Three_Children, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, Three_Children, High_Income] =
INIT_Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, High_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, Low_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, One_Child, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Low_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, Medium_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, One_Child, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, High_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, One_Child, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, One_Child, High_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, High_Income, One_Child]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, Two_Children, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, Two_Children, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, Two_Children, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, High_Income, Two_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, Three_Children, Low_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, Three_Children, Medium_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Three_Children]

UNITS: Hours

Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income](t) =
Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income](t - dt) +
(adjustment_of_grandmothers_work_participation[thirtysix_to_fourtyfive, Three_Children, High_Income]) * dt

INIT Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income] =
INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, High_Income, Three_Children]

UNITS: Hours

UNITS: Hours

INFLOWS:

adjustment_of_grandmothers_work_participation[Age_Group, Number_of_Children_under_School_age, Income_Level] =
(work_participation_grandmothers-Average_Work_Participation_Grandmothers)/time_to_adj_work_participation_grandmothers

UNITS: Hours/Years

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, Low_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, Low_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, One_Child, Low_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, Low_Income] = INIT_avg_WP_mothers[sixteen_to_twentyfive,
Low_Income, One_Child]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, Medium_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, Medium_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, One_Child, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, Medium_Income] = INIT_avg_WP_mothers[sixteen_to_twentyfive, Medium_Income, One_Child]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, High_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, High_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, One_Child, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, One_Child, High_Income] = INIT_avg_WP_mothers[sixteen_to_twentyfive, High_Income, One_Child]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, Low_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, Low_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, Two_Children, Low_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, Low_Income] = INIT_avg_WP_mothers[sixteen_to_twentyfive, Low_Income, Two_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, Medium_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, Medium_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, Two_Children, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, Medium_Income] =
INIT_avg_WP_mothers[sixteen_to_twentyfive, Medium_Income, Two_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, High_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, High_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, Two_Children, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Two_Children, High_Income] = INIT_avg_WP_mothers[sixteen_to_twentyfive, High_Income, Two_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, Low_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, Low_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, Three_Children, Low_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, Low_Income] =
INIT_avg_WP_mothers[sixteen_to_twentyfive, Low_Income, Three_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, Medium_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, Medium_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, Three_Children, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, Medium_Income] =
INIT_avg_WP_mothers[sixteen_to_twentyfive, Medium_Income, Three_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, High_Income](t) =
Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, High_Income](t - dt) +
(avg_work_participation_adjustment[sixteen_to_twentyfive, Three_Children, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[sixteen_to_twentyfive, Three_Children, High_Income] =
INIT_avg_WP_mothers[sixteen_to_twentyfive, High_Income, Three_Children]

Avg_Work_Participation_Mothers[twentysix_to_thirtyfive, Three_Children, Medium_Income](t) =
Avg_Work_Participation_Mothers[twentysix_to_thirtyfive, Three_Children, Medium_Income](t - dt) +
(avg_work_participation_adjustment[twentysix_to_thirtyfive, Three_Children, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[twentysix_to_thirtyfive, Three_Children, Medium_Income] =
INIT_avg_WP_mothers[twentysix_to_thirtyfive, Medium_Income, Three_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[twentysix_to_thirtyfive, Three_Children, High_Income](t) =
Avg_Work_Participation_Mothers[twentysix_to_thirtyfive, Three_Children, High_Income](t - dt) +
(avg_work_participation_adjustment[twentysix_to_thirtyfive, Three_Children, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[twentysix_to_thirtyfive, Three_Children, High_Income] =
INIT_avg_WP_mothers[twentysix_to_thirtyfive, High_Income, Three_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, Low_Income](t) =
Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, Low_Income](t - dt) +
(avg_work_participation_adjustment[thirtysix_to_fourtyfive, One_Child, Low_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, Low_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive,
Low_Income, One_Child]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, Medium_Income](t) =
Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, Medium_Income](t - dt) +
(avg_work_participation_adjustment[thirtysix_to_fourtyfive, One_Child, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, Medium_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive,
Medium_Income, One_Child]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, High_Income](t) =
Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, High_Income](t - dt) +
(avg_work_participation_adjustment[thirtysix_to_fourtyfive, One_Child, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, One_Child, High_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive,
High_Income, One_Child]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, Low_Income](t) =
Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, Low_Income](t - dt) +
(avg_work_participation_adjustment[thirtysix_to_fourtyfive, Two_Children, Low_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, Low_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive,
Low_Income, Two_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t) =
Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t - dt) +
(avg_work_participation_adjustment[thirtysix_to_fourtyfive, Two_Children, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income] =
INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Medium_Income, Two_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, High_Income](t) =
Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, High_Income](t - dt) +
(avg_work_participation_adjustment[thirtysix_to_fourtyfive, Two_Children, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Two_Children, High_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive, High_Income, Two_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, Low_Income](t) = Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, Low_Income](t - dt) + (avg_work_participation_adjustment[thirtysix_to_fourtyfive, Three_Children, Low_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, Low_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Low_Income, Three_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t) = Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t - dt) + (avg_work_participation_adjustment[thirtysix_to_fourtyfive, Three_Children, Medium_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Medium_Income, Three_Children]

UNITS: Hours

Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, High_Income](t) = Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, High_Income](t - dt) + (avg_work_participation_adjustment[thirtysix_to_fourtyfive, Three_Children, High_Income]) * dt

INIT Avg_Work_Participation_Mothers[thirtysix_to_fourtyfive, Three_Children, High_Income] = INIT_avg_WP_mothers[thirtysix_to_fourtyfive, High_Income, Three_Children]

UNITS: Hours

UNITS: Hours

INFLOWS:

avg_work_participation_adjustment[Age_Group, Number_of_Children_under_School_age, Income_Level] = (work_participation - Avg_Work_Participation_Mothers)/time_to_adj_work_participation

UNITS: Hours/Years

Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Low_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Low_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, One_Child, Low_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Low_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Low_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Medium_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Medium_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, One_Child, Medium_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Medium_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Medium_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, High_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, High_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, One_Child, High_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, High_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, High_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Low_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Low_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, Two_Children, Low_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Low_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Low_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Medium_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Medium_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, Two_Children, Medium_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Medium_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Medium_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, High_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, High_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, Two_Children, High_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, High_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, High_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Low_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Low_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, Three_Children, Low_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Low_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Low_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Medium_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Medium_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, Three_Children, Medium_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Medium_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Medium_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, High_Income](t) = Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, High_Income](t - dt) + (chng_in_SF_hours[sixteen_to_twentyfive, Three_Children, High_Income]) * dt

INIT Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, High_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, High_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Low_Income](t) = Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Low_Income](t - dt) + (chng_in_SF_hours[twentysix_to_thirtyfive, One_Child, Low_Income]) * dt

INIT Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Low_Income] = INIT_Hours_to_Self_Finance[twentysix_to_thirtyfive, Low_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Medium_Income](t) = Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Medium_Income](t - dt) + (chng_in_SF_hours[twentysix_to_thirtyfive, One_Child, Medium_Income]) * dt

INIT Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Medium_Income] = INIT_Hours_to_Self_Finance[twentysix_to_thirtyfive, Medium_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, High_Income](t) = Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, High_Income](t - dt) + (chng_in_SF_hours[twentysix_to_thirtyfive, One_Child, High_Income]) * dt

INIT Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, High_Income] = INIT_Hours_to_Self_Finance[twentysix_to_thirtyfive, High_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, Low_Income](t) = Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, Low_Income](t - dt) + (chng_in_SF_hours[twenty-six_to_thirty-five, Two_Children, Low_Income]) * dt

INIT Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, Low_Income] = INIT_Hours_to_Self_Finance[sixteen_to_twenty-five, Low_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, Medium_Income](t) = Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, Medium_Income](t - dt) + (chng_in_SF_hours[twenty-six_to_thirty-five, Two_Children, Medium_Income]) * dt

INIT Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, Medium_Income] = INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Medium_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, High_Income](t) = Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, High_Income](t - dt) + (chng_in_SF_hours[twenty-six_to_thirty-five, Two_Children, High_Income]) * dt

INIT Hours_to_Self_Finance[twenty-six_to_thirty-five, Two_Children, High_Income] = INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, High_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, Low_Income](t) = Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, Low_Income](t - dt) + (chng_in_SF_hours[twenty-six_to_thirty-five, Three_Children, Low_Income]) * dt

INIT Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, Low_Income] = INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Low_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, Medium_Income](t) = Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, Medium_Income](t - dt) + (chng_in_SF_hours[twenty-six_to_thirty-five, Three_Children, Medium_Income]) * dt

INIT Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, Medium_Income] = INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Medium_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, High_Income](t) = Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, High_Income](t - dt) + (chng_in_SF_hours[twenty-six_to_thirty-five, Three_Children, High_Income]) * dt

INIT Hours_to_Self_Finance[twenty-six_to_thirty-five, Three_Children, High_Income] = INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, High_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[thirty-six_to_forty-five, One_Child, Low_Income](t) = Hours_to_Self_Finance[thirty-six_to_forty-five, One_Child, Low_Income](t - dt) + (chng_in_SF_hours[thirty-six_to_forty-five, One_Child, Low_Income]) * dt

INIT Hours_to_Self_Finance[thirty-six_to_forty-five, One_Child, Low_Income] = INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Low_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[thirty-six_to_forty-five, One_Child, Medium_Income](t) = Hours_to_Self_Finance[thirty-six_to_forty-five, One_Child, Medium_Income](t - dt) + (chng_in_SF_hours[thirty-six_to_forty-five, One_Child, Medium_Income]) * dt

INIT Hours_to_Self_Finance[thirty-six_to_forty-five, One_Child, Medium_Income] = INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Medium_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, High_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, High_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, One_Child, High_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, High_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, High_Income, One_Child]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Low_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Low_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, Two_Children, Low_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Low_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, Low_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Medium_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, Two_Children, Medium_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Medium_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, Medium_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, High_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, High_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, Two_Children, High_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, High_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, High_Income, Two_Children]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Low_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Low_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, Three_Children, Low_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Low_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, Low_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Medium_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, Three_Children, Medium_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, Medium_Income, Three_Children]

UNITS: Hours

Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, High_Income](t) = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, High_Income](t - dt) + (chng_in_SF_hours[thirtysix_to_fourtyfive, Three_Children, High_Income]) * dt

INIT Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, High_Income] = INIT_Hours_to_Self_Finance[thirtysix_to_fourtyfive, High_Income, Three_Children]

UNITS: Hours

UNITS: Hours

INFLOWS:

chng_in_SF_hours[sixteen_to_twentyfive, One_Child, Low_Income] = (desired_hours_to_SF[sixteen_to_twentyfive, One_Child, Low_Income]-Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Low_Income])/time_to_adj_hours_to_SF

UNITS: Hours/Years

chng_in_SF_hours[sixteen_to_twentyfive, One_Child, Medium_Income] = (desired_hours_to_SF[sixteen_to_twentyfive, One_Child, Medium_Income]-Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Medium_Income])/time_to_adj_hours_to_SF

avg_hourly_income_men[Low_Income] = GRAPH(TIME)

(1990.00, 2.550), (2015.00, 6.900)

UNITS: GBP/Hour

avg_hourly_income_men[Medium_Income] = GRAPH(TIME)

(1990.00, 6.500), (2015.00, 13.000)

UNITS: GBP/Hour

avg_hourly_income_men[High_Income] = GRAPH(TIME)

(1990.00, 20.00), (2015.00, 60.00)

UNITS: GBP/Hour

UNITS: GBP/Hour

avg_hourly_income_mothers[Age_Group, Number_of_Children_under_School_age, Income_Level] =
reference_hourly_income_women[Income_Level]*effect_of_AWP_on_avg_hourly_income

UNITS: GBP/Hour

avg_weekly_income_men[Low_Income] = avg_hourly_income_men[Low_Income]*standard_work_week

UNITS: GBP

avg_weekly_income_men[Medium_Income] = avg_hourly_income_men[Medium_Income]*standard_work_week

UNITS: GBP

avg_weekly_income_men[High_Income] = avg_hourly_income_men[High_Income]*standard_work_week

UNITS: GBP

UNITS: GBP

avg_weekly_income_mothers[Age_Group, Number_of_Children_under_School_age, Income_Level] =
Avg_Work_Participation_Mothers*avg_hourly_income_mothers

UNITS: GBP

childcare_cost_fraction[sixteen_to_twentyfive, One_Child, Low_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[sixteen_to_twentyfive, One_Child, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, One_Child, Medium_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[sixteen_to_twentyfive, One_Child, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, One_Child, High_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[sixteen_to_twentyfive, One_Child, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, Two_Children, Low_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[sixteen_to_twentyfive, Two_Children, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, Two_Children, Medium_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[sixteen_to_twentyfive, Two_Children, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, Two_Children, High_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[sixteen_to_twentyfive, Two_Children, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, Three_Children, Low_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[sixteen_to_twentyfive, Three_Children, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, Three_Children, Medium_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[sixteen_to_twentyfive, Three_Children, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[sixteen_to_twentyfive, Three_Children, High_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[sixteen_to_twentyfive, Three_Children, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, One_Child, Low_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[twentysix_to_thirtyfive, One_Child, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, One_Child, Medium_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[twentysix_to_thirtyfive, One_Child, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, One_Child, High_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[twentysix_to_thirtyfive, One_Child, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, Two_Children, Low_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[twentysix_to_thirtyfive, Two_Children, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, Two_Children, Medium_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[twentysix_to_thirtyfive, Two_Children, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, Two_Children, High_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[twentysix_to_thirtyfive, Two_Children, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, Three_Children, Low_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[twentysix_to_thirtyfive, Three_Children, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, Three_Children, Medium_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[twentysix_to_thirtyfive, Three_Children, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[twentysix_to_thirtyfive, Three_Children, High_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[twentysix_to_thirtyfive, Three_Children, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, One_Child, Low_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[thirtysix_to_fourtyfive, One_Child, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, One_Child, Medium_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[thirtysix_to_fourtyfive, One_Child, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, One_Child, High_Income] =
childcare_costs_per_child_per_hour/avg_hourly_income_mothers[thirtysix_to_fourtyfive, One_Child, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, Two_Children, Low_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[thirtysix_to_fourtyfive, Two_Children, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, Two_Children, Medium_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, Two_Children, High_Income] =
(childcare_costs_per_child_per_hour*2)/avg_hourly_income_mothers[thirtysix_to_fourtyfive, Two_Children, High_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, Three_Children, Low_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[thirtysix_to_fourtyfive, Three_Children, Low_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, Three_Children, Medium_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income]

UNITS: Dimensionless

childcare_cost_fraction[thirtysix_to_fourtyfive, Three_Children, High_Income] =
(childcare_costs_per_child_per_hour*3)/avg_hourly_income_mothers[thirtysix_to_fourtyfive, Three_Children, High_Income]

UNITS: Dimensionless

UNITS: Dimensionless

childcare_costs_per_child_per_hour = GRAPH(TIME)

(1990.00, 1.600), (2002.50, 2.900), (2015.00, 5.000)

UNITS: GBP/Hour

desired_cc_hours_to_be_Covered_by_grandmothers[Age_Group, Number_of_Children_under_School_age, Income_Level] =
Actual_CC_Hours_Covered_by_Grandmothers*effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, One_Child, Low_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, One_Child, Low_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Low_Income]), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, One_Child, Medium_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, One_Child, Medium_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, Medium_Income]), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, One_Child, High_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, One_Child, High_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, One_Child, High_Income]), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, Two_Children, Low_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, Two_Children, Low_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Low_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, Two_Children, Medium_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, Two_Children, Medium_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, Medium_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, Two_Children, High_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, Two_Children, High_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Two_Children, High_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, Three_Children, Low_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, Three_Children, Low_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Low_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, Three_Children, Medium_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, Three_Children, Medium_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, Medium_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[sixteen_to_twentyfive, Three_Children, High_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[sixteen_to_twentyfive, Three_Children, High_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Three_Children, High_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, One_Child, Low_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, One_Child, Low_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, One_Child, Low_Income]), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, One_Child, Medium_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, One_Child, Medium_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, One_Child, Medium_Income]), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, One_Child, High_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, One_Child, High_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, One_Child, High_Income]), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, Two_Children, Low_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, Two_Children, Low_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Two_Children, Low_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, Two_Children, Medium_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, Two_Children, Medium_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Two_Children, Medium_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, Two_Children, High_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, Two_Children, High_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Two_Children, High_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, Three_Children, Low_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, Three_Children, Low_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Three_Children, Low_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, Three_Children, Medium_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, Three_Children, Medium_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Three_Children, Medium_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[twentysix_to_thirtyfive, Three_Children, High_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[twentysix_to_thirtyfive, Three_Children, High_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Three_Children, High_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, One_Child, Low_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, One_Child, Low_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, One_Child, Low_Income]), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, One_Child, Medium_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, One_Child, Medium_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, One_Child, Medium_Income]), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, One_Child, High_Income] = MAX ((standard_work_week-
hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, One_Child, High_Income]-
Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, One_Child, High_Income]), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, Two_Children, Low_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, Two_Children, Low_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Low_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, Two_Children, Medium_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, Two_Children, Medium_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, Two_Children, High_Income] = MAX (((standard_work_week*2)-
(hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, Two_Children, High_Income]*2)-
(Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Two_Children, High_Income]*2)), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, Three_Children, Low_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, Three_Children, Low_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Low_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, Three_Children, Medium_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income]*3)), 0)

UNITS: Hours

desired_hours_to_SF[thirtysix_to_fourtyfive, Three_Children, High_Income] = MAX (((standard_work_week*3)-
(hours_covered_by_subsidised_childcare[thirtysix_to_fourtyfive, Three_Children, High_Income]*3)-
(Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Three_Children, High_Income]*3)), 0)

UNITS: Hours

UNITS: Hours

effect_of_AWP_on_avg_hourly_income[Age_Group, Number_of_Children_under_School_age, Income_Level] =
GRAPH(Avg_Work_Participation_Mothers/standard_work_week)

(0.000, 0.099), (0.100, 0.099), (0.200, 0.165), (0.300, 0.351), (0.400, 0.574), (0.500, 0.739), (0.600, 0.839), (0.700, 0.900), (0.800, 0.945), (0.900,
0.986), (1.000, 1.000)

UNITS: Dimensionless

effect_of_CCCF_on_SFWHA[Age_Group, Number_of_Children_under_School_age, Income_Level] = GRAPH(childcare_cost_fraction)

(0.000, 1.000), (0.200, 1.000), (0.400, 0.951), (0.600, 0.821), (0.800, 0.587), (1.000, 0.300), (1.200, 0.147), (1.400, 0.079), (1.600, 0.017), (1.800,
0.000), (2.000, 0.000)

UNITS: Dimensionless

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, One_Child, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.104), (10.0, 0.139), (20.0, 0.282), (30.0, 0.505), (40.0, 0.688), (50.0, 0.787), (60.0, 0.837), (70.0, 0.856), (80.0, 0.866), (90.0, 0.871), (100.0,
0.871)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, One_Child, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.084), (30.0, 0.262), (40.0, 0.416), (50.0, 0.644), (60.0, 0.738), (70.0, 0.767), (80.0, 0.776), (90.0, 0.785), (100.0,
0.790)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, One_Child, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.079), (40.0, 0.158), (50.0, 0.252), (60.0, 0.347), (70.0, 0.416), (80.0, 0.485), (90.0, 0.525), (100.0,
0.559)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, Two_Children, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.030), (10.0, 0.045), (20.0, 0.149), (30.0, 0.302), (40.0, 0.510), (50.0, 0.718), (60.0, 0.787), (70.0, 0.827), (80.0, 0.837), (90.0, 0.832), (100.0,
0.832)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, Two_Children, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.005), (30.0, 0.099), (40.0, 0.267), (50.0, 0.510), (60.0, 0.604), (70.0, 0.634), (80.0, 0.658), (90.0, 0.678), (100.0, 0.703)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, Two_Children, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.010), (30.0, 0.045), (40.0, 0.099), (50.0, 0.183), (60.0, 0.312), (70.0, 0.490), (80.0, 0.535), (90.0, 0.554), (100.0, 0.564)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, Three_Children, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.079), (30.0, 0.188), (40.0, 0.292), (50.0, 0.500), (60.0, 0.718), (70.0, 0.792), (80.0, 0.802), (90.0, 0.802), (100.0, 0.807)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, Three_Children, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.015), (40.0, 0.129), (50.0, 0.287), (60.0, 0.460), (70.0, 0.540), (80.0, 0.589), (90.0, 0.604), (100.0, 0.619)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[sixteen_to_twentyfive, Three_Children, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.020), (40.0, 0.074), (50.0, 0.178), (60.0, 0.292), (70.0, 0.386), (80.0, 0.446), (90.0, 0.495), (100.0, 0.515)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, One_Child, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.099), (10.0, 0.129), (20.0, 0.218), (30.0, 0.490), (40.0, 0.649), (50.0, 0.762), (60.0, 0.802), (70.0, 0.827), (80.0, 0.842), (90.0, 0.837), (100.0, 0.837)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, One_Child, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.030), (30.0, 0.163), (40.0, 0.337), (50.0, 0.490), (60.0, 0.604), (70.0, 0.693), (80.0, 0.743), (90.0, 0.767), (100.0, 0.777)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, One_Child, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.040), (40.0, 0.089), (50.0, 0.198), (60.0, 0.302), (70.0, 0.391), (80.0, 0.450), (90.0, 0.500), (100.0, 0.510)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, Two_Children, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.030), (10.0, 0.040), (20.0, 0.119), (30.0, 0.282), (40.0, 0.446), (50.0, 0.604), (60.0, 0.743), (70.0, 0.797), (80.0, 0.807), (90.0, 0.812), (100.0, 0.812)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, Two_Children, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.050), (40.0, 0.099), (50.0, 0.272), (60.0, 0.446), (70.0, 0.584), (80.0, 0.639), (90.0, 0.639), (100.0, 0.644)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, Two_Children, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.010), (30.0, 0.025), (40.0, 0.054), (50.0, 0.134), (60.0, 0.252), (70.0, 0.381), (80.0, 0.470), (90.0, 0.510), (100.0, 0.520)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, Three_Children, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.035), (30.0, 0.079), (40.0, 0.213), (50.0, 0.485), (60.0, 0.658), (70.0, 0.748), (80.0, 0.777), (90.0, 0.782), (100.0, 0.782)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, Three_Children, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.020), (40.0, 0.050), (50.0, 0.149), (60.0, 0.292), (70.0, 0.436), (80.0, 0.530), (90.0, 0.569), (100.0, 0.579)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[twentysix_to_thirtyfive, Three_Children, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.005), (40.0, 0.040), (50.0, 0.089), (60.0, 0.188), (70.0, 0.351), (80.0, 0.436), (90.0, 0.460), (100.0, 0.475)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, One_Child, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.064), (10.0, 0.119), (20.0, 0.228), (30.0, 0.371), (40.0, 0.530), (50.0, 0.723), (60.0, 0.782), (70.0, 0.802), (80.0, 0.807), (90.0, 0.807), (100.0, 0.822)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, One_Child, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.015), (30.0, 0.079), (40.0, 0.153), (50.0, 0.371), (60.0, 0.530), (70.0, 0.604), (80.0, 0.683), (90.0, 0.723), (100.0, 0.752)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, One_Child, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.005), (40.0, 0.045), (50.0, 0.089), (60.0, 0.223), (70.0, 0.356), (80.0, 0.426), (90.0, 0.470), (100.0, 0.475)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, Two_Children, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.030), (10.0, 0.045), (20.0, 0.074), (30.0, 0.139), (40.0, 0.208), (50.0, 0.342), (60.0, 0.500), (70.0, 0.609), (80.0, 0.688), (90.0, 0.772), (100.0, 0.787)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, Two_Children, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.035), (40.0, 0.099), (50.0, 0.178), (60.0, 0.282), (70.0, 0.426), (80.0, 0.584), (90.0, 0.619), (100.0, 0.629)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, Two_Children, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.000), (40.0, 0.035), (50.0, 0.099), (60.0, 0.183), (70.0, 0.287), (80.0, 0.361), (90.0, 0.406), (100.0, 0.431)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, Three_Children, Low_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.005), (10.0, 0.010), (20.0, 0.050), (30.0, 0.119), (40.0, 0.243), (50.0, 0.401), (60.0, 0.490), (70.0, 0.569), (80.0, 0.629), (90.0, 0.663), (100.0, 0.688)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, Three_Children, Medium_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.010), (40.0, 0.040), (50.0, 0.144), (60.0, 0.252), (70.0, 0.401), (80.0, 0.490), (90.0, 0.545), (100.0, 0.559)

UNITS: dmnl

effect_of_PFI_spent_on_CC_on_grandmothers_CC_hours_decisions[thirtysix_to_fourtyfive, Three_Children, High_Income] =
GRAPH(pct_of_family_income_spent_on_childcare)

(0.0, 0.000), (10.0, 0.000), (20.0, 0.000), (30.0, 0.005), (40.0, 0.005), (50.0, 0.040), (60.0, 0.119), (70.0, 0.228), (80.0, 0.322), (90.0, 0.391), (100.0, 0.401)

UNITS: dmnl

UNITS: dmnl

family_income[sixteen_to_twentyfive, One_Child, Low_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, One_Child, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, One_Child, Medium_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, One_Child, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, One_Child, High_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, One_Child, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, Two_Children, Low_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, Two_Children, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, Two_Children, Medium_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, Two_Children, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, Two_Children, High_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, Two_Children, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, Three_Children, Low_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, Three_Children, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, Three_Children, Medium_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, Three_Children, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[sixteen_to_twentyfive, Three_Children, High_Income] = avg_weekly_income_mothers[sixteen_to_twentyfive, Three_Children, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, One_Child, Low_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, One_Child, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, One_Child, Medium_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, One_Child, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, One_Child, High_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, One_Child, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, Two_Children, Low_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, Two_Children, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, Two_Children, Medium_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, Two_Children, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, Two_Children, High_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, Two_Children, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, Three_Children, Low_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, Three_Children, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[twentyfive_to_thirtyfive, Three_Children, Medium_Income] = avg_weekly_income_mothers[twentyfive_to_thirtyfive, Three_Children, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[twentysix_to_thirtyfive, Three_Children, High_Income] = avg_weekly_income_mothers[twentysix_to_thirtyfive, Two_Children, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, One_Child, Low_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, One_Child, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, One_Child, Medium_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, One_Child, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, One_Child, High_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, One_Child, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, Two_Children, Low_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, Two_Children, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, Two_Children, Medium_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, Two_Children, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, Two_Children, High_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, Two_Children, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, Three_Children, Low_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, Three_Children, Low_Income]+avg_weekly_income_men[Low_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, Three_Children, Medium_Income]+avg_weekly_income_men[Medium_Income]

UNITS: GBP

family_income[thirtysix_to_fourtyfive, Three_Children, High_Income] = avg_weekly_income_mothers[thirtysix_to_fourtyfive, Three_Children, High_Income]+avg_weekly_income_men[High_Income]

UNITS: GBP

UNITS: GBP

gcch_switch = 1

UNITS: Dimensionless

gender_adj_pct[Low_Income] = 0.05

UNITS: Dimensionless

gender_adj_pct[Medium_Income] = 0.1

UNITS: Dimensionless

gender_adj_pct[High_Income] = 0.2

UNITS: Dimensionless

UNITS: Dimensionless

grandmothers_available_CC_hours[Age_Group, Number_of_Children_under_School_age, Income_Level] = (standard_work_week - Average_Work_Participation_Grandmothers)*gcch_switch

UNITS: Hours

hours_covered_by_subsidised_childcare[Age_Group, Number_of_Children_under_School_age, Income_Level] = IF subsidy_switch = 1 THEN actual_subsidised_hours*subsidy_switch ELSE 0

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, One_Child] = 15

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, Two_Children] = 12

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, Three_Children] = 10

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, One_Child] = 10

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, Two_Children] = 8

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, Three_Children] = 6

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, One_Child] = 5

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, Two_Children] = 4

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, Three_Children] = 3

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Low_Income, One_Child] = 15

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Low_Income, Two_Children] = 12

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Low_Income, Three_Children] = 10

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Medium_Income, One_Child] = 10

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, Medium_Income, Two_Children] = 8

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, Medium_Income, Three_Children] = 6

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, High_Income, One_Child] = 5

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, High_Income, Two_Children] = 4

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirty-five, High_Income, Three_Children] = 3

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Low_Income, One_Child] = 10

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Low_Income, Two_Children] = 8

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Low_Income, Three_Children] = 6

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Medium_Income, One_Child] = 8

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Medium_Income, Two_Children] = 6

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, Medium_Income, Three_Children] = 4

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, High_Income, One_Child] = 4

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, High_Income, Two_Children] = 3

UNITS: Hours

INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirty-six_to_forty-five, High_Income, Three_Children] = 2

UNITS: Hours

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twenty-five, Low_Income, One_Child] = standard_work_week-

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twenty-five, Low_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twenty-five, Low_Income, Two_Children] = standard_work_week-

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twenty-five, Low_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twenty-five, Low_Income, Three_Children] = standard_work_week-

INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twenty-five, Low_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Medium_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Medium_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, Medium_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Medium_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, High_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, Low_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, High_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[sixteen_to_twentyfive, High_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[sixteen_to_twentyfive, High_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, Low_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Low_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, Low_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Low_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, Low_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Low_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, High_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, High_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twenty-six_to_thirtyfive, High_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twenty-six_to_thirtyfive, Medium_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[twentysix_to_thirtyfive, High_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[twentysix_to_thirtyfive, High_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Low_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Low_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Low_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, Medium_Income, Three_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, High_Income, One_Child] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, High_Income, One_Child]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, High_Income, Two_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, High_Income, Two_Children]

UNITS: Hours

INIT_Average_Work_Participation_Grandmothers[thirtysix_to_fourtyfive, High_Income, Three_Children] = standard_work_week-
INIT_Actual_CC_Hours_Covered_by_Grandmothers[thirtysix_to_fourtyfive, High_Income, Three_Children]

UNITS: Hours

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, Low_Income, One_Child] = 10

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, Low_Income, Two_Children] = 10

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, Low_Income, Three_Children] = 10

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, Medium_Income, One_Child] = 36

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, Medium_Income, Two_Children] = 7

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, Medium_Income, Three_Children] = 6

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, High_Income, One_Child] = 38

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, High_Income, Two_Children] = 37

UNITS: Hours

INIT_avg_WP_mothers[sixteen_to_twentyfive, High_Income, Three_Children] = 3

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, Low_Income, One_Child] = 10

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, Low_Income, Two_Children] = 10

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, Low_Income, Three_Children] = 10

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, Medium_Income, One_Child] = 36

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, Medium_Income, Two_Children] = 7

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, Medium_Income, Three_Children] = 6

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, High_Income, One_Child] = 38

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, High_Income, Two_Children] = 37

UNITS: Hours

INIT_avg_WP_mothers[twentsix_to_thirtyfive, High_Income, Three_Children] = 4

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Low_Income, One_Child] = 10

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Low_Income, Two_Children] = 10

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Low_Income, Three_Children] = 10

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Medium_Income, One_Child] = 36

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Medium_Income, Two_Children] = 7

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, Medium_Income, Three_Children] = 6

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, High_Income, One_Child] = 38

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, High_Income, Two_Children] = 37

UNITS: Hours

INIT_avg_WP_mothers[thirtysix_to_fourtyfive, High_Income, Three_Children] = 2

UNITS: Hours

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Low_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Low_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Low_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Medium_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Medium_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, Medium_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, High_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, High_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[sixteen_to_twentyfive, High_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[twentsix_to_thirtyfive, Low_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[twentsix_to_thirtyfive, Low_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Low_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Medium_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Medium_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, Medium_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, High_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, High_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[twenty-six_to_thirty-five, High_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Low_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Low_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Low_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Medium_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Medium_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, Medium_Income, Three_Children] = 90

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, High_Income, One_Child] = 30

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, High_Income, Two_Children] = 60

UNITS: Hours

INIT_Hours_to_Self_Finance[thirty-six_to_forty-five, High_Income, Three_Children] = 90

UNITS: Hours

UNITS: Hours

pct = 100

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, One_Child, Low_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, One_Child, Low_Income]/family_income[sixteen_to_twentyfive, One_Child, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, One_Child, Medium_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, One_Child, Medium_Income]/family_income[sixteen_to_twentyfive, One_Child, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, One_Child, High_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, One_Child, High_Income]/family_income[sixteen_to_twentyfive, One_Child, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, Two_Children, Low_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, Two_Children, Low_Income]/family_income[sixteen_to_twentyfive, Two_Children, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, Two_Children, Medium_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, Two_Children, Medium_Income]/family_income[sixteen_to_twentyfive, Two_Children, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, Two_Children, High_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, Two_Children, High_Income]/family_income[sixteen_to_twentyfive, Two_Children, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, Three_Children, Low_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, Three_Children, Low_Income]/family_income[sixteen_to_twentyfive, Three_Children, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, Three_Children, Medium_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, Three_Children, Medium_Income]/family_income[sixteen_to_twentyfive, Three_Children, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[sixteen_to_twentyfive, Three_Children, High_Income] = MIN
(((weekly_childcare_cost[sixteen_to_twentyfive, Three_Children, High_Income]/family_income[sixteen_to_twentyfive, Three_Children, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, One_Child, Low_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, One_Child, Low_Income]/family_income[twentysix_to_thirtyfive, One_Child, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, One_Child, Medium_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, One_Child, Medium_Income]/family_income[twentysix_to_thirtyfive, One_Child, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, One_Child, High_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, One_Child, High_Income]/family_income[twentysix_to_thirtyfive, One_Child, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, Two_Children, Low_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, Two_Children, Low_Income]/family_income[twentysix_to_thirtyfive, Two_Children, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, Two_Children, Medium_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, Two_Children, Medium_Income]/family_income[twentysix_to_thirtyfive, Two_Children, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, Two_Children, High_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, Two_Children, High_Income]/family_income[twentysix_to_thirtyfive, Two_Children, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, Three_Children, Low_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, Three_Children, Low_Income]/family_income[twentysix_to_thirtyfive, Three_Children, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, Three_Children, Medium_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, Three_Children, Medium_Income]/family_income[twentysix_to_thirtyfive, Three_Children, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[twentysix_to_thirtyfive, Three_Children, High_Income] = MIN
(((weekly_childcare_cost[twentysix_to_thirtyfive, Three_Children, High_Income]/family_income[twentysix_to_thirtyfive, Three_Children, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, One_Child, Low_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, One_Child, Low_Income]/family_income[thirtysix_to_fourtyfive, One_Child, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, One_Child, Medium_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, One_Child, Medium_Income]/family_income[thirtysix_to_fourtyfive, One_Child, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, One_Child, High_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, One_Child, High_Income]/family_income[thirtysix_to_fourtyfive, One_Child, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, Two_Children, Low_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, Two_Children, Low_Income]/family_income[thirtysix_to_fourtyfive, Two_Children, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, Two_Children, Medium_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, Two_Children, Medium_Income]/family_income[thirtysix_to_fourtyfive, Two_Children, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, Two_Children, High_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, Two_Children, High_Income]/family_income[thirtysix_to_fourtyfive, Two_Children, High_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, Three_Children, Low_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, Three_Children, Low_Income]/family_income[thirtysix_to_fourtyfive, Three_Children, Low_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, Three_Children, Medium_Income]/family_income[thirtysix_to_fourtyfive, Three_Children, Medium_Income])*pct), pct)

UNITS: Dimensionless

pct_of_family_income_spent_on_childcare[thirtysix_to_fourtyfive, Three_Children, High_Income] = MIN
(((weekly_childcare_cost[thirtysix_to_fourtyfive, Three_Children, High_Income]/family_income[thirtysix_to_fourtyfive, Three_Children, High_Income])*pct), pct)

UNITS: Dimensionless

UNITS: Dimensionless

reference_hourly_income_women[Low_Income] = avg_hourly_income_men[Low_Income]-
avg_hourly_income_men[Low_Income]*gender_adj_pct[Low_Income]

UNITS: GBP/Hour

reference_hourly_income_women[Medium_Income] = avg_hourly_income_men[Medium_Income]-
avg_hourly_income_men[Medium_Income]*gender_adj_pct[Medium_Income]

UNITS: GBP/Hour

reference_hourly_income_women[High_Income] = avg_hourly_income_men[High_Income]-
avg_hourly_income_men[High_Income]*gender_adj_pct[High_Income]

UNITS: GBP/Hour

UNITS: GBP/Hour

self_financed_work_hours_available[sixteen_to_twentyfive, One_Child, Low_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Low_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, One_Child, Low_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, One_Child, Medium_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Medium_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, One_Child, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, One_Child, High_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, High_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, One_Child, High_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, Two_Children, Low_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Low_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, Two_Children, Low_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, Two_Children, Medium_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Medium_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, Two_Children, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, Two_Children, High_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, High_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, Two_Children, High_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, Three_Children, Low_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Low_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, Three_Children, Low_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, Three_Children, Medium_Income] =
Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Medium_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, Three_Children, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[sixteen_to_twentyfive, Three_Children, High_Income] = Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, High_Income]*effect_of_CCCF_on_SFWHA[sixteen_to_twentyfive, Three_Children, High_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, One_Child, Low_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Low_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, One_Child, Low_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, One_Child, Medium_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Medium_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, One_Child, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, One_Child, High_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, High_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, One_Child, High_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, Two_Children, Low_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, Two_Children, Low_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, Two_Children, Low_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, Two_Children, Medium_Income] =
Hours_to_Self_Finance[twentysix_to_thirtyfive, Two_Children, Medium_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, Two_Children, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, Two_Children, High_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, Two_Children, High_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, Two_Children, High_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, Three_Children, Low_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, Three_Children, Low_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, Three_Children, Low_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, Three_Children, Medium_Income] =
Hours_to_Self_Finance[twentysix_to_thirtyfive, Three_Children, Medium_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, Three_Children, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[twentysix_to_thirtyfive, Three_Children, High_Income] = Hours_to_Self_Finance[twentysix_to_thirtyfive, Three_Children, High_Income]*effect_of_CCCF_on_SFWHA[twentysix_to_thirtyfive, Three_Children, High_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, One_Child, Low_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, Low_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, One_Child, Low_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, One_Child, Medium_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, Medium_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, One_Child, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, One_Child, High_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, High_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, One_Child, High_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, Two_Children, Low_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Low_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, Two_Children, Low_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, Two_Children, Medium_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Medium_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, Two_Children, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, Two_Children, High_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, High_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, Two_Children, High_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, Three_Children, Low_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Low_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, Three_Children, Low_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Medium_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, Three_Children, Medium_Income]

UNITS: Hours

self_financed_work_hours_available[thirtysix_to_fourtyfive, Three_Children, High_Income] = Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, High_Income]*effect_of_CCCF_on_SFWHA[thirtysix_to_fourtyfive, Three_Children, High_Income]

UNITS: Hours

UNITS: Hours

standard_work_week = 40

UNITS: Hours

subsidy_switch = 1

UNITS: Dimensionless

time_to_adj_CC_hours_covered_by_grandmothers = 2

UNITS: Years

time_to_adj_hours_to_SF = 1

UNITS: Years

time_to_adj_work_participation = 1

UNITS: Years

time_to_adj_work_participation_grandmothers = 2

UNITS: Years

total_work_hours_available[Age_Group, Number_of_Children_under_School_age, Income_Level] =
hours_covered_by_subsidised_childcare+Actual_CC_Hours_Covered_by_Grandmothers+self_financed_work_hours_available

UNITS: Hours

total_work_hours_available_grandmothers[Age_Group, Number_of_Children_under_School_age, Income_Level] = standard_work_week-
desired_cc_hours_to_be_Covered_by_grandmothers

UNITS: Hours

weekly_childcare_cost[sixteen_to_twentyfive, One_Child, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, One_Child, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, One_Child, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, One_Child, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, Two_Children, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, Two_Children, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, Two_Children, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, Two_Children, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, Three_Children, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, Three_Children, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[sixteen_to_twentyfive, Three_Children, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[sixteen_to_twentyfive, Three_Children, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentyfive_to_thirtyfive, One_Child, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentyfive_to_thirtyfive, One_Child, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, One_Child, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, One_Child, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, One_Child, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, Two_Children, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, Two_Children, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, Two_Children, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, Two_Children, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, Two_Children, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, Two_Children, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, Three_Children, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, Three_Children, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, Three_Children, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, Three_Children, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[twentysix_to_thirtyfive, Three_Children, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[twentysix_to_thirtyfive, Three_Children, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, One_Child, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, One_Child, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, One_Child, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, One_Child, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, Two_Children, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, Two_Children, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, Two_Children, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, Two_Children, High_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, Three_Children, Low_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Low_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, Three_Children, Medium_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, Medium_Income]), 0)

UNITS: GBP

weekly_childcare_cost[thirtysix_to_fourtyfive, Three_Children, High_Income] = MAX
((childcare_costs_per_child_per_hour*Hours_to_Self_Finance[thirtysix_to_fourtyfive, Three_Children, High_Income]), 0)

UNITS: GBP

UNITS: GBP

work_participation[Age_Group, Number_of_Children_under_School_age, Income_Level] = GRAPH(SMTH1 (total_work_hours_available, 2))
(0.00, 0.00), (4.00, 3.99), (8.00, 7.08), (12.00, 9.00), (16.00, 10.99), (20.00, 14.57), (24.00, 19.46), (28.00, 26.75), (32.00, 30.69), (36.00, 35.22),
(40.00, 38.28)

UNITS: Hours

work_participation_grandmothers[Age_Group, Number_of_Children_under_School_age, Income_Level] =
GRAPH(total_work_hours_available_grandmothers)

(0.00, 0.00), (4.00, 4.00), (8.00, 8.00), (12.00, 12.00), (16.00, 15.00), (20.00, 16.00), (24.00, 20.00), (28.00, 24.00), (32.00, 30.00), (36.00, 35.00),
(40.00, 38.00)

UNITS: Hours