
NLSY97 Appendix 5:
Income and Assets Variable Creation

HOUSEHOLD INCOME AND ASSETS

Variables Created:	CV_HH_NET_WORTH_P CV_INCOME_GROSS_YR CV_HH_POV_RATIO	CV_HH_NET_WORTH_Y CV_HH_INCOME_SOURCE
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Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
YI_300	YINC-300	YI_17900	YINC-17900
YI_400	YINC-400	YI_18000	YINC-18000
YI_1400 – YI2700	YINC-1400 – YINC-2700	YI_18100 – YI_19900	YINC-18100 – YINC-19900
YI_2900	YINC-2900	YI_20000 – YI_20500	YINC-20000 – YINC-20500
YI_3000	YINC-3000	YI_20800	YINC-20800
YI_3100	YINC-3100	I2100001–20	YINC-21000_001–_020
YI_3300	YINC-3300	I2140001–20	YINC-21400.01–.20
YI_3400	YINC-3400	I2170001–20	YINC-21700.01–.20
YI_3900 – YI_5400	YINC-3900 – YINC-5400	I2180001–20	YINC-21800.01–.20
YI_55001–07	YINC-5500_001–5500_007	I2190009	YINC-21900.09
YI_5600 – YI_6300	YINC-5600 – YINC-6300	YI_22100 – YI_22300	YINC-22100 – YINC-22300
YI_6310	YINC-6310	PUBID	PUBID
YI_6320	YINC-6320	P5_010	P5-010
YI_6400 – YI_6900	YINC-6400 – YINC-6900	P5_011	P5-011
YI_6910 – YI_6940	YINC-6910 – YINC-6940	P5_012	P5-012
YI_7000 – YI_7500	YINC-7000 – YINC-7500	P5_016 – P5_023	P5-016 – P5-023
YI_7510 – YI_7540	YINC-7510 – YINC-7540	P5_028	P5-028
YI_7600 – YI_9900	YINC-7600 – YINC-9900	P5_029	P5-029
YI_10000 – YI_10700	YINC-10000 – YINC-10700	P5_031 – P5_033	P5031 – P5-033
I111001–09	YINC-11100.01–09	P5_045 – P5_050	P5-045 – P5-050
I111101–08	YINC-11110.01–08	P5_052 – P5_057	P5-052 – P5-057
I112001–08	YINC-11200.01–08	P5_063 – P5_069	P5-063 – P5-069
I116001–08	YINC-11600.01–08	P5_071	P5-071
I117001–08	YINC-11700.01–08	P5_07301–09	P5-073.01–.09
YI_12200 – YI_15200	YINC-12200 – YINC-15200	P5_07401–09	P5-074.01–.09
YI_15800 – YI_16700	YINC-15800 – YINC-16700	P5_07701–09	P5-077.01–.09
I1680001–20	YINC-16800.01–20	P5_07801–09	P5-078.01–.09
YI_16900	YINC-16900	P5_082 – P5_099	P5-082 – P5-099
YI_17000	YINC-17000	P5_100 – P5_105	P5-100 – P5_105
YI_17100	YINC-17100	P5_112 – P5_122	P5-112 – P5-122
YI_17200	YINC-17200	P5_124 – P5_156	P5-124 – P5-156
YI_17300	YINC-17300	PNORCID	PNORCID
YI_17400	YINC-17400	KAGE	KEY!AGE
YI_17500	YINC-17500	PUBID	PUBID
YI_17600	YINC-17600	PINF20	PINF-020
YI_17700	YINC-17700	PARYTHID	PARYOUTH_ID
YI_17800	YINC-17800	PARYTHR	PARYOUTH_PARENT

This program creates the Household Net Worth and Gross Household Income variables (according to information collected from the parent and youth). The household net worth variables according to the parent (hhworthp) and to the youth (hhworthY) are actual numbers that result from taking all assets and subtracting liabilities of the household. The gross household income according to the parent (groshhIp) and to the youth (groshhIY) includes total annual cash receipts before taxes from all sources. An indicator variable is also created to record whether the household income was according to the parent or youth. Finally, a variable is created indicating the ratio of household income to the poverty level.

******SECTION 1: PARENT HOUSEHOLD NET WORTH AND GROSS HOUSEHOLD INCOME ****/**

flag=0;

Appendix 5: Income and Assets Variable Creation

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/*First, create a variable indicating net receipts from non-farm employment earned by the R, such as wages  
(nfarmwgR). */  
nfarmwgR=0;  
if (P5_010=1 or P5_011=1) and P5_016 not in (-1, -2, -3) then nfarmwgR=P5_016;  
if (P5_010=1 or P5_011=1) and (P5_016 eq -1 or P5_016 eq -2 or P5_016 eq -3) then do;  
    if P5_017=1 then do; nfarmwgR=2500; flag=1; end;  
    if P5_017=2 then do; nfarmwgR=7500; flag=1; end;  
    if P5_017=3 then do; nfarmwgR=17500; flag=1; end;  
    if P5_017=4 then do; nfarmwgR=37500; flag=1; end;  
    if P5_017=5 then do; nfarmwgR=75000; flag=1; end;  
    if P5_017=6 then do; nfarmwgR=175000; flag=1; end;  
    if P5_017=7 then do; nfarmwgR=250001; flag=1; end;  
    end;  
if P5_011=-2 or P5_017=-2 then nfarmwgR=-2;  
if P5_012=-1 or P5_017=-1 then nfarmwgR=-1;  
if P5_011=-3 or P5_012=-3 or P5_017=-3 then nfarmwgR=-3;  
  
/*Second, create a variable indicating net receipts from farm self-employment earned by the R (farmwgR)*/  
farmwgR=0;  
if P5_018=1 and P5_019 not in (-1, -2, -3) then farmwgR=P5_019;  
if P5_018=1 and (P5_019 eq -1 or P5_019 eq -2 or P5_019 eq -3) then do;  
    if P5_020=1 then do; farmwgR=-2; flag=1; end;  
    if P5_020=2 then do; farmwgR=2500; flag=1; end;  
    if P5_020=3 then do; farmwgR=7500; flag=1; end;  
    if P5_020=4 then do; farmwgR=17500; flag=1; end;  
    if P5_020=5 then do; farmwgR=37500; flag=1; end;  
    if P5_020=6 then do; farmwgR=75000; flag=1; end;  
    if P5_020=7 then do; farmwgR=175000; flag=1; end;  
    if P5_020=8 then do; farmwgR=250001; flag=1; end;  
    end;  
if P5_018=-1 or P5_020=-1 then farmwgR=-1;  
if P5_018=-2 or P5_020=-2 then farmwgR=-2;  
if P5_018=-3 or P5_020=-3 then farmwgR=-3;  
  
/*Third, create the above variables for the R's spouse/partner: nfarmwgS and farmwgS respectively */  
nfarmwgS=0;  
if P5_021=1 and P5_022=1 and P5_028 not in (-1, -2, -3) then nfarmwgS=P5_028;  
if P5_021=1 and P5_022=1 and (P5_028 eq -1 or P5_028 eq -2 or P5_028 eq -3) then do;  
    if P5_029=1 then do; nfarmwgS=2500; flag=1; end;  
    if P5_029=2 then do; nfarmwgS=7500; flag=1; end;  
    if P5_029=3 then do; nfarmwgS=17500; flag=1; end;  
    if P5_029=4 then do; nfarmwgS=37500; flag=1; end;  
    if P5_029=5 then do; nfarmwgS=75000; flag=1; end;  
    if P5_029=6 then do; nfarmwgS=175000; flag=1; end;  
    if P5_029=7 then do; nfarmwgS=250001; flag=1; end;  
    end;  
if P5_022=-1 or P5_029=-1 then nfarmwgS=-1;  
if P5_022=-2 or P5_029=-2 then nfarmwgS=-2;  
if P5_022=-3 or P5_029=-3 then nfarmwgS=-3;  
  
farmwgS=0;  
if P5_021=1 and P5_031=1 and P5_032 not in (-1, -2, -3) then farmwgS=P5_032;  
if P5_021=1 and P5_031=1 and (P5_032 eq -1 or P5_032 eq -2 or P5_032 eq -3) then do;  
    if P5_033=1 then do; farmwgS=-2; flag=1; end;  
    if P5_033=2 then do; farmwgS=2500; flag=1; end;  
    if P5_033=3 then do; farmwgS=7500; flag=1; end;  
    if P5_033=4 then do; farmwgS=17500; flag=1; end;
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if P5_033=5 then do; farmwgS=37500; flag=1; end;
if P5_033=6 then do; farmwgS=75000; flag=1; end;
if P5_033=7 then do; farmwgS=175000; flag=1; end;
if P5_033=8 then do; farmwgS=250001; flag=1; end;
end;
if P5_031=-1 or P5_033=-1 then farmwgS=-1;
if P5_031=-2 or P5_033=-2 then farmwgS=-2;
if P5_031=-3 or P5_033=-3 then farmwgS=-3;

/*Fourth, create a variable capturing the earned interests by the R and spouse (S) from various accounts */
interest=0;
if P5_045=1 and P5_046 not in (-1, -2, -3) then interest=P5_046;
if P5_045=1 and (P5_046 eq -1 or P5_046 eq -2 or P5_046 eq -3) then do;
    if P5_047=1 then do; interest=500; flag=1; end;
    if P5_047=2 then do; interest=1750; flag=1; end;
    if P5_047=3 then do; interest=3750; flag=1; end;
    if P5_047=4 then do; interest=7500; flag=1; end;
    if P5_047=5 then do; interest=17500; flag=1; end;
    if P5_047=6 then do; interest=37500; flag=1; end;
    if P5_047=7 then do; interest=50001; flag=1; end;
end;
if P5_045 eq -1 or P5_047=-1 then interest=-1;
if P5_045 eq -2 or P5_047=-2 then interest=-2;
if P5_045 eq -3 or P5_047=-3 then interest=-3;

/*Fifth, create a variable capturing any received AFDC or ADC */
AFDCADC=0;
if P5_048=1 and P5_049 not in (-1, -2, -3) then AFDCADC=P5_049;
if P5_048=1 and (P5_049 eq -1 or P5_049 eq -2 or P5_049 eq -3) then do;
    if P5_050=1 then do; AFDCADC=250; flag=1; end;
    if P5_050=2 then do; AFDCADC=750; flag=1; end;
    if P5_050=3 then do; AFDCADC=1750; flag=1; end;
    if P5_050=4 then do; AFDCADC=3750; flag=1; end;
    if P5_050=5 then do; AFDCADC=6250; flag=1; end;
    if P5_050=6 then do; AFDCADC=8750; flag=1; end;
    if P5_050=7 then do; AFDCADC=10001; flag=1; end;
end;
if P5_048=-1 or P5_050=-1 then AFDCADC=-1;
if P5_048=-2 or P5_050=-2 then AFDCADC=-2;
if P5_048=-3 or P5_050=-3 then AFDCADC=-3;

/*Sixth, create a variable indicating whether any food stamps are collected */
foodst=0;
if P5_052=1 and P5_053 not in (-1, -2, -3) then foodst=P5_053;
if P5_052=1 and (P5_053 eq -1 or P5_053 eq -2 or P5_053 eq -3) then do;
    if P5_054=1 then do; foodst=250; flag=1; end;
    if P5_054=2 then do; foodst=750; flag=1; end;
    if P5_054=3 then do; foodst=1750; flag=1; end;
    if P5_054=4 then do; foodst=3750; flag=1; end;
    if P5_054=5 then do; foodst=6250; flag=1; end;
    if P5_054=6 then do; foodst=8750; flag=1; end;
    if P5_054=7 then do; foodst=10001; flag=1; end;
end;
if P5_052=-1 or P5_054=-1 then foodst=-1;
if P5_052=-2 or P5_054=-2 then foodst=-2;
if P5_052=-3 or P5_054=-3 then foodst=-3;

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Appendix 5: Income and Assets Variable Creation

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/*Seventh, create a variable indicating whether the R and S received any SSI */
SSI=0;
if P5_055=1 and P5_056 not in (-1, -2, -3) then SSI=P5_056;
if P5_055=1 and (P5_056 eq -1 or P5_056 eq -2 or P5_056 eq -3) then do;
    if P5_057=1 then do; SI=250; flag=1; end;
    if P5_057=2 then do; SSI=750; flag=1; end;
    if P5_057=3 then do; SSI=1750; flag=1; end;
    if P5_057=4 then do; SSI=3750; flag=1; end;
    if P5_057=5 then do; SSI=6250; flag=1; end;
    if P5_057=6 then do; SSI=8750; flag=1; end;
    if P5_057=7 then do; SSI=10001; flag=1; end;
    end;
if P5_055=-1 or P5_057=-1 then SSI=-1;
if P5_055=-2 or P5_057=-2 then SSI=-2;
if P5_055=-3 or P5_057=-3 then SSI=-3;

/*Eighth, create a variable indicating whether they collected any child support */
childsup=0;
if P5_064=1 and P5_065 not in (-1, -2, -3) then childsup=P5_065;
if P5_064=1 and (P5_065 eq -1 or P5_065 eq -2 or P5_065 eq -3) then do;
    if P5_066=1 then do; childsup=500; flag=1; end;
    if P5_066=2 then do; childsup=1750; flag=1; end;
    if P5_066=3 then do; childsup=3750; flag=1; end;
    if P5_066=4 then do; childsup=7500; flag=1; end;
    if P5_066=5 then do; childsup=17500; flag=1; end;
    if P5_066=6 then do; childsup=37500; flag=1; end;
    if P5_066=7 then do; childsup=50001; flag=1; end;
    end;
if P5_064=-1 or P5_066=-1 then childsup=-1;
if P5_064=-2 or P5_066=-2 then childsup=-2;
if P5_064=-3 or P5_066=-3 then childsup=-3;

/* Next create another variable capturing any rental income, as well as workers' compensation benefits,
welfare and unemployment benefits, from the R and S */
rentalI=0;
if P5_067=1 and P5_068 not in (-1, -2, -3) then rentalI=P5_068;
if P5_067=1 and (P5_068 eq -1 or P5_068 eq -2 or P5_068 eq -3) then do;
    if P5_069=1 then do; rentalI=500; flag=1; end;
    if P5_069=2 then do; rentalI=1750; flag=1; end;
    if P5_069=3 then do; rentalI=3750; flag=1; end;
    if P5_069=4 then do; rentalI=7500; flag=1; end;
    if P5_069=5 then do; rentalI=17500; flag=1; end;
    if P5_069=6 then do; rentalI=37500; flag=1; end;
    if P5_069=7 then do; rentalI=50001; flag=1; end;
    end;
if P5_067=-1 or P5_069=-1 then rentalI=-1;
if P5_067=-2 or P5_069=-2 then rentalI=-2;
if P5_067=-3 or P5_069=-3 then rentalI=-3;

/*Now a variable capturing any income from any family member older than 14 other than R and spouse (S) */
array famI famI01 famI02 famI03 famI04 famI05 famI06 famI07 famI08 famI09;
array P5_073 P5_07301 P5_07302 P5_07303 P5_07304 P5_07305 P5_07306 P5_07307 P5_07308 P5_07309;
array P5_074 P5_07401 P5_07402 P5_07403 P5_07404 P5_07405 P5_07406 P5_07407 P5_07408 P5_07409;
array P5_077 P5_07701 P5_07702 P5_07703 P5_07704 P5_07705 P5_07706 P5_07707 P5_07708 P5_07709;
array P5_078 P5_07801 P5_07802 P5_07803 P5_07804 P5_07805 P5_07806 P5_07807 P5_07808 P5_07809;

do I=1 to 9;
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famI(I)=0;
if P5_073(I)=0 and P5_074(I)=0 then famI(I)=(P5_077(I)+P5_078(I));
if P5_073(I)=-1 or P5_074(I)=-1 or P5_077(I)=-1 or P5_078(I)=-1 then famI(I)=-1;
if P5_073(I)=-2 or P5_074(I)=-2 or P5_077(I)=-2 or P5_078(I)=-2 then famI(I)=-2;
if P5_073(I)=-3 or P5_074(I)=-3 or P5_077(I)=-3 or P5_078(I)=-3 then famI(I)=-3;
end;

/*A variable indicating the value of the property if the R lives in a ranch or farm */
pvranch=0;
if P5_082=1 and P5_084=1 and P5_086 not in (-1, -2, -3) then pvranch=P5_086;
if P5_082=1 and P5_084=1 and (P5_086 eq -1 or P5_086 eq -2 or P5_086 eq -3) then do;
    if P5_087=1 then do; pvranch=12500; flag=1; end;
    if P5_087=2 then do; pvranch=37500; flag=1; end;
    if P5_087=3 then do; pvranch=75000; flag=1; end;
    if P5_087=4 then do; pvranch=175000; flag=1; end;
    if P5_087=5 then do; pvranch=375000; flag=1; end;
    if P5_087=6 then do; pvranch=750000; flag=1; end;
    if P5_087=7 then do; pvranch=1000001; flag=1; end;
    end;
if P5_082=1 and P5_084=2 and P5_088 not in (-1, -2, -3) and P5_091 not in (-1, -2, -3) then pvranch=P5_091;
if P5_082=1 and P5_084=2 and P5_088 not in (-1, -2, -3) and (P5_091= -1 | P5_091= -2 | P5_091= -3) then do;
    if P5_092=1 then do; pvranch=12500; flag=1; end;
    if P5_092=2 then do; pvranch=37500; flag=1; end;
    if P5_092=3 then do; pvranch=75000; flag=1; end;
    if P5_092=4 then do; pvranch=175000; flag=1; end;
    if P5_092=5 then do; pvranch=375000; flag=1; end;
    if P5_092=6 then do; pvranch=750000; flag=1; end;
    if P5_092=7 then do; pvranch=1000001; flag=1; end;
    end;
if P5_082=1 and P5_084=2 and P5_088 ge 1 and P5_089 not in (-1, -2, -3) then pvranch=P5_089;
if P5_082=1 and P5_084=2 and P5_088 ge 1 and (P5_089 eq -1 or P5_089 eq -2 or P5_089 eq -3) then do;
    if P5_090=1 then do; pvranch=12500; flag=1; end;
    if P5_090=2 then do; pvranch=37500; flag=1; end;
    if P5_090=3 then do; pvranch=75000; flag=1; end;
    if P5_090=4 then do; pvranch=175000; flag=1; end;
    if P5_090=5 then do; pvranch=375000; flag=1; end;
    if P5_090=6 then do; pvranch=750000; flag=1; end;
    if P5_090=7 then do; pvranch=1000001; flag=1; end;
    end;
if P5_082=-1 or P5_084=-1 or P5_087=-1 or P5_090=-1 or P5_092=-1 then pvranch=-1;
if P5_082=-2 or P5_084=-2 or P5_087=-2 or P5_090=-2 or P5_092=-2 then pvranch=-2;
if P5_082=-3 or P5_084=-3 or P5_087=-3 or P5_090=-3 or P5_092=-3 then pvranch=-3;

/*A variable indicating the value of the property if the R lives in a mobile home */
pvmobile=0;
if P5_083=1 and P5_093=1 and P5_095 not in (-1, -2, -3) then pvmobile=P5_095;
if P5_083=1 and P5_093=1 and (P5_095 eq -1 or P5_095 eq -2 or P5_095 eq -3) then do;
    if P5_096=1 then do; pvmobile=12500; flag=1; end;
    if P5_096=2 then do; pvmobile=37500; flag=1; end;
    if P5_096=3 then do; pvmobile=75000; flag=1; end;
    if P5_096=4 then do; pvmobile=175000; flag=1; end;
    if P5_096=5 then do; pvmobile=375000; flag=1; end;
    if P5_096=6 then do; pvmobile=750000; flag=1; end;
    if P5_096=7 then do; pvmobile=1000001; flag=1; end;
    end;
if P5_083=1 and P5_093=2 and P5_097 not in (-1, -2, -3) then pvmobile=P5_097;
if P5_083=1 and P5_093=2 and (P5_097 eq -1 or P5_097 eq -2 or P5_097 eq -3) then do;

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if P5_098=1 then do; pvmobile=2500; flag=1; end;
if P5_098=2 then do; pvmobile=7500; flag=1; end;
if P5_098=3 then do; pvmobile=17500; flag=1; end;
if P5_098=4 then do; pvmobile=37500; flag=1; end;
if P5_098=5 then do; pvmobile=75000; flag=1; end;
if P5_098=6 then do; pvmobile=175000; flag=1; end;
if P5_098=7 then do; pvmobile=250001; flag=1; end;
end;

if P5_083=1 and P5_093=3 and P5_099 not in (-1, -2, -3) then pvmobile=P5_099;
if P5_083=1 and P5_093=3 and (P5_099 eq -1 or P5_099 eq -2 or P5_099 eq -3) then do;
    if P5_100=1 then do; pvmobile=2500; flag=1; end;
    if P5_100=2 then do; pvmobile=7500; flag=1; end;
    if P5_100=3 then do; pvmobile=17500; flag=1; end;
    if P5_100=4 then do; pvmobile=37500; flag=1; end;
    if P5_100=5 then do; pvmobile=75000; flag=1; end;
    if P5_100=6 then do; pvmobile=175000; flag=1; end;
    if P5_100=7 then do; pvmobile=250001; flag=1; end;
end;

if P5_083=-1 or P5_093=-1 or P5_096=-1 or P5_098=-1 or P5_100=-1 then pvmobile=-1;
if P5_083=-2 or P5_093=-2 or P5_096=-2 or P5_098=-2 or P5_100=-2 then pvmobile=-2;
if P5_083=-3 or P5_093=-3 or P5_096=-3 or P5_098=-3 or P5_100=-3 then pvmobile=-3;

/*A variable indicating the value of the property if the R lives in a house */
pvhouse=0;
if P5_101=1 and P5_112 not in (-1, -2, -3) then pvhouse=P5_112;
if P5_101=1 and (P5_112 eq -1 or P5_112 eq -2 or P5_112 eq -3) then do;
    if P5_113=1 then do; pvhouse=12500; flag=1; end;
    if P5_113=2 then do; pvhouse=37500; flag=1; end;
    if P5_113=3 then do; pvhouse=75000; flag=1; end;
    if P5_113=4 then do; pvhouse=175000; flag=1; end;
    if P5_113=5 then do; pvhouse=375000; flag=1; end;
    if P5_113=6 then do; pvhouse=750000; flag=1; end;
    if P5_113=7 then do; pvhouse=1000000; flag=1; end;
end;

if P5_101=-1 or P5_113=-1 then pvhouse=-1;
if P5_101=-2 or P5_113=-2 then pvhouse=-2;
if P5_101=-3 or P5_113=-3 then pvhouse=-3;

/*A variable indicating any mortgage or land contract, and second mortgages */
mortgage=0;
if (P5_114=1 or P5_114=2) and P5_115 not in (-1, -2, -3) then mortgage=P5_115;
if (P5_114=1 or P5_114=2) and (P5_115 eq -1 or P5_115 eq -2 or P5_115 eq -3) then do;
    if P5_116=1 then do; mortgage=12500; flag=1; end;
    if P5_116=2 then do; mortgage=37500; flag=1; end;
    if P5_116=3 then do; mortgage=75000; flag=1; end;
    if P5_116=4 then do; mortgage=175000; flag=1; end;
    if P5_116=5 then do; mortgage=375000; flag=1; end;
    if P5_116=6 then do; mortgage=750000; flag=1; end;
    if P5_116=7 then do; mortgage=1000001; flag=1; end;
end;

if P5_114=-1 or P5_116=-1 then mortgage=-1;
if P5_114=-2 or P5_116=-2 then mortgage=-2;
if P5_114=-3 or P5_116=-3 then mortgage=-3;

/* If a second mortgage...*/
secondmng=0;
if P5_117=1 and P5_118 not in (-1, -2, -3) then secondmng=P5_118;

```

```

if P5_117=1 and (P5_118 eq -1 or P5_118 eq -2 or P5_118 eq -3) then do;
  if P5_119=1 then do; secondmg=2500; flag=1; end;
  if P5_119=2 then do; secondmg=7500; flag=1; end;
  if P5_119=3 then do; secondmg=17500; flag=1; end;
  if P5_119=4 then do; secondmg=37500; flag=1; end;
  if P5_119=5 then do; secondmg=75000; flag=1; end;
  if P5_119=6 then do; secondmg=175000; flag=1; end;
  if P5_119=7 then do; secondmg=250001; flag=1; end;
  end;
if P5_117=-1 or P5_119=-1 then secondmg=-1;
if P5_117=-2 or P5_119=-2 then secondmg=-2;
if P5_117=-3 or P5_119=-3 then secondmg=-3;

```

```

/*A variable indicating whether the R and S own a business, partnership or professional practice */
ownbuss=0;
if P5_120=1 and P5_121 not in (-1, -2, -3) then ownbuss=P5_121;
if P5_120=1 and (P5_121 eq -1 or P5_121 eq -2 or P5_121 eq -3) then do;
  if P5_122=1 then do; ownbuss=12500; flag=1; end;
  if P5_122=2 then do; ownbuss=37500; flag=1; end;
  if P5_122=3 then do; ownbuss=75000; flag=1; end;
  if P5_122=4 then do; ownbuss=175000; flag=1; end;
  if P5_122=5 then do; ownbuss=375000; flag=1; end;
  if P5_122=6 then do; ownbuss=750000; flag=1; end;
  if P5_122=7 then do; ownbuss=1000001; flag=1; end;
  end;
if P5_120=-1 or P5_122=-1 then ownbuss=-1;
if P5_120=-2 or P5_122=-2 then ownbuss=-2;
if P5_120=-3 or P5_122=-3 then ownbuss=-3;

```

```

/*A variable indicating second homes, real estate, partnership, or money owed to R/S on land contract or mortgage */
realesta=0;
if P5_124=1 and P5_125 not in (-1, -2, -3) then realesta=P5_125;
if P5_124=1 and (P5_125 eq -1 or P5_125 eq -2 or P5_125 eq -3) then do;
  if P5_126=1 then do; realesta=12500; flag=1; end;
  if P5_126=2 then do; realesta=37500; flag=1; end;
  if P5_126=3 then do; realesta=75000; flag=1; end;
  if P5_126=4 then do; realesta=175000; flag=1; end;
  if P5_126=5 then do; realesta=375000; flag=1; end;
  if P5_126=6 then do; realesta=750000; flag=1; end;
  if P5_126=7 then do; realesta=1000001; flag=1; end;
  end;
if P5_124=-1 or P5_126=-1 then realesta=-1;
if P5_124=-2 or P5_126=-2 then realesta=-2;
if P5_124=-3 or P5_126=-3 then realesta=-3;

```

```

/*A variable indicating educational IRA accounts or other prepaid tuition savings accounts */
tuitions=0;
if P5_127=1 and P5_128 not in (-1, -2, -3) then tuitions=P5_128;
if P5_127=1 and (P5_128 eq -1 or P5_128 eq -2 or P5_128 eq -3) then do;
  if P5_129=1 then do; tuitions=2500; flag=1; end;
  if P5_129=2 then do; tuitions=7500; flag=1; end;
  if P5_129=3 then do; tuitions=17500; flag=1; end;
  if P5_129=4 then do; tuitions=37500; flag=1; end;
  if P5_129=5 then do; tuitions=75000; flag=1; end;
  if P5_129=6 then do; tuitions=175000; flag=1; end;
  if P5_129=7 then do; tuitions=250001; flag=1; end;
  end;

```

```

if P5_127=-1 or P5_129=-1 then tuitions=-1;
if P5_127=-2 or P5_129=-2 then tuitions=-2;
if P5_127=-3 or P5_129=-3 then tuitions=-3;

/*A variable indicating whether the R and S have any retirement or pension plans, such as 401K's */
retirepl=0;
if P5_130=1 and P5_131 not in (-1, -2, -3) then retirepl=P5_131;
if P5_130=1 and (P5_131 eq -1 or P5_131 eq -2 or P5_131 eq -3) then do;
    if P5_132=1 then do; retirepl=2500; flag=1; end;
    if P5_132=2 then do; retirepl=7500; flag=1; end;
    if P5_132=3 then do; retirepl=17500; flag=1; end;
    if P5_132=4 then do; retirepl=37500; flag=1; end;
    if P5_132=5 then do; retirepl=75000; flag=1; end;
    if P5_132=6 then do; retirepl=175000; flag=1; end;
    if P5_132=7 then do; retirepl=250001; flag=1; end;
end;
if P5_130=-1 or P5_132=-1 then retirepl=-1;
if P5_130=-2 or P5_132=-2 then retirepl=-2;
if P5_130=-3 or P5_132=-3 then retirepl=-3;

/*A variable indicating whether the R and S have any other savings in investment trusts, etc */
othsav1=0;
if P5_133=1 and P5_134 not in (-1, -2, -3) then othsav1=P5_134;
if P5_133=1 and (P5_134 eq -1 or P5_134 eq -2 or P5_134 eq -3) then do;
    if P5_135=1 then do; othsav1=2500; flag=1; end;
    if P5_135=2 then do; othsav1=7500; flag=1; end;
    if P5_135=3 then do; othsav1=17500; flag=1; end;
    if P5_135=4 then do; othsav1=37500; flag=1; end;
    if P5_135=5 then do; othsav1=75000; flag=1; end;
    if P5_135=6 then do; othsav1=175000; flag=1; end;
    if P5_135=7 then do; othsav1=250001; flag=1; end;
end;
if P5_133=-1 or P5_135=-1 then othsav1=-1;
if P5_133=-2 or P5_135=-2 then othsav1=-2;
if P5_133=-3 or P5_135=-3 then othsav1=-3;

/*A variable indicating whether the R and S have any other savings in CD's, Treasury bills, bonds, etc */
othsav2=0;
if P5_136=1 and P5_137 not in (-1, -2, -3) then othsav2=P5_137;
if P5_136=1 and (P5_137 eq -1 or P5_137 eq -2 or P5_137 eq -3) then do;
    if P5_138=1 then do; othsav2=2500; flag=1; end;
    if P5_138=2 then do; othsav2=7500; flag=1; end;
    if P5_138=3 then do; othsav2=17500; flag=1; end;
    if P5_138=4 then do; othsav2=37500; flag=1; end;
    if P5_138=5 then do; othsav2=75000; flag=1; end;
    if P5_138=6 then do; othsav2=175000; flag=1; end;
    if P5_138=7 then do; othsav2=250001; flag=1; end;
end;
if P5_136=-1 or P5_138=-1 then othsav2=-1;
if P5_136=-2 or P5_138=-2 then othsav2=-2;
if P5_136=-3 or P5_138=-3 then othsav2=-3;

/*A variable indicating whether the R and S have any other savings in mutual funds */
mutfunds=0;
if P5_139=1 and P5_140 not in (-1, -2, -3) then mutfunds=P5_140;
if P5_139=1 and (P5_140 eq -1 or P5_140 eq -2 or P5_140 eq -3) then do;
    if P5_141=1 then do; mutfunds=2500; flag=1; end;

```

```

if P5_141=2 then do; mutfunds=7500; flag=1; end;
if P5_141=3 then do; mutfunds=17500; flag=1; end;
if P5_141=4 then do; mutfunds=37500; flag=1; end;
if P5_141=5 then do; mutfunds=75000; flag=1; end;
if P5_141=6 then do; mutfunds=175000; flag=1; end;
if P5_141=7 then do; mutfunds=250001; flag=1; end;
end;

if P5_139=-1 or P5_141=-1 then mutfunds=-1;
if P5_139=-2 or P5_141=-2 then mutfunds=-2;
if P5_139=-3 or P5_141=-3 then mutfunds=-3;

/*A variable indicating the current market value of the R and S vehicles */
pvcars=0;
if P5_142=1 and P5_143 not in (-1, -2, -3) then pvcars=P5_143;
if P5_142=1 and (P5_143 eq -1 or P5_143 eq -2 or P5_143 eq -3) then do;
    if P5_144=1 then do; pvcars=500; flag=1; end;
    if P5_144=2 then do; pvcars=1750; flag=1; end;
    if P5_144=3 then do; pvcars=3750; flag=1; end;
    if P5_144=4 then do; pvcars=7500; flag=1; end;
    if P5_144=5 then do; pvcars=17500; flag=1; end;
    if P5_144=6 then do; pvcars=37500; flag=1; end;
    if P5_144=7 then do; pvcars=50001; flag=1; end;
end;
if P5_142=-1 or P5_144=-1 then pvcars=-1;
if P5_142=-2 or P5_144=-2 then pvcars=-2;
if P5_142=-3 or P5_144=-3 then pvcars=-3;

/*A variable indicating how much R and S owe on the vehicles */
owecar=0;
if P5_142=1 and P5_145 not in (-1, -2, -3) then owecar=P5_145;
if P5_142=1 and (P5_145 eq -1 or p5_145 eq -2 or p5_145 eq -3) then do;
    if P5_146=1 then do; owecar=500; flag=1; end;
    if P5_146=2 then do; owecar=1750; flag=1; end;
    if P5_146=3 then do; owecar=3750; flag=1; end;
    if P5_146=4 then do; owecar=7500; flag=1; end;
    if P5_146=5 then do; owecar=17500; flag=1; end;
    if P5_146=6 then do; owecar=37500; flag=1; end;
    if P5_146=7 then do; owecar=50001; flag=1; end;
end;
if P5_142=-1 or P5_146=-1 then owecar=-1;
if P5_142=-2 or P5_146=-2 then owecar=-2;
if P5_142=-3 or P5_146=-3 then owecar=-3;

/*A variable indicating the value of furniture */
pvfurnit=0;
if P5_147 ge 1 and P5_147=1 then do; pvfurnit=500; flag=1; end;
if P5_147 ge 1 and P5_147=2 then do; pvfurnit=1750; flag=1; end;
if P5_147 ge 1 and P5_147=3 then do; pvfurnit=3750; flag=1; end;
if P5_147 ge 1 and P5_147=4 then do; pvfurnit=7500; flag=1; end;
if P5_147 ge 1 and P5_147=5 then do; pvfurnit=17500; flag=1; end;
if P5_147 ge 1 and P5_147=6 then do; pvfurnit=37500; flag=1; end;
if P5_147 ge 1 and P5_147=7 then do; pvfurnit=50001; flag=1; end;
if P5_147=-1 then pvfurnit=-1;
if P5_147=-2 then pvfurnit=-2;
if P5_147=-3 then pvfurnit=-3;

/*A variable indicating any other assets owed to R and S by others */

```

```

othasset=0;
if P5_148=1 and P5_149 not in (-1, -2, -3) then othasset=P5_149;
if P5_148=1 and (P5_149 eq -1 or P5_149 eq -2 or P5_149 eq -3) then do;
    if P5_150=1 then do; othasset=2500; flag=1; end;
    if P5_150=2 then do; othasset=7500; flag=1; end;
    if P5_150=3 then do; othasset=17500; flag=1; end;
    if P5_150=4 then do; othasset=37500; flag=1; end;
    if P5_150=5 then do; othasset=75000; flag=1; end;
    if P5_150=6 then do; othasset=175000; flag=1; end;
    if P5_150=7 then do; othasset=250001; flag=1; end;
    end;
if P5_148=-1 or P5_150=-1 then othasset=-1;
if P5_148=-2 or P5_150=-2 then othasset=-2;
if P5_148=-3 or P5_150=-3 then othasset=-3;

/*A variable indicating any other debts R and S might have, such as:educational loans and any other debts */
eduloans=0;
if P5_151=1 and P5_152 not in (-1, -2, -3) then eduloans=P5_152;
if P5_151=1 and (P5_152 eq -1 or P5_152 eq -2 or P5_152 eq -3) then do;
    if P5_153=1 then do; eduloans=500; flag=1; end;
    if P5_153=2 then do; eduloans=1750; flag=1; end;
    if P5_153=3 then do; eduloans=3750; flag=1; end;
    if P5_153=4 then do; eduloans=7500; flag=1; end;
    if P5_153=5 then do; eduloans=17500; flag=1; end;
    if P5_153=6 then do; eduloans=37500; flag=1; end;
    if P5_153=7 then do; eduloans=50001; flag=1; end;
    end;
if P5_151=-1 or P5_153=-1 then eduloans=-1;
if P5_151=-2 or P5_153=-2 then eduloans=-2;
if P5_151=-3 or P5_153=-3 then eduloans=-3;

/* Any other debts...*/
othdebts=0;
if P5_154=1 and P5_155 not in (-1, -2, -3) then othdebts=P5_155;
if P5_154=1 and (P5_155 eq -1 or P5_155 eq -2 or P5_155 eq -3) then do;
    if P5_156=1 then do; othdebts=500; flag=1; end;
    if P5_156=2 then do; othdebts=1750; flag=1; end;
    if P5_156=3 then do; othdebts=3750; flag=1; end;
    if P5_156=4 then do; othdebts=7500; flag=1; end;
    if P5_156=5 then do; othdebts=17500; flag=1; end;
    if P5_156=6 then do; othdebts=37500; flag=1; end;
    if P5_156=7 then do; othdebts=50001; flag=1; end;
    end;
if P5_154=-1 or P5_156=-1 then othdebts=-1;
if P5_154=-2 or P5_156=-2 then othdebts=-2;
if P5_154=-3 or P5_156=-3 then othdebts=-3;

/* Calculate the household net worth according to the parent or: hhworthp=assets-liabilities */
hhworthp=-4;
hhworthp=(pvranrch + pvmobile + pvhouse + ownbuss + realesta + tuitions + retirepl + othsav1 + othsav2 + mutfunds
        + pvcars + pfurnit + othasset)-(mortgage + secondmg + owecar + eduloans + othdebts);
if pvranrch=-1 or pvmobile=-1 or pvhouse=-1 or ownbuss=-1 or realesta=-1 or tuitions=-1 or retirepl=-1 or othsav1=-1
    or othsav2=-1 or mutfunds=-1 or pvcars=-1 or pfurnit=-1 or othasset=-1 or mortgage=-1 or secondmg=-1
    or owecar=-1 or eduloans=-1 or othdebts=-1 then hhworthp=-1;
if pvranrch=-2 or pvmobile=-2 or pvhouse=-2 or ownbuss=-2 or realesta=-2 or tuitions=-2 or retirepl=-2 or othsav1=-2
    or othsav2=-2 or mutfunds=-2 or pvcars=-2 or pfurnit=-2 or othasset=-2 or mortgage=-2 or secondmg=-2
    or owecar=-2 or eduloans=-2 or othdebts=-2 then hhworthp=-2;

```

Appendix 5: Income and Assets Variable Creation

```

if pvranch=-3 or pvmobile=-3 or pvhouse=-3 or ownbuss=-3 or realesta=-3 or tuitions=-3 or retirepl=-3 or othsav1=-3
or othsav2=-3 or mutfunds=-3 or pvcars=-3 or pfurnit=-3 or othasset=-3 or mortgage=-3 or secondmg=-3
or owecar=-3 or eduloans=-3 or othdebts=-3 then hhworthp=-3;
if pnocid=-4 then hhworthp=-4;

/* Create gross hh income according to the parent*/
groshhIp=-4;
do I=1 to 9;
if famI(I) ge 0 then do;
    groshhIp=(nfarmwgR + farmwgR+nfarmwgS + farmwgS + interest + AFDCADC + SSI + childsup + rentalI +
    famI01 + famI02 + famI03 + famI04 + famI05 + famI06 + famI07 + famI08 + famI09);
end;
end;
if nfarmwgR=-1 or farmwgR=-1 or nfarmwgS=-1 or farmwgS=-1 or interest=-1 or AFDCADC=-1 or SSI=-1 or
    childsup=-1 or rentalI=-1 or famI01=-1 or famI02=-1 or famI03=-1 or famI04=-1 or famI05=-1 or
    famI06=-1 or famI07=-1 or famI08=-1 or famI09=-1 then groshhIp=-1;
if nfarmwgR=-2 or farmwgR=-2 or nfarmwgS=-2 or farmwgS=-2 or interest=-2 or AFDCADC=-2 or SSI=-2 or
    childsup=-2 or rentalI=-2 or famI01=-2 or famI02=-2 or famI03=-2 or famI04=-2 or famI05=-2 or
    famI06=-2 or famI07=-2 or famI08=-2 or famI09=-2 then groshhIp=-2;
if nfarmwgR=-3 or farmwgR=-3 or nfarmwgS=-3 or farmwgS=-3 or interest=-3 or AFDCADC=-3 or SSI=-3 or
    childsup=-3 or rentalI=-3 or famI01=-3 or famI02=-3 or famI03=-3 or famI04=-3 or famI05=-3 or
    famI06=-3 or famI07=-3 or famI08=-3 or famI09=-3 then groshhIp=-3;
if pnocid=-4 then groshhIp=-4;

```

***** SECTION 2: YOUTH HOUSEHOLD NET WORTH AND GROSS HOUSEHOLD INCOME *****

flag=0;

```

/*First, create a variable indicating net receipts from non-farm employment earned by youth (Y), such as wages
(nfarmwgY). */
nfarmwgY=0;
if (YI_1400=1 and YI_1700 not in (-1, -2, -3)) or (YI_1400=-1 and YI_1600=1 and YI_1700 not in (-1, -2, -3)) or
(YI_1400=-2 and YI_1500=1 and YI_1700 not in (-1, -2, -3)) or (YI_1400=-2 and YI_1500=-1 and
YI_1600=1 and YI_1700 not in (-1, -2, -3)) then nfarmwgY=YI_1700;
if (YI_1400=1 or (YI_1400=-1 and YI_1600=1) or (YI_1400=-2 and YI_1500=1) or (YI_1400=-2 and YI_1500=-1
and YI_1600=1) or (YI_1400=-3 and YI_1600=1) or (YI_1400=-3 and YI_1500=1) or (YI_1400=-2 and YI_1500=-3
and YI_1600=1)) and (YI_1700 eq -1 or YI_1700 eq -2 or YI_1700 eq -3) then do;
    if YI_1800=1 then do; nfarmwgY=2500; flag=1; end;
    if YI_1800=2 then do; nfarmwgY=7500; flag=1; end;
    if YI_1800=3 then do; nfarmwgY=17500; flag=1; end;
    if YI_1800=4 then do; nfarmwgY=22500; flag=1; end;
    if YI_1800=5 then do; nfarmwgY=75000; flag=1; end;
    if YI_1800=6 then do; nfarmwgY=175000; flag=1; end;
    if YI_1800=7 then do; nfarmwgY=250001; flag=1; end;
end;
if YI_1600=-1 or YI_1800=-1 then nfarmwgY=-1;
if YI_1500=-2 or YI_1800=-2 then nfarmwgY=-2;
if YI_1600=-3 or YI_1500=-3 or YI_1800=-3 then nfarmwgY=-3;

```

/* For all the questions below, the youth must be INDEPENDENT (YI_1900=1) */

```

/*Second, create a variable indicating net receipts from farm self-employment earned by the Y (farmwgY)*/
farmwgY=0;
if YI_1900=1 and YI_2000=1 and YI_2100 not in (-1, -2, -3) then farmwgY=YI_2100;
if YI_1900=1 and YI_2000=1 and (YI_2100 eq -1 or YI_2100 eq -2 or YI_2100 eq -3) then do;
    if YI_2200=1 then do; farmwgY=-2; flag=1; end;

```

```

if YI_2200=2 then do; farmwgY=2500; flag=1; end;
if YI_2200=3 then do; farmwgY=7500; flag=1; end;
if YI_2200=4 then do; farmwgY=17500; flag=1; end;
if YI_2200=5 then do; farmwgY=37500; flag=1; end;
if YI_2200=6 then do; farmwgY=75000; flag=1; end;
if YI_2200=7 then do; farmwgY=175000; flag=1; end;
if YI_2200=8 then do; farmwgY=250001; flag=1; end;
end;

if YI_2000=-1 or YI_2200=-1 then farmwgY=-1;
if YI_2000=-2 or YI_2200=-2 then farmwgY=-2;
if YI_2000=-3 or YI_2200=-3 then farmwgY=-3;

/*Third, create the above variables for the event the Y has a spouse/partner: nfarmwgP and farmwgP */
nfarmwgP=0;
if YI_1900=1 then do;
if (YI_2300=1 and YI_2400=1 and YI_2600 not in (-1, -2, -3)) or (YI_2300=1 and YI_2400=-1 and YI_2500=1 and
    YI_2600 not in (-1, -2, -3)) then nfarmwgP=YI_2600;
if (YI_2300=1 and YI_2400=1 and (YI_2600 eq -1 or YI_2600 eq -2 or YI_2600 eq -3)) or (YI_2300=1 and
    YI_2400=-1 and YI_2500=1 and (YI_2600 eq -1 or YI_2600 eq -2 or YI_2600 eq -3)) then do;
    if YI_2700=1 then do; nfarmwgP=2500; flag=1; end;
    if YI_2700=2 then do; nfarmwgP=7500; flag=1; end;
    if YI_2700=3 then do; nfarmwgP=17500; flag=1; end;
    if YI_2700=4 then do; nfarmwgP=37500; flag=1; end;
    if YI_2700=5 then do; nfarmwgP=75000; flag=1; end;
    if YI_2700=6 then do; nfarmwgP=175000; flag=1; end;
    if YI_2700=7 then do; nfarmwgP=250001; flag=1; end;
end;

if YI_2300=-1 or YI_2500=-1 or YI_2700=-1 then nfarmwgP=-1;
if YI_2300=-2 or YI_2400=-2 or YI_2700=-2 then nfarmwgP=-2;
if YI_2300=-3 or YI_2400=-3 or YI_2500=-3 or YI_2700=-3 then nfarmwgP=-3;
end;

farmwgP=0;
if YI_1900=1 then do;
if YI_2900=1 and YI_3000 not in (-1, -2, -3) then farmwgP=YI_3000;
if YI_2900=1 and (YI_3000 eq -1 or YI_3000 eq -2 or YI_3000 eq -3) then do;
    if YI_3100=1 then do; farmwgP=-2; flag=1; end;
    if YI_3100=2 then do; farmwgP=2500; flag=1; end;
    if YI_3100=3 then do; farmwgP=7500; flag=1; end;
    if YI_3100=4 then do; farmwgP=17500; flag=1; end;
    if YI_3100=5 then do; farmwgP=37500; flag=1; end;
    if YI_3100=6 then do; farmwgP=75000; flag=1; end;
    if YI_3100=7 then do; farmwgP=175000; flag=1; end;
    if YI_3100=8 then do; farmwgP=250001; flag=1; end;
end;

if YI_2300=-1 or YI_2900=-1 or YI_3100=-1 then farmwgP=-1;
if YI_2300=-2 or YI_2900=-2 or YI_3100=-2 then farmwgP=-2;
if YI_2300=-3 or YI_2900=-3 or YI_3100=-3 then farmwgP=-3;
end;

/* Create a variable indicating whether they collected any child support (childsuY) */
childsuY=0;
if YI_1900=1 then do;
if YI_4000=1 and YI_4100 not in (-1, -2, -3) then childsuY=YI_4100;
if YI_4000=1 and (YI_4100 eq -1 or YI_4100 eq -2 or YI_4100 eq -3) then do;
    if YI_4200=1 then do; childsuY=500; flag=1; end;
    if YI_4200=2 then do; childsuY=1750; flag=1; end;

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if YI_4200=3 then do; childsuY=3750; flag=1; end;
if YI_4200=4 then do; childsuY=7500; flag=1; end;
if YI_4200=5 then do; childsuY=17500; flag=1; end;
if YI_4200=6 then do; childsuY=37500; flag=1; end;
if YI_4200=7 then do; childsuY=50001; flag=1; end;
end;

if YI_4000=-1 or YI_4200=-1 then childsuY=-1;
if YI_4000=-2 or YI_4200=-2 then childsuY=-2;
if YI_4000=-3 or YI_4200=-3 then childsuY=-3;
end;

/* Create a variable indicating the amount of interests received by the youth (Y) and partner/spouse */
interesY=0;
if YI_1900=1 then do;
if YI_4300=1 and YI_4400 not in (-1, -2, -3) then interesY=YI_4400;
if YI_4300=1 and (YI_4400 eq -1 or YI_4400 eq -2 or YI_4400 eq -3) then do;
    if YI_4500=1 then do; interesY=250; flag=1; end;
    if YI_4500=2 then do; interesY=750; flag=1; end;
    if YI_4500=3 then do; interesY=1750; flag=1; end;
    if YI_4500=4 then do; interesY=3750; flag=1; end;
    if YI_4500=5 then do; interesY=6250; flag=1; end;
    if YI_4500=6 then do; interesY=8750; flag=1; end;
    if YI_4500=7 then do; interesY=10001; flag=1; end;
end;
if YI_4300=-1 or YI_4500=-1 then interesY=-1;
if YI_4300=-2 or YI_4500=-2 then interesY=-2;
if YI_4300=-3 or YI_4500=-3 then interesY=-3;
end;

/* Create a variable indicating whether they collected any dividends from stocks and mutual funds */
dividend=0;
if YI_1900=1 then do;
if YI_4600=1 and YI_4700 not in (-1, -2, -3) then dividend=YI_4700;
if YI_4600=1 and (YI_4700 eq -1 or YI_4700 eq -2 or YI_4700 eq -3) then do;
    if YI_4800=1 then do; dividend=250; flag=1; end;
    if YI_4800=2 then do; dividend=750; flag=1; end;
    if YI_4800=3 then do; dividend=1750; flag=1; end;
    if YI_4800=4 then do; dividend=3750; flag=1; end;
    if YI_4800=5 then do; dividend=6250; flag=1; end;
    if YI_4800=6 then do; dividend=8750; flag=1; end;
    if YI_4800=7 then do; dividend=10001; flag=1; end;
end;
if YI_4600=-1 or YI_4800=-1 then dividend=-1;
if YI_4600=-2 or YI_4800=-2 then dividend=-2;
if YI_4600=-3 or YI_4800=-3 then dividend=-3;
end;

/* Create a variable indicating any rental income */
rentalIY=0;
if YI_1900=1 then do;
if YI_4900=1 and YI_5000 not in (-1, -2, -3) then rentalIY=YI_5000;
if YI_4900=1 and (YI_5000 eq -1 or YI_5000 eq -2 or YI_5000 eq -3) then do;
    if YI_5100=1 then do; rentalIY=500; flag=1; end;
    if YI_5100=2 then do; rentalIY=1750; flag=1; end;
    if YI_5100=3 then do; rentalIY=3750; flag=1; end;
    if YI_5100=4 then do; rentalIY=7500; flag=1; end;
    if YI_5100=5 then do; rentalIY=17500; flag=1; end;
end;

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if YI_5100=6 then do; rentalIY=37500; flag=1; end;
if YI_5100=7 then do; rentalIY=50001; flag=1; end;
end;
if YI_4900=-1 or YI_5100=-1 then rentalIY=-1;
if YI_4900=-2 or YI_5100=-2 then rentalIY=-2;
if YI_4900=-3 or YI_5100=-3 then rentalIY=-3;
end;

/* next a variable indicating whether they received any property/money from estates, trusts, annuities, inheritances */
estatesY=0;
if YI_1900=1 then do;
if YI_5200=1 and YI_5300 not in (-1, -2, -3) then estatesY=YI_5300;
if YI_5200=1 and (YI_5300 eq -1 or YI_5300 eq -2 or YI_5300 eq -3) then do;
    if YI_5400=1 then do; estatesY=2500; flag=1; end;
    if YI_5400=2 then do; estatesY=7500; flag=1; end;
    if YI_5400=3 then do; estatesY=17500; flag=1; end;
    if YI_5400=4 then do; estatesY=37500; flag=1; end;
    if YI_5400=5 then do; estatesY=75000; flag=1; end;
    if YI_5400=6 then do; estatesY=175000; flag=1; end;
    if YI_5400=7 then do; estatesY=250001; flag=1; end;
    end;
if YI_5200=-1 or YI_5400=-1 then estatesY=-1;
if YI_5200=-2 or YI_5400=-2 then estatesY=-2;
if YI_5200=-3 or YI_5400=-3 then estatesY=-3;
end;

/* Now create a variable indicating any cash or money other than allowances parents might have given the youth if
he/she still lives with them (INCLUDED IN THE INCOME) */
allowpar=0;
if YI_1900=1 and YI_5600=1 then do;
if YI_5700=1 and YI_5800 not in (-1, -2, -3) then allowpar=YI_5800;
if YI_5700=1 and (YI_5800 eq -1 or YI_5800 eq -2 or YI_5800 eq -3) then do;
    if YI_5900=1 then do; allowpar=250; flag=1; end;
    if YI_5900=2 then do; allowpar=750; flag=1; end;
    if YI_5900=3 then do; allowpar=1750; flag=1; end;
    if YI_5900=4 then do; allowpar=3750; flag=1; end;
    if YI_5900=5 then do; allowpar=6250; flag=1; end;
    if YI_5900=6 then do; allowpar=8750; flag=1; end;
    if YI_5900=7 then do; allowpar=10001; flag=1; end;
    end;
if YI_1900=0 or YI_5700=-4 then allowpar=-4;
if YI_5700=-1 or YI_5900=-1 then allowpar=-1;
if YI_5700=-2 or YI_5900=-2 then allowpar=-2;
if YI_5700=-3 or YI_5900=-3 then allowpar=-3;
end;

/* If the youth lived with the parents during the previous year and paid for room and board...*/
roomyear=0;
if YI_1900=1 and YI_5600=1 then do;
if YI_6100=1 and YI_6200 not in (-1, -2, -3) then do;
    if YI_6300=1 then roomyear=YI_6200*52;
    if YI_6300=2 then roomyear=YI_6200*26;
    if YI_6300=3 then roomyear=YI_6200*12;
    if YI_6300=4 then roomyear=YI_6200*2;
    if YI_6300=5 then roomyear=YI_6200;
    if YI_6300=6 then do; roomyear=YI_6200; flag=1; end;
    if YI_6300=7 then do; roomyear=YI_6200; flag=1; end;
end;

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        end;
if YI_6100=-1 or YI_6200=-1 or YI_6300=-1 then roomyear=-1;
if YI_6100=-2 or YI_6200=-2 or YI_6300=-2 then roomyear=-2;
if YI_6100=-3 or YI_6200=-3 or YI_6300=-3 then roomyear=-3;
end;

/* Any other payments to your parents?, if the youth lived with them during the previous year */
othpaypa=0;
if YI_5600=1 then do;
if YI_1900=1 and YI_6100=0 and YI_6310=1 then othpaypa=YI_6320;
if YI_1900=0 or YI_6310=1 or YI_6320=-1 then othpaypa=-4;
if YI_6310=-1 or YI_6320=-1 then othpaypa=-1;
if YI_6310=-2 or YI_6320=-2 then othpaypa=-2;
if YI_6310=-3 or YI_6320=-3 then othpaypa=-3;
end;

/* If living with mother/female guardian, did R receive any money from her? (incl. in youth income definition) */
allowmot=0;
if YI_1900=1 and YI_6400=1 then do;
if YI_6500=1 and YI_6600 not in (-1, -2, -3) then allowmot=YI_6600;
if YI_6500=1 and (YI_6600 eq -1 or YI_6600 eq -2 or YI_6600 eq -3) then do;
    if YI_6700=1 then do; allowmot=250; flag=1; end;
    if YI_6700=2 then do; allowmot=750; flag=1; end;
    if YI_6700=3 then do; allowmot=1750; flag=1; end;
    if YI_6700=4 then do; allowmot=3750; flag=1; end;
    if YI_6700=5 then do; allowmot=7500; flag=1; end;
    if YI_6700=6 then do; allowmot=8750; flag=1; end;
    if YI_6700=7 then do; allowmot=10001; flag=1; end;
end;
if YI_6500=-1 or YI_6700=-1 then allowmot=-1;
if YI_6500=-2 or YI_6700=-2 then allowmot=-2;
if YI_6500=-3 or YI_6700=-3 then allowmot=-3;
end;

/* If living with the mother or female guardian but rather made payments to this person...*/
othpaymo=0;
if YI_6400=1 then do;
if YI_1900=1 and YI_6800=1 then othpaymo=YI_6900;
if YI_6800=-1 or YI_6900=-1 then othpaymo=-1;
if YI_6800=-2 or YI_6900=-2 then othpaymo=-2;
if YI_6800=-3 or YI_6900=-3 then othpaymo=-3;
end;

/* If lived with the mother or female guardian and made room and board payments to her...*/
yroommot=0;
if YI_1900=1 and YI_6400=1 then do;
if YI_6910=1 and YI_6920=1 and YI_6940=1 then yroommot=YI_6930*52;
if YI_6910=1 and YI_6920=1 and YI_6940=2 then yroommot=YI_6930*26;
if YI_6910=1 and YI_6920=1 and YI_6940=3 then yroommot=YI_6930*12;
if YI_6910=1 and YI_6920=1 and YI_6940=4 then yroommot=YI_6930*2;
if YI_6910=1 and YI_6920=1 and YI_6940=5 then yroommot=YI_6930;
if YI_6910=1 and YI_6920=1 and YI_6940=6 then do; yroommot=YI_6930; flag=1; end;
if YI_6910=1 and YI_6920=1 and YI_6940=7 then do; yroommot=YI_6930; flag=1; end;
if YI_6910=-1 or YI_6920=-1 or YI_6930=-1 or YI_6940=-1 then yroommot=-1;
if YI_6910=-2 or YI_6920=-2 or YI_6930=-2 or YI_6940=-2 then yroommot=-2;
if YI_6910=-3 or YI_6920=-3 or YI_6930=-3 or YI_6940=-3 then yroommot=-3;
end;

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/* If the youth lived with the father or male guardian and received any cash or money other than allowances from
him (INCLUDED IN THE YOUTH INCOME) */
allowfat=0;
if YI_1900=1 then do;
if YI_7000=1 and YI_7100=1 and YI_7200 not in (-1, -2, -3) then allowfat=YI_7200;
if YI_7000=1 and YI_7100=1 and (YI_7200 eq -1 or YI_7200 eq -2 or YI_7200 eq -3) then do;
    if YI_7300=1 then do; allowfat=250; flag=1; end;
    if YI_7300=2 then do; allowfat=750; flag=1; end;
    if YI_7300=3 then do; allowfat=1750; flag=1; end;
    if YI_7300=4 then do; allowfat=3750; flag=1; end;
    if YI_7300=5 then do; allowfat=6250; flag=1; end;
    if YI_7300=6 then do; allowfat=8750; flag=1; end;
    if YI_7300=7 then do; allowfat=10001; flag=1; end;
end;
if YI_7100=-1 or YI_7300=-1 then allowfat=-1;
if YI_7100=-2 or YI_7300=-2 then allowfat=-2;
if YI_7100=-3 or YI_7300=-3 then allowfat=-3;
end;

/* If the youth lived with the father or male guardian but rather paid him...*/
othpayfa=0;
if YI_1900=1 and YI_7000=1 and YI_7400=1 then othpayfa=YI_7500;
if YI_7400=-1 or YI_7500=-1 then othpayfa=-1;
if YI_7400=-2 or YI_7500=-2 then othpayfa=-2;
if YI_7400=-3 or YI_7500=-3 then othpayfa=-3;

/* If the youth lived with the father or male guardian and paid him for room and board */
yroomfat=0;
if YI_1900=1 and YI_7000=1 then do;
if YI_7520=1 and YI_7540=1 then yroomfat=YI_7530*52;
if YI_7520=1 and YI_7540=2 then yroomfat=YI_7530*26;
if YI_7520=1 and YI_7540=3 then yroomfat=YI_7530*12;
if YI_7520=1 and YI_7540=4 then yroomfat=YI_7530*2;
if YI_7520=1 and YI_7540=5 then yroomfat=YI_7530;
if YI_7520=1 and YI_7540=6 then do; yroomfat=YI_7530; flag=1; end;
if YI_7520=1 and YI_7540=7 then do; yroomfat=YI_7530; flag=1; end;
if YI_7520=-1 or YI_7540=-1 then yroomfat=-1;
if YI_7520=-2 or YI_7540=-2 then yroomfat=-2;
if YI_7520=-3 or YI_7540=-3 then yroomfat=-3;
end;

/* Income received by the youth from other sources: SS payments, pension and retirement income, alimony,
payments from insurance policies, etc...? */
pensionY=0;
if YI_1900=1 then do;
if YI_7600=1 and YI_7700 not in (-1, -2, -3) then pensionY=YI_7700;
if YI_7600=1 and (YI_7700 eq -1 or YI_7700 eq -2 or YI_7700 eq -3) then do;
    if YI_7800=1 then do; pensionY=500; flag=1; end;
    if YI_7800=2 then do; pensionY=1750; flag=1; end;
    if YI_7800=3 then do; pensionY=3750; flag=1; end;
    if YI_7800=4 then do; pensionY=7500; flag=1; end;
    if YI_7800=5 then do; pensionY=17500; flag=1; end;
    if YI_7800=6 then do; pensionY=37500; flag=1; end;
    if YI_7800=7 then do; pensionY=50001; flag=1; end;
end;
if YI_7600=-1 or YI_7800=-1 then pensionY=-1;

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if YI_7600=-2 or YI_7800=-2 then pensionY=-2;
if YI_7600=-3 or YI_7800=-3 then pensionY=-3;
end;

/* For EVERYONE, DEPENDENT OR INDEPENDENT, allowances received by the youth from his/her family
(NOT INCLUDED IN THE INCOME DEFINITION OF THE YOUTH) */
yfaallow=0;
if YI_8100=1 and YI_8200 not in (0, -1, -2, -3) then do;
    if YI_8300=1 then yfaallow=YI_8200*52;
    if YI_8300=2 then yfaallow=YI_8200*12;
    if YI_8300=3 then do; yfaallow=YI_8200; flag=1; end;
    end;
if YI_8100=-1 or YI_8200=-1 or YI_8300=-1 then yfaallow=-1;
if YI_8100=-2 or YI_8200=-2 or YI_8300=-2 then yfaallow=-2;
if YI_8100=-3 or YI_8200=-3 or YI_8300=-3 then yfaallow=-3;

/* Now a few more questions regarding income if the individual is INDEPENDENT (YI_8500=1) OR 14 YEARS
OF AGE OR OLDER (YI_8400=1) */

/* If the youth lived with the father, the father's income */
faincome=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_8600=1 and YI_8700=1 and YI_8800 not in (-1, -2, -3) then faincome=YI_8800;
if YI_8600=1 and YI_8700=1 and (YI_8800 eq -1 or YI_8800 eq -2 or YI_8800 eq -3) then do;
    if YI_8900=1 then do; faincome=2500; flag=1; end;
    if YI_8900=2 then do; faincome=7500; flag=1; end;
    if YI_8900=3 then do; faincome=17500; flag=1; end;
    if YI_8900=4 then do; faincome=37500; flag=1; end;
    if YI_8900=5 then do; faincome=75000; flag=1; end;
    if YI_8900=6 then do; faincome=175000; flag=1; end;
    if YI_8900=7 then do; faincome=250001; flag=1; end;
    end;
if YI_8600=-1 or YI_8700=-1 or YI_8900=-1 then faincome=-1;
if YI_8600=-2 or YI_8700=-2 or YI_8900=-2 then faincome=-2;
if YI_8600=-3 or YI_8700=-3 or YI_8900=-3 then faincome=-3;
end;

/* If the youth lived with the mother, the mother's income */
maincome=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_9100=1 and YI_9200=1 and YI_9300 not in (-1, -2, -3) then maincome=YI_9300;
if YI_9100=1 and YI_9200=1 and (YI_9300 eq -1 or YI_9300 eq -2 or YI_9300 eq -3) then do;
    if YI_9400=1 then do; maincome=2500; flag=1; end;
    if YI_9400=2 then do; maincome=7500; flag=1; end;
    if YI_9400=3 then do; maincome=17500; flag=1; end;
    if YI_9400=4 then do; maincome=37500; flag=1; end;
    if YI_9400=5 then do; maincome=75000; flag=1; end;
    if YI_9400=6 then do; maincome=175000; flag=1; end;
    if YI_9400=7 then do; maincome=250001; flag=1; end;
    end;
if YI_9100=-1 or YI_9200=-1 or YI_9400=-1 then maincome=-1;
if YI_9100=-2 or YI_9200=-2 or YI_9400=-2 then maincome=-2;
if YI_9100=-3 or YI_9200=-3 or YI_9400=-3 then maincome=-3;
end;

/* If the youth lives with the male guardian */
mgincome=0;

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if YI_8400=1 or YI_8500=1 then do;
if YI_9600=1 and YI_9700=1 and YI_9800 not in (-1, -2, -3) then mgincome=YI_9800;
if YI_9600=1 and YI_9700=1 and (YI_9800 eq -1 or YI_9800 eq -2 or YI_9800 eq -3) then do;
    if YI_9900=1 then do; mgincome=2500; flag=1; end;
    if YI_9900=2 then do; mgincome=7500; flag=1; end;
    if YI_9900=3 then do; mgincome=17500; flag=1; end;
    if YI_9900=4 then do; mgincome=37500; flag=1; end;
    if YI_9900=5 then do; mgincome=75000; flag=1; end;
    if YI_9900=6 then do; mgincome=175000; flag=1; end;
    if YI_9900=7 then do; mgincome=250001; flag=1; end;
    end;
if YI_9600=-1 or YI_9700=-1 or YI_9900=-1 then mgincome=-1;
if YI_9600=-2 or YI_9700=-2 or YI_9900=-2 then mgincome=-2;
if YI_9600=-3 or YI_9700=-3 or YI_9900=-3 then mgincome=-3;
end;

/* If the youth lives with female guardian */
fgincome=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_10100=1 and YI_10200=1 and YI_10300 not in (-1, -2, -3) then fgincome=YI_10300;
if YI_10100=1 and YI_10200=1 and (YI_10300 eq -1 or YI_10300 eq -2 or YI_10300 eq -3) then do;
    if YI_10400=1 then do; fgincome=2500; flag=1; end;
    if YI_10400=2 then do; fgincome=7500; flag=1; end;
    if YI_10400=3 then do; fgincome=17500; flag=1; end;
    if YI_10400=4 then do; fgincome=37500; flag=1; end;
    if YI_10400=5 then do; fgincome=75000; flag=1; end;
    if YI_10400=6 then do; fgincome=175000; flag=1; end;
    if YI_10400=7 then do; fgincome=250001; flag=1; end;
    end;
if YI_10100=-1 or YI_10200=-1 or YI_10400=-1 then fgincome=-1;
if YI_10100=-2 or YI_10200=-2 or YI_10400=-2 then fgincome=-2;
if YI_10100=-3 or YI_10200=-3 or YI_10400=-3 then fgincome=-3;
end;

/* Check for income from any household member 14 years of age or older and who hasn't been asked before */
array otfamI otfamI01 otfamI02 otfamI03 otfamI04 otfamI05 otfamI06 otfamI07 otfamI08 otfamI09;
array I11100 I111001 I111002 I111003 I111004 I111005 I111006 I111007 I111008 I111009 ;
array I11600 I116001 I116002 I116003 I111004 I116005 I116006 I116007 I116008 I116009 ;
array I11700 I117001 I117002 I117003 I117004 I117005 I117006 I117007 I117008 I117009 ;

do I=1 to 9;
otfamI(I)=0;
if (YI_8400=1 or YI_8500=1) and YI_10700=1 then do;
    if I11100(I)=0 and I11600(I) not in (-1, -2, -3, -4) then otfamI(I)=I11600(I);
    if I11100(I)=0 and (I11600(I) eq -1 or I11600(I) eq -2 or I11600(I) eq -3) then do;
        if I11700(I)=1 then do; otfamI(I)=2500; flag=1; end;
        if I11700(I)=2 then do; otfamI(I)=7500; flag=1; end;
        if I11700(I)=3 then do; otfamI(I)=17500; flag=1; end;
        if I11700(I)=4 then do; otfamI(I)=37500; flag=1; end;
        if I11700(I)=5 then do; otfamI(I)=75000; flag=1; end;
        if I11700(I)=6 then do; otfamI(I)=175000; flag=1; end;
        if I11700(I)=7 then do; otfamI(I)=250001; flag=1; end;
        end;
    if I11100(I)=-1 or I11700(I)=-1 then otfamI(I)=-1;
    if I11100(I)=-2 or I11700(I)=-2 then otfamI(I)=-2;
    if I11100(I)=-3 or I11700(I)=-3 then otfamI(I)=-3;
    end;

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end;

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/* If the youth lives on ranch or farm and owns it, the value of the ranch */
pvranchY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_12200=1 and YI_12400=1 and YI_12600 not in (-1, -2, -3) then pvranchY=YI_12600;
if YI_12200=1 and YI_12400=1 and (YI_12600 eq -1 or YI_12600 eq -2 or YI_12600 eq -3) then do;
    if YI_12700=1 then do; pvranchY=12500; flag=1; end;
    if YI_12700=2 then do; pvranchY=37500; flag=1; end;
    if YI_12700=3 then do; pvranchY=75000; flag=1; end;
    if YI_12700=4 then do; pvranchY=175000; flag=1; end;
    if YI_12700=5 then do; pvranchY=375000; flag=1; end;
    if YI_12700=6 then do; pvranchY=750000; flag=1; end;
    if YI_12700=7 then do; pvranchY=1000001; flag=1; end;
    end;
if YI_12200=1 and YI_12400=2 and YI_12800 ge 1 and YI_12900 not in (-1, -2, -3) then pvranchY=YI_12900;
if YI_12200=1 and YI_12400=2 and YI_12800 ge 1 and (YI_12900= -1 or YI_12900= -2 or YI_12900= -3) then do;
    if YI_13000=1 then do; pvranchY=12500; flag=1; end;
    if YI_13000=2 then do; pvranchY=37500; flag=1; end;
    if YI_13000=3 then do; pvranchY=75000; flag=1; end;
    if YI_13000=4 then do; pvranchY=175000; flag=1; end;
    if YI_13000=5 then do; pvranchY=375000; flag=1; end;
    if YI_13000=6 then do; pvranchY=750000; flag=1; end;
    if YI_13000=7 then do; pvranchY=1000001; flag=1; end;
    end;
if YI_12200=1 and YI_12400=2 and (YI_12800 eq -1 or YI_12800 eq -2 or YI_12800 eq -3) and YI_13100 not in
(-1, -2, -3) then pvranchY=YI_13100;
if YI_12200=1 and YI_12400=2 and (YI_12800 eq -1 or YI_12800 eq -2 or YI_12800 eq -3) and (YI_13100 eq -1
or YI_13100 eq -2 or YI_13100 eq -3) then do;
    if YI_13200=1 then do; pvranchY=12500; flag=1; end;
    if YI_13200=2 then do; pvranchY=37500; flag=1; end;
    if YI_13200=3 then do; pvranchY=75000; flag=1; end;
    if YI_13200=4 then do; pvranchY=175000; flag=1; end;
    if YI_13200=5 then do; pvranchY=375000; flag=1; end;
    if YI_13200=6 then do; pvranchY=750000; flag=1; end;
    if YI_13200=7 then do; pvranchY=1000001; flag=1; end;
    end;
if YI_12200=-1 | YI_12400=-1 | YI_12700=-1 | YI_12800=-1 | YI_13000=-1 | YI_13100=-1 then pvranch=-1;
if YI_12200=-2 | YI_12400=-2 | YI_12700=-2 | YI_12800=-2 | YI_13000=-2 | YI_13100=-2 then pvranch=-2;
if YI_12200=-3 | YI_12400=-3 | YI_12700=-3 | YI_12800=-3 | YI_13000=-3 | YI_13100=-3 then pvranch=-3;
end;

```

/ If the youth lives in a mobile home and owns it, the value of the mobile home */*

```

pvmobilY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_12300=1 and YI_13300=1 and YI_13500 not in (-1, -2, -3) then pvmobilY=YI_13500;
if YI_12300=1 and YI_13300=1 and (YI_13500 eq -1 or YI_13500 eq -2 or YI_13500 eq -3) then do;
    if YI_13600=1 then do; pvmobilY=12500; flag=1; end;
    if YI_13600=2 then do; pvmobilY=37500; flag=1; end;
    if YI_13600=3 then do; pvmobilY=75000; flag=1; end;
    if YI_13600=4 then do; pvmobilY=175000; flag=1; end;
    if YI_13600=5 then do; pvmobilY=375000; flag=1; end;
    if YI_13600=6 then do; pvmobilY=750000; flag=1; end;
    if YI_13600=7 then do; pvmobilY=1000001; flag=1; end;
    end;
if YI_12300=1 and YI_13300=2 and YI_13700 not in (-1, -2, -3) then pvmobilY=YI_13700;
if YI_12300=1 and YI_13300=2 and (YI_13700 eq -1 or YI_13700 eq -2 or YI_13700 eq -3) then do;

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if YI_13800=1 then do; pvmobilY=12500; flag=1; end;
if YI_13800=2 then do; pvmobilY=37500; flag=1; end;
if YI_13800=3 then do; pvmobilY=75000; flag=1; end;
if YI_13800=4 then do; pvmobilY=175000; flag=1; end;
if YI_13800=5 then do; pvmobilY=375000; flag=1; end;
if YI_13800=6 then do; pvmobilY=750000; flag=1; end;
if YI_13800=7 then do; pvmobilY=1000001; flag=1; end;
end;

if YI_12300=1 and YI_13300=3 and YI_14200 not in (-1, -2, -3) then pvmobilY=YI_14200;
if YI_12300=1 and YI_13300=3 and (YI_14200 eq -1 or YI_14200 eq -2 or YI_14200 eq -3) then do;
    if YI_14300=1 then do; pvmobilY=12500; flag=1; end;
    if YI_14300=2 then do; pvmobilY=37500; flag=1; end;
    if YI_14300=3 then do; pvmobilY=75000; flag=1; end;
    if YI_14300=4 then do; pvmobilY=175000; flag=1; end;
    if YI_14300=5 then do; pvmobilY=375000; flag=1; end;
    if YI_14300=6 then do; pvmobilY=750000; flag=1; end;
    if YI_14300=7 then do; pvmobilY=1000001; flag=1; end;
end;

if YI_12300=-1 | YI_12300=-1 | YI_13300=-1 | YI_13600=-1 | YI_13800=-1 | YI_14300=-1 then pvmobilY=-1;
if YI_12300=-2 | YI_12300=-2 | YI_13300=-2 | YI_13600=-2 | YI_13800=-2 | YI_14300=-2 then pvmobilY=-2;
if YI_12300=-3 | YI_12300=-3 | YI_13300=-3 | YI_13600=-3 | YI_13800=-3 | YI_14300=-3 then pvmobilY=-3;
end;

/* If the youth owns an apartment or house, its present value */
pvhomedY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_14700=1 and YI_15800 not in (-1, -2, -3) then pvhomedY=YI_15800;
if YI_14700=1 and (YI_15800 eq -1 or YI_15800 eq -2 or YI_15800 eq -3) then do;
    if YI_15900=1 then do; pvhomedY=12500; flag=1; end;
    if YI_15900=2 then do; pvhomedY=37500; flag=1; end;
    if YI_15900=3 then do; pvhomedY=75000; flag=1; end;
    if YI_15900=4 then do; pvhomedY=175000; flag=1; end;
    if YI_15900=5 then do; pvhomedY=375000; flag=1; end;
    if YI_15900=6 then do; pvhomedY=750000; flag=1; end;
    if YI_15900=7 then do; pvhomedY=1000001; flag=1; end;
end;

if YI_14700=-1 or YI_15900=-1 then pvhomedY=-1;
if YI_14700=-2 or YI_15900=-2 then pvhomedY=-2;
if YI_14700=-3 or YI_15900=-3 then pvhomedY=-3;
end;

/* Any mortgage or land contract on land or property */
mortgagY=0;
if YI_8400=1 or YI_8500=1 then do;
if (YI_16400=1 or YI_16400=2) and YI_16500 not in (-1, -2, -3) then mortgagY=YI_16500;
if (YI_16400=1 or YI_16400=2) and (YI_16500 eq -1 or YI_16500 eq -2 or YI_16500 eq -3) then do;
    if YI_16600=1 then do; mortgagY=12500; flag=1; end;
    if YI_16600=2 then do; mortgagY=37500; flag=1; end;
    if YI_16600=3 then do; mortgagY=75000; flag=1; end;
    if YI_16600=4 then do; mortgagY=175000; flag=1; end;
    if YI_16600=5 then do; mortgagY=375000; flag=1; end;
    if YI_16600=6 then do; mortgagY=750000; flag=1; end;
    if YI_16600=7 then do; mortgagY=1000001; flag=1; end;
end;

if YI_16400=-1 or YI_16600=-1 then mortgagY=-1;
if YI_16400=-2 or YI_16600=-2 then mortgagY=-2;
if YI_16400=-3 or YI_16600=-3 then mortgagY=-3;

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end;

/* Any loans to buy or build this residence */
loanowed=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_16700=1 and YI_17000 not in (-1, -2, -3) then loanowed=YI_17000;
if YI_16700=1 and (YI_17000 eq -1 or YI_17000 eq -2 or YI_17000 eq -3) then do;
    if YI_17100=1 then do; loanowed=12500; flag=1; end;
    if YI_17100=2 then do; loanowed=37500; flag=1; end;
    if YI_17100=3 then do; loanowed=75000; flag=1; end;
    if YI_17100=4 then do; loanowed=175000; flag=1; end;
    if YI_17100=5 then do; loanowed=375000; flag=1; end;
    if YI_17100=6 then do; loanowed=750000; flag=1; end;
    if YI_17100=7 then do; loanowed=1000001; flag=1; end;
    end;
if YI_16700=-1 or YI_17100=-1 then loanowed=-1;
if YI_16700=-2 or YI_17100=-2 then loanowed=-2;
if YI_16700=-3 or YI_17100=-3 then loanowed=-3;
end;

/* Any second mortgages */
secmortY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_17200=1 and YI_17300 not in (-1, -2, -3) then secmortY=YI_17300;
if YI_17200=1 and (YI_17300 eq -1 or YI_17300 eq -2 or YI_17300 eq -3) then do;
    if YI_17400=1 then do; secmortY=2500; flag=1; end;
    if YI_17400=2 then do; secmortY=7500; flag=1; end;
    if YI_17400=3 then do; secmortY=17500; flag=1; end;
    if YI_17400=4 then do; secmortY=37500; flag=1; end;
    if YI_17400=5 then do; secmortY=75000; flag=1; end;
    if YI_17400=6 then do; secmortY=175000; flag=1; end;
    if YI_17400=7 then do; secmortY=250001; flag=1; end;
    end;
if YI_17200=-1 or YI_17400=-1 then secmortY=-1;
if YI_17200=-2 or YI_17400=-2 then secmortY=-2;
if YI_17200=-3 or YI_17400=-3 then secmortY=-3;
end;

/* Any taxes on the property to be paid */
proptaxY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_17500=1 and YI_17600 ne . and YI_17600 ge 1 then proptaxY=YI_17600;
if YI_17600=-1 then proptaxY=-1;
if YI_17600=-2 then proptaxY=-2;
if YI_17600=-3 then proptaxY=-3;
end;

/* Own a business, partnership or professional practice */
pvbussY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_17800=1 and YI_17900 not in (-1, -2, -3) then pvbussY=YI_17900;
if YI_17800=1 and (YI_17900 eq -1 or YI_17900 eq -2 or YI_17900 eq -3) then do;
    if YI_18000=1 then do; pvbussY=0; flag=1; end;
    if YI_18000=2 then do; pvbussY=12500; flag=1; end;
    if YI_18000=3 then do; pvbussY=37500; flag=1; end;
    if YI_18000=4 then do; pvbussY=75000; flag=1; end;
    if YI_18000=5 then do; pvbussY=175000; flag=1; end;
end;

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if YI_18000=6 then do; pvbussY=375000; flag=1; end;
if YI_18000=7 then do; pvbussY=750000; flag=1; end;
if YI_18000=8 then do; pvbussY=1000001; flag=1; end;
end;
if YI_17800=-1 or YI_18000=-1 then pvbussY=-1;
if YI_17800=-2 or YI_18000=-2 then pvbussY=-2;
if YI_17800=-3 or YI_18000=-3 then pvbussY=-3;
end;

/* Second real estate owned */
secrestY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_18100=1 and YI_18200 not in (-1, -2, -3) then secrestY=YI_18200;
if YI_18100=1 and (YI_18200 eq -1 or YI_18200 eq -2 or YI_18200 eq -3) then do;
    if YI_18300=1 then do; secrestY=0; flag=1; end;
    if YI_18300=2 then do; secrestY=12500; flag=1; end;
    if YI_18300=3 then do; secrestY=37500; flag=1; end;
    if YI_18300=4 then do; secrestY=75000; flag=1; end;
    if YI_18300=5 then do; secrestY=175000; flag=1; end;
    if YI_18300=6 then do; secrestY=375000; flag=1; end;
    if YI_18300=7 then do; secrestY=750000; flag=1; end;
    if YI_18300=8 then do; secrestY=1000001; flag=1; end;
end;
if YI_18100=-1 or YI_18300=-1 then secrestY=-1;
if YI_18100=-2 or YI_18300=-2 then secrestY=-2;
if YI_18100=-3 or YI_18300=-3 then secrestY=-3;
end;

/* Any retirement plans or pensions */
retireY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_18400=1 and YI_18500 not in (-1, -2, -3) then retireY=YI_18500;
if YI_18400=1 and (YI_18500 eq -1 or YI_18500 eq -2 or YI_18500 eq -3) then do;
    if YI_18600=1 then do; retireY=2500; flag=1; end;
    if YI_18600=2 then do; retireY=7500; flag=1; end;
    if YI_18600=3 then do; retireY=17500; flag=1; end;
    if YI_18600=4 then do; retireY=37500; flag=1; end;
    if YI_18600=5 then do; retireY=75000; flag=1; end;
    if YI_18600=6 then do; retireY=175000; flag=1; end;
    if YI_18600=7 then do; retireY=250000; flag=1; end;
end;
if YI_18400=-1 or YI_18600=-1 then retireY=-1;
if YI_18400=-2 or YI_18600=-2 then retireY=-2;
if YI_18400=-3 or YI_18600=-3 then retireY=-3;
end;

/* Any savings in saving accounts, money market, funds, trusts,...*/
savingsY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_18700=1 and YI_18800 not in (-1, -2, -3) then savingsY=YI_18800;
if YI_18700=1 and (YI_18800 eq -1 or YI_18800 eq -2 or YI_18800 eq -3) then do;
    if YI_18900=1 then do; savingsY=500; flag=1; end;
    if YI_18900=2 then do; savingsY=1750; flag=1; end;
    if YI_18900=3 then do; savingsY=3750; flag=1; end;
    if YI_18900=4 then do; savingsY=7500; flag=1; end;
    if YI_18900=5 then do; savingsY=17500; flag=1; end;
    if YI_18900=6 then do; savingsY=37500; flag=1; end;

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if YI_18900=7 then do; savingsY=50001; flag=1; end;
end;
if YI_18700=-1 or YI_18900=-1 then savingsY=-1;
if YI_18700=-2 or YI_18900=-2 then savingsY=-2;
if YI_18700=-3 or YI_18900=-3 then savingsY=-3;
end;

/* Any other savings in bonds or CDs */
othsavY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_19000=1 and YI_19100 not in (-1, -2, -3) then othsavY=YI_19100;
if YI_19000=1 and (YI_19100 eq -1 or YI_19100 eq -2 or YI_19100 eq -3) then do;
    if YI_19200=1 then do; othsavY=2500; flag=1; end;
    if YI_19200=2 then do; othsavY=7500; flag=1; end;
    if YI_19200=3 then do; othsavY=17500; flag=1; end;
    if YI_19200=4 then do; othsavY=37500; flag=1; end;
    if YI_19200=5 then do; othsavY=75000; flag=1; end;
    if YI_19200=6 then do; othsavY=175000; flag=1; end;
    if YI_19200=7 then do; othsavY=250001; flag=1; end;
end;
if YI_19000=-1 or YI_19200=-1 then othsavY=-1;
if YI_19000=-2 or YI_19200=-2 then othsavY=-2;
if YI_19000=-3 or YI_19200=-3 then othsavY=-3;
end;

/* Any stocks in corporations, mutual funds */
stockY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_19400=1 and YI_19500 not in (-1, -2, -3) then stockY=YI_19500;
if YI_19400=1 and (YI_19500 eq -1 or YI_19500 eq -2 or YI_19500 eq -3) then do;
    if YI_19600=1 then do; stockY=2500; flag=1; end;
    if YI_19600=2 then do; stockY=7500; flag=1; end;
    if YI_19600=3 then do; stockY=17500; flag=1; end;
    if YI_19600=4 then do; stockY=37500; flag=1; end;
    if YI_19600=5 then do; stockY=75000; flag=1; end;
    if YI_19600=6 then do; stockY=175000; flag=1; end;
    if YI_19600=7 then do; stockY=250001; flag=1; end;
end;
if YI_19400=-1 or YI_19600=-1 then stockY=-1;
if YI_19400=-2 or YI_19600=-2 then stockY=-2;
if YI_19400=-3 or YI_19600=-3 then stockY=-3;
end;

/* Present value of any vehicles owned */
pvcarsY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_19700=1 and YI_19800 not in (-1, -2, -3) then pvcarsY=YI_19800;
if YI_19700=1 and (YI_19800 eq -1 or YI_19800 eq -2 or YI_19800 eq -3) then do;
    if YI_19900=1 then do; pvcarsY=500; flag=1; end;
    if YI_19900=2 then do; pvcarsY=1750; flag=1; end;
    if YI_19900=3 then do; pvcarsY=3750; flag=1; end;
    if YI_19900=4 then do; pvcarsY=7500; flag=1; end;
    if YI_19900=5 then do; pvcarsY=17500; flag=1; end;
    if YI_19900=6 then do; pvcarsY=37500; flag=1; end;
    if YI_19900=7 then do; pvcarsY=50001; flag=1; end;
end;
if YI_19700=-1 or YI_19900=-1 then pvcarsY=-1;

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if YI_19700=-2 or YI_19900=-2 then pvcars=-2;
if YI_19700=-3 or YI_19900=-3 then pvcars=-3;
end;

/* Amount owed on any vehicles */
owecarY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_19700=1 and YI_20000 not in (-1, -2, -3) then owecarY=YI_20000;
if YI_19700=1 and (YI_20000 eq -1 or YI_20000 eq -2 or YI_20000 eq -3) then do;
    if YI_20100=1 then do; owecarY=500; flag=1; end;
    if YI_20100=2 then do; owecarY=1750; flag=1; end;
    if YI_20100=3 then do; owecarY=3750; flag=1; end;
    if YI_20100=4 then do; owecarY=7500; flag=1; end;
    if YI_20100=5 then do; owecarY=17500; flag=1; end;
    if YI_20100=6 then do; owecarY=37500; flag=1; end;
    if YI_20100=7 then do; owecarY=50001; flag=1; end;
end;
if YI_19700=-1 or YI_20100=-1 then owecarY=-1;
if YI_19700=-2 or YI_20100=-2 then owecarY=-2;
if YI_19700=-3 or YI_20100=-3 then owecarY=-3;
end;

/* Present value of owned furniture */
PVFURNTY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_20200=1 then do; PVFURNTY=500; flag=1; end;
if YI_20200=2 then do; PVFURNTY=1750; flag=1; end;
if YI_20200=3 then do; PVFURNTY=3750; flag=1; end;
if YI_20200=4 then do; PVFURNTY=7500; flag=1; end;
if YI_20200=5 then do; PVFURNTY=17500; flag=1; end;
if YI_20200=6 then do; PVFURNTY=37500; flag=1; end;
if YI_20200=7 then do; PVFURNTY=50001; flag=1; end;
if YI_20200=-1 then PVFURNTY=-1;
if YI_20200=-2 then PVFURNTY=-2;
if YI_20200=-3 then PVFURNTY=-3;
end;

/* Any other assets not being mentioned before */
otassetY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_20300=1 and YI_20400 not in (-1, -2, -3) then otassetY=YI_20400;
if YI_20300=1 and (YI_20400 eq -1 or YI_20400 eq -2 or YI_20400 eq -3) then do;
    if YI_20500=1 then do; otassetY=2500; flag=1; end;
    if YI_20500=2 then do; otassetY=7500; flag=1; end;
    if YI_20500=3 then do; otassetY=17500; flag=1; end;
    if YI_20500=4 then do; otassetY=37500; flag=1; end;
    if YI_20500=5 then do; otassetY=75000; flag=1; end;
    if YI_20500=6 then do; otassetY=175000; flag=1; end;
    if YI_20500=7 then do; otassetY=250001; flag=1; end;
end;
if YI_20300=-1 or YI_20500=-1 then otassetY=-1;
if YI_20300=-2 or YI_20500=-2 then otassetY=-2;
if YI_20300=-3 or YI_20500=-3 then otassetY=-3;
end;

/* Any loans still owed to family or relatives */

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array rloan rloan01 rloan02 rloan03 rloan04 rloan05 rloan06 rloan07 rloan08 rloan09 rloan10 rloan11 rloan12
    rloan13 rloan14 rloan15 rloan16 rloan17 rloan18 rloan19 rloan20;
array I21800 I2180001 I2180002 I2180003 I2180004 I2180005 I2180006 I2180007 I2180008 I2180009
    I2180010 I2180011 I2180012 I2180013 I2180014 I2180015 I2180016 I2180017 I2180018 I2180019
    I2180020;
array I21900 I2190001 I2190002 I2190003 I2190004 I2190005 I2190006 I2190007 I2190008 I2190009
    I2190010 I2190011 I2190012 I2190013 I2190014 I2190015 I2190016 I2190017 I2190018 I2190019
    I2190020;

do I=1 to 20;
rloan(I)=0;
if YI_8500=1 and YI_20800=1 then do;
    if I21800(I) not in (-1, -2, -3, -4) then rloan(I)=I21800(I);
    if (I21800(I) eq -1 or I21800(I) eq -2 or I21800(I) eq -3) then do;
        if I21900(I)=1 then do; rloan(I)=500; flag=1; end;
        if I21900(I)=2 then do; rloan(I)=1750; flag=1; end;
        if I21900(I)=3 then do; rloan(I)=3750; flag=1; end;
        if I21900(I)=4 then do; rloan(I)=7500; flag=1; end;
        if I21900(I)=5 then do; rloan(I)=17500; flag=1; end;
        if I21900(I)=6 then do; rloan(I)=37500; flag=1; end;
        if I21900(I)=7 then do; rloan(I)=50001; flag=1; end;
        end;
    if YI_20800=-1 or I21900(I)=-4 then rloan(I)=-1;
    if YI_20800=-2 or I21900(I)=-4 then rloan(I)=-2;
    if YI_20800=-3 or I21900(I)=-4 then rloan(I)=-3;
    if I21800(I) eq . then rloan(I)=0;
    end;
end;
/* Any other debts from loans, credit cards, etc...*/
othdebtY=0;
if YI_8400=1 or YI_8500=1 then do;
if YI_22100=1 and YI_22200 not in (-1, -2, -3) then othdebtY=YI_22200;
if YI_22100=1 and (YI_22200 eq -1 or YI_22200 eq -2 or YI_22200 eq -3) then do;
    if YI_22300=1 then do; othdebtY=500; flag=1; end;
    if YI_22300=2 then do; othdebtY=1750; flag=1; end;
    if YI_22300=3 then do; othdebtY=3750; flag=1; end;
    if YI_22300=4 then do; othdebtY=7500; flag=1; end;
    if YI_22300=5 then do; othdebtY=17500; flag=1; end;
    if YI_22300=6 then do; othdebtY=37500; flag=1; end;
    if YI_22300=7 then do; othdebtY=50001; flag=1; end;
    end;
if YI_22100=-1 or YI_22300=-1 then othdebtY=-1;
if YI_22100=-2 or YI_22300=-2 then othdebtY=-2;
if YI_22100=-3 or YI_22300=-3 then othdebtY=-3;
end;

/* Calculate the household net worth according to the youth: hhworthY=assets-liabilities */
do I=1 to 19;
hhworthY=-4;
if rloan(I) ge 0 then do;
    hhworthY=(estatesY + pvranchY + pvmobilY + pvhomeY + pbussY + secrestY + retireY + savingsY + othsavY +
    stockY + pvcarsY + PVFURNTY+otassetY) - (mortgagY + loanowed + secmortY + rloan01 + rloan02 + rloan03
    + rloan04 + rloan05 + rloan06 + rloan07 + rloan08 + rloan09 + rloan10 + rloan11 + rloan12 + rloan13 +
    rloan14 + rloan15 + rloan16 + rloan17 + rloan18 + rloan19 + othdebtY + owecarY);
    end;
end;

```

```

if YI_1900=0 or YI_8500=0 or YI_1900=-4 or YI_8500=-4 then hhworthY=-4;
if (YI_1900=1 or YI_8500=1) and (estatesY=-1 or pvranchY=-1 or pvmobilY=-1 or pvhomeY=-1 or pvbussY=-1 or
secrestY=-1 or retireY=-1 or savingsY=-1 or othsavY=-1 or stockY=-1 or pvcarsY=-1 or PVFURNTY=-1 or
otassetY=-1 or mortgagY=-1 or loanowed=-1 or secmortY=-1 or rloan01=-1 or rloan02=-1 or rloan03=-1 or
rloan04=-1 or rloan05=-1 or rloan06=-1 or rloan07=-1 or rloan08=-1 or rloan09=-1 or rloan10=-1 or rloan11=-1 or
rloan12=-1 or rloan13=-1 or rloan14=-1 or rloan15=-1 or rloan16=-1 or rloan17=-1 or rloan18=-1 or
rloan19=-1 or othdebtY=-1 or owecarY=-1) then hhworthY=-1;
if (YI_1900=1 or YI_8500=1) and (estatesY=-2 or pvranchY=-2 or pvmobilY=-2 or pvhomeY=-2 or pvbussY=-2 or
secrestY=-2 or retireY=-2 or savingsY=-2 or othsavY=-2 or stockY=-2 or pvcarsY=-2 or PVFURNTY=-2 or
otassetY=-2 or mortgagY=-2 or loanowed=-2 or secmortY=-2 or rloan01=-2 or rloan02=-2 or rloan03=-2 or
rloan04=-2 or rloan05=-2 or rloan06=-2 or rloan07=-2 or rloan08=-2 or rloan09=-2 or rloan10=-2 or rloan11=-2 or
rloan12=-2 or rloan13=-2 or rloan14=-2 or rloan15=-2 or rloan16=-2 or rloan17=-2 or rloan18=-2 or
rloan19=-2 or othdebtY=-2 or owecarY=-2) then hhworthY=-2;
if (YI_1900=1 or YI_8500=1) and (estatesY=-3 or pvranchY=-3 or pvmobilY=-3 or pvhomeY=-3 or pvbussY=-3 or
secrestY=-3 or retireY=-3 or savingsY=-3 or othsavY=-3 or stockY=-3 or pvcarsY=-3 or PVFURNTY=-3 or
otassetY=-3 or mortgagY=-3 or loanowed=-3 or secmortY=-3 or rloan01=-1 or rloan02=-3 or rloan03=-3 or
rloan04=-3 or rloan05=-3 or rloan06=-3 or rloan07=-3 or rloan08=-3 or rloan09=-3 or rloan10=-3 or rloan11=-3 or
rloan12=-3 or rloan13=-3 or rloan14=-3 or rloan15=-3 or rloan16=-3 or rloan17=-3 or rloan18=-3 or
rloan19=-3 or othdebtY=-3 or owecarY=-3) then hhworthY=-3;

/* Create gross hh income according to the youth*/
if afdcY eq -4 then afdcY=0;
if ssiy eq -4 then ssiy=0;
if othe eq -4 then othe=0;

do I=1 to 9;
groshhIY=-4;
if YI_1900=0 or YI_8500=0 or YI_1900=-4 or YI_8500=-4 then groshhIY=-4;
if (otfamI(I) ge 0 and (YI_1900=1 or YI_8500=1)) then do;
groshhIY=(nfarmwgY + farmwgY + nfarmwgP + farmwgP + childsuY + interesY + dividend + rentalIY + pensionY
+ faincome + maincome + mgincome + fgincome + oftfamI01 + oftfamI02 + oftfamI03 + oftfamI04 + oftfamI05 +
oftfamI06 + oftfamI07 + oftfamI08 + oftfamI09 + allowpar + allowmot + allowfat + afdcY + ssiy + othe);
end;

if (YI_1900=1 or YI_8500=1) and (nfarmwgY=-1 or farmwgY=-1 or nfarmwgP=-1 or farmwgP=-1 or childsuY=-1 or
interesY=-1 or dividend=-1 or rentalIY=-1 or pensionY=-1 or faincome=-1 or maincome=-1 or mgincome=-1 or
fgincome=-1 or oftfamI01=-1 or oftfamI02=-1 or oftfamI03=-1 or oftfamI04=-1 or oftfamI05=-1 or
oftfamI06=-1 or oftfamI07=-1 or oftfamI08=-1 or oftfamI09=-1 or allowpar=-1 or allowmot=-1 or allowfat=-1 or
afdcy=-1 or ssiy=-1 or othe=-1 ) then groshhIY=-3;
if (YI_1900=1 or YI_8500=1) and (nfarmwgY=-2 or farmwgY=-2 or nfarmwgP=-2 or farmwgP=-2 or childsuY=-2 or
interesY=-2 or dividend=-2 or rentalIY=-2 or pensionY=-2 or faincome=-2 or maincome=-2 or mgincome=-2 or
fgincome=-2 or oftfamI01=-2 or oftfamI02=-2 or oftfamI03=-2 or oftfamI04=-2 or oftfamI05=-2 or
oftfamI06=-2 or oftfamI07=-2 or oftfamI08=-2 or oftfamI09=-2 or allowpar=-2 or allowmot=-2 or allowfat=-2 or
afdcy=-2 or ssiy=-2 or othe=-2 ) then groshhIY=-3;
if (YI_1900=1 or YI_8500=1) and (nfarmwgY=-3 or farmwgY=-3 or nfarmwgP=-3 or farmwgP=-3 or childsuY=-3 or
interesY=-3 or dividend=-3 or rentalIY=-3 or pensionY=-3 or faincome=-3 or maincome=-3 or mgincome=-3 or
fgincome=-3 or oftfamI01=-3 or oftfamI02=-3 or oftfamI03=-3 or oftfamI04=-3 or oftfamI05=-3 or
oftfamI06=-3 or oftfamI07=-3 or oftfamI08=-3 or oftfamI09=-3 or allowpar=-3 or allowmot=-3 or allowfat=-3 or
afdcy=-3 or ssiy=-3 or othe=-3 ) then groshhIY=-3;

if YI_6000=0 then do;
if (otfamI(I) ge 0 and (YI_1900=1 or YI_8500=1)) then do;
groshhIY=(nfarmwgY + farmwgY + nfarmwgP + farmwgP + childsuY + interesY + dividend + rentalIY + pensionY
+ faincome + maincome + mgincome + fgincome + oftfamI01 + oftfamI02 + oftfamI03 + oftfamI04 + oftfamI05 +
oftfamI06 + oftfamI07 + oftfamI08 + oftfamI09 + allowpar + allowmot + allowfat + afdcY + ssiy + othe);
end;

```

```

if (YI_1900=1 or YI_8500=1) and (nfarmwgY=-1 or farmwgY=-1 or nfarmwgP=-1 or farmwgP=-1 or childsuY=-1 or
    interesY=-1 or dividend=-1 or rentalIY=-1 or pensionY=-1 or faincome=-1 or maincome=-1 or mgincome=-1 or
    fgincome=-1 or oftfamI01=-1 or oftfamI02=-1 or oftfamI03=-1 or oftfamI04=-1 or oftfamI05=-1 or
    oftfamI06=-1 or oftfamI07=-1 or oftfamI08=-1 or oftfamI09=-1 or allowpar=1 or allowmot=1 or allowfat=1 or
    afdcyc=1 or ssiy=1 or othe=1 ) then groshhIY=-1;
if (YI_1900=1 or YI_8500=1) and (nfarmwgY=-2 or farmwgY=-2 or nfarmwgP=-2 or farmwgP=-2 or childsuY=-2 or
    interesY=-2 or dividend=-2 or rentalIY=-2 or pensionY=-2 or faincome=-2 or maincome=-2 or mgincome=-2 or
    fgincome=-2 or oftfamI01=-2 or oftfamI02=-2 or oftfamI03=-2 or oftfamI04=-2 or oftfamI05=-2 or
    oftfamI06=-2 or oftfamI07=-2 or oftfamI08=-2 or oftfamI09=-2 or allowpar=2 or allowmot=2 or allowfat=2 or
    afdcyc=2 or ssiy=2 or othe=2 ) then groshhIY=-2;
if (YI_1900=1 or YI_8500=1) and (nfarmwgY=-3 or farmwgY=-3 or nfarmwgP=-3 or farmwgP=-3 or childsuY=-3 or
    interesY=-3 or dividend=-3 or rentalIY=-3 or pensionY=-3 or faincome=-3 or maincome=-3 or mgincome=-3 or
    income=-3 or oftfamI01=-3 or oftfamI02=-3 or oftfamI03=-3 or oftfamI04=-3 or oftfamI05=-3 or
    oftfamI06=-3 or oftfamI07=-3 or oftfamI08=-3 or oftfamI09=-3 or allowpar=3 or allowmot=3 or allowfat=3 or
    afdcyc=3 or ssiy=3 or othe=3 ) then groshhIY=-3;
end;
end;

/*correct for invalid skips*/
if (pubid=1714 or pubid=6734 or pubid=8405) then hhworthY=-3;
if (pubid=1714 or pubid=6734 or pubid=8405) then groshhIY=-3;

```

******* SECTION 3: GROSS HOUSEHOLD INCOME—PARENT AND YOUTH INFORMATION *******

/* Create the Gross household income, first looking at the parent, if not available, at the youth. Also a dummy variable indicating whether the value has been taken from the parent or youth */

```

if groshhIp ne . then do;
    hhincome=groshhIp; R=1; end;
if groshhIp eq . then do;
    hhincome=groshhIY; R=2; end;
if (groshhIp=-2 or groshhIp=-1 or groshhIp=-4 or groshhIp=-3) and groshhIY ne -4 then do;
    hhincome=groshhIY; R=2; end;

```

******* SECTION 4: POVERTY THRESHOLDS AND INCOME-TO-POVERTY THRESHOLD RATIO *******

/* The hh poverty threshold is calculated based on the total number of hh members and the number under age 18 */

```

povert=-4;
if hhmember=-4 or under18=-4 then povert=-4;
if hhmember=-1 or under18=-1 then povert=-1;
if hhmember=-2 or under18=-2 then povert=-2;
if hhmember=-3 or under18=-3 then povert=-3;
if hhmember=1 then povert=8163;

if hhmember=2 then do;
    if under18=0 then povert=10507;
    if under18=1 then povert=10815;
end;

if hhmember=3 then do;
    if under18=0 then povert=12273;
    if under18=1 then povert=12629;
    if under18=2 then povert=12641;
end;

```

```

if hhmember=4 then do;
    if under18=0 then povert=16183;
    if under18=1 then povert=16448;
    if under18=2 then povert=15911;
    if under18=3 then povert=15967;
end;

if hhmember=5 then do;
    if under18=0 then povert=19516;
    if under18=1 then povert=19800;
    if under18=2 then povert=19194;
    if under18=3 then povert=18725;
    if under18=4 then povert=18438;
end;

if hhmember=6 then do;
    if under18=0 then povert=22447;

```

```

if under18=1 then povert=22536;
if under18=2 then povert=22072;
if under18=3 then povert=21627;
if under18=4 then povert=20965;
if under18=5 then povert=20573;
end;

if hhmember=7 then do;
  if under18=0 then povert=25828;
  if under18=1 then povert=25990;
  if under18=2 then povert=25434;
  if under18=3 then povert=25046;
  if under18=4 then povert=24324;
  if under18=5 then povert=23482;
  if under18=6 then povert=22558;
end;

if hhmember=8 then do;
  if under18=0 then povert=28887;
  if under18=1 then povert=29142;
  if under18=2 then povert=28617;
  if under18=3 then povert=28158;
  if under18=4 then povert=27506;
  if under18=5 then povert=26678;
  if under18=6 then povert=25816;
  if under18=7 then povert=25597;
end;

if hhmember=9 then do;
  if under18=0 then povert=34749;
  if under18=1 then povert=34917;
  if under18=2 then povert=34453;

```

```

if under18=3 then povert=34063;
if under18=4 then povert=33423;
if under18=5 then povert=32542;
if under18=6 then povert=31746;
if under18=7 then povert=31548;
if under18=8 then povert=30333;
end;

povthr=-4;
if hhincome ge 0 then povthr=hhincome/povert;
if hhincome eq -1 or povert=-1 then povthr=-1;
if hhincome eq -2 or povert=-2 then povthr=-2;
if hhincome eq -3 or povert=-3 then povthr=-3;

povthr2=-4;
if povthr ge 0 then do;
  povthr2=povthr*100;
end;
if povthr eq -1 then povthr2=-1;
if povthr eq -2 then povthr2=-2;
if povthr eq -3 then povthr2=-3;

povthr3=-4;
if povthr2 ge 0 then do;
  povthr3=round(povthr2, 1);
end;
if povthr2 eq -1 then povthr3=-1;
if povthr2 eq -2 then povthr3=-2;
if povthr2 eq -3 then povthr3=-3;

endsas;

```

PARTICIPATION IN GOVERNMENT PROGRAMS

Variables Created: CV_AMT_GOVNT_PGM_PCY.80 – CV_AMT_GOVNT_PGM_PCY.98
 CV_GOVNT_PGM_EVER
 CV_GOVNT_PGM_YR.80 – CV_GOVNT_PGM_YR.98

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
I900_D,_M,_Y	YINF-900_D,_M,_Y	P24100	YPRG-24100
P16100	YPRG-16100	P246001M, 02M	YPRG-24600.01_M,.02_M
P16200	YPRG-16200	P246001Y, 02Y	YPRG-24600.01_Y,.02_Y
P167001M-03M	YPRG-16700.01_M-.03_M	P247001, 02	YPRG-24700.01,.02
P167001Y-03Y	YPRG-16700.01_Y-.03_Y	P248001, 02	YPRG-24800.01,.02
P170001-03	YPRG-17000.01-.03	P249001	YPRG-24900.01
P170901-03	YPRG-17090.01-.03	P249901	YPRG-24990.01
P172001M-02M	YPRG-17200.01_M-.02_M	P2500	YPRG-2500
P172001Y-02Y	YPRG-17200.01_Y-.02_Y	P252001M, 02M	YPRG-25200.01_M,.02_M
P175001-03	YPRG-17500.01-.03	P252001Y, 02Y	YPRG-25200.01_Y,.02_Y
P181001-03	YPRG-18100.01-.03	P253001, 02	YPRG-25300.01,.02
P182001	YPRG-18200.01	P254001	YPRG-25400.01
P1830011-15	YPRG-18300.01_001-_005	P259001, 02	YPRG-25900.01,.02
P1830021-25	YPRG-18300.02_001-_005	P2600	YPRG-2600
P1830031-35	YPRG-18300.03_001-_005	P260001	YPRG-26000.01
P18800	YPRG-18800	P2610011-15	YPRG-26100.01_001-_005
P18900	YPRG-18900	P2610021-25	YPRG-26100.02_001-_005
P194001M-02M	YPRG-19400.01_M-.02_M	P262001, 02	YPRG-26200.01,.02
P194001Y-02Y	YPRG-19400.01_Y-.02_Y	P264001, 02	YPRG-26400.01,.02
P195001, 02	YPRG-19500.01,.02	P26600	YPRG-26600
P196001, 02	YPRG-19600.01,.02	P26700	YPRG-26700
P197001, 02	YPRG-19700.01,.02	P2700	YPRG-2700
P197901, 02	YPRG-19790.01,.02	P272001M, Y	YPRG-27200.01_M,_Y
P200001M-02M	YPRG-20000.01_M-.02_M	P273001	YPRG-27300.01
P200001Y-02Y	YPRG-20000.01_Y-.02_Y	P274001	YPRG-27400.01
P201001, 02	YPRG-20100.01,.02	P275001	YPRG-27500.01
P202001	YPRG-20200.01	P275901	YPRG-27590.01
P207001, 02	YPRG-20700.01,.02	P278001M, Y	YPRG-27800.01_M,_Y
P208001	YPRG-20800.01	P279001	YPRG-27900.01
P2090011-15	YPRG-20900.01_001-_005	P2800	YPRG-2800
P2090021-25	YPRG-20900.02_001-_005	P285001	YPRG-28500.01
P210001, 02	YPRG-21000.01,.02	P286001	YPRG-28600.01
P212001, 02	YPRG-21200.01,.02	P287001	YPRG-28700.01
P21400	YPRG-21400	P289001	YPRG-28900.01
P21500	YPRG-21500	P2900	YPRG-2900
P220001M-03M	YPRG-22000.01_M-.03_M	P3000	YPRG-3000
P220001Y-03Y	YPRG-22000.01_Y-.03_Y	P30500	YPRG-30500
P221001-03	YPRG-22100.01-.03	P3100	YPRG-3100
P222001-03	YPRG-22200.01-.03	P310001M, Y	YPRG-31000.01_M,_Y
P223001-03	YPRG-22300.01-.03	P311001	YPRG-31100.01
P223901-03	YPRG-22390.01-.03	P312001	YPRG-31200.01
P226001M-02M	YPRG-22600.01_M-.02_M	P313001	YPRG-31300.01
P226001Y-02Y	YPRG-22600.01_Y-.02_Y	P313901	YPRG-31390.01
P227001, 02	YPRG-22700.01,.02	P316001M, Y	YPRG-31600.01_M,_Y
P228001	YPRG-22800.01	P317001	YPRG-31700.01
P230001-03	YPRG-23000.01-.03	P318001	YPRG-31800.01
P233001-03	YPRG-23300.01-.03	P3200	YPRG-3200
P234001	YPRG-23400.01	P323001	YPRG-32300.01
P2350011-15	YPRG-23500.01_001-_005	P324001	YPRG-32400.01

Appendix 5: Income and Assets Variable Creation

P2350021-25	YPRG-23500.02_001-_005	P3250011-15	YPRG-32500.01_001-_005
P2350031-35	YPRG-23500.03_001-_005	P326001	YPRG-32600.01
P236001-03	YPRG-23600.01-.03	P329001	YPRG-32900.01
P238001, 02	YPRG-23800.01, .02	P3300	YPRG-3300
P2400	YPRG-2400	PUBID	PUBID
P24000	YPRG-24000	sKEY_D, _M, _Y	KEY!BDATE_D, _M, _Y

This program creates several variables describing the respondent's participation in government programs for the economically disadvantaged. During the interview, respondents report amounts received and months of participation in Aid to Families with Dependent Children (AFDC); food stamps; the Low Income Home Energy Assistance Program (LIHEAP); Supplemental Security Income (SSI); and Women, Infants, and Children (WIC). There is also an "other assistance" question to capture information about any other government program from which respondents may have received assistance. Users should note that information about unemployment compensation and worker's compensation is collected in separate question series. Participation in these programs is **not** included here but will be summarized in separate variables in future rounds (in round 1, no respondents reported participation in these programs).

***** The program to create these variables first creates a month-by-month participation array for each of the six categories (AFDC, food stamps, LIHEAP, SSI, WIC, and other). These month-by-month variables constitute part of the event history array for program participation; see appendix 7 for more information. Due to space considerations, only the AFDC array creation is shown here in its entirety; the arrays for the other five programs are created in a nearly identical manner. Notes in this program identify differences in hand edits among the six arrays; otherwise, all information is the same. Users who need access to the complete code should contact NLS User Services. After all six arrays are created, the program merges data from the six categories to create the summary variables. *****

***** SECTION 1: AFDC MONTH-BY-MONTH PARTICIPATION ARRAY *****

```
%let num=3; /* maximum # of spells that R reports participating in AFDC */
%let years=19; /* # of years covered by array */
%let name=afdc;
```

***** This portion of the program changes any amounts that exceed the yearly AFDC limit (federal, not program specific). In addition, a flag (amtvar) is created to let users know if the amount is imputed or not. The values are the following: 0=no change to the reported value
 1=reported value too high, imputed value used
 2=reported value too high, reported value used *****;

```
amtvar1=-4; amtvar2=-4; amtvar3=-4;
```

```
if pubid=5296 then do;
  p181001=ceil(3126/12);
  amtvar1=1;
end;
```

***** The hand edits for the other programs are as follows:

```
Food stamps      if pubid=7911 then do; P207001=ceil(12000/28); amtvar1=1; end;
                  if pubid=5296 then do; P207001=ceil(2616/21); amtvar1=1; end;
LIHEAP, SSI, WIC, and other have no hand edits. *****
```

***** The variables created and used in this program are put into an array using the command below. Each array is defined by the (&num) argument where &num refers to the number of loops in the array. *****;

```
array syear(&num) ybeg1-ybeg&num;
array eyear(&num) yend1-yend&num;
array smonth(&num) mbeg1-mbeg&num;
array emonth(&num) mend1-mend&num;
```

```

array sdate(&num) sdate1-sdate&num;
array edate(&num) edate1-edate&num;
array flag(&num) flag1-flag&num;
array censor(&num) censor1-censor&num;
array &name(&years) &name.1-&name.&years;

array weeks(&num) p175001-p17500&num;           /*answer number of weeks*/
array rev(&num) p170001-p17000&num;             /*still receiving*/

array money(&num) p181001-p18100&num;           /*average amount per month*/
array estmoney(&num) p182001-p18200&num;         /*estimated ave amount per month*/
array amount(&num) amount1-amount&num;

array oldsmon(&num) p167001m p167002m p167003m;   /*original start month*/
array oldemon(&num) p172001m p172002m p172003m;   /*original end month*/

array oldsyear(&num) p167001y p167002y p167003y;   /*original start year*/
array oldeyear(&num) p172001y p172002y p172003y;   /*original end year*/

array flagvar(&num) flagvar1 flagvar2 flagvar3;     /*variable indicated imputed participation values*/
array amtvar(&num) amtvar1 amtvar2 amtvar3;          /* variable indicating imputed amounts*/

array cstart(&num) cstart1 cstart2 cstart3;
array cstop(&num) cstop1 cstop2 cstop3;

***** These two-dimensional arrays create variables for each year and month listed (starting from the birth month of the oldest NLSY97 respondent and ending with the most recent interview month). *****;

array count(&years,12)
  &pre._80_1-&pre._80_12  &pre._81_1-&pre._81_12  &pre._82_1-&pre._82_12  &pre._83_1-&pre._83_12
  &pre._84_1-&pre._84_12  &pre._85_1-&pre._85_12  &pre._86_1-&pre._86_12  &pre._87_1-&pre._87_12
  &pre._88_1-&pre._88_12  &pre._89_1-&pre._89_12  &pre._90_1-&pre._90_12  &pre._91_1-&pre._91_12
  &pre._92_1-&pre._92_12  &pre._93_1-&pre._93_12  &pre._94_1-&pre._94_12  &pre._95_1-&pre._95_12
  &pre._96_1-&pre._96_12  &pre._97_1-&pre._97_12  &pre._98_1-&pre._98_12;

array countamt(&years,12)
  a&pre._80_1-a&pre._80_12  a&pre._81_1-a&pre._81_12  a&pre._82_1-a&pre._82_12
  a&pre._83_1-a&pre._83_12  a&pre._84_1-a&pre._84_12  a&pre._85_1-a&pre._85_12
  a&pre._86_1-a&pre._86_12  a&pre._87_1-a&pre._87_12  a&pre._88_1-a&pre._88_12
  a&pre._89_1-a&pre._89_12  a&pre._90_1-a&pre._90_12  a&pre._91_1-a&pre._91_12
  a&pre._92_1-a&pre._92_12  a&pre._93_1-a&pre._93_12  a&pre._94_1-a&pre._94_12
  a&pre._95_1-a&pre._95_12  a&pre._96_1-a&pre._96_12  a&pre._97_1-a&pre._97_12
  a&pre._98_1-a&pre._98_12;

array a_&name(&years) a_&name.1-a_&name.&years;
array p_&name(&years) p_&name.1-p_&name.&years;

***** The first variable 'receive' below indicates whether the person reports participation in the program at the time of the interview. If the second variable 'noelgb' equals 1, it indicates that the respondent is not eligible to receive benefits from the program. *****;

receive=p16100;

if p2400=1 then rec=1; else rec=0;
if p2400=-4 then noelgb=1; else noelgb=0;

```

Appendix 5: Income and Assets Variable Creation

***** Use the category reported by the respondent to create an estimated amount. The estimated amount is the midpoint rounded down. Note that the 12th category lists \$1251 as the amount. This amount was chosen since the category is unbounded—the number represents one dollar above the lower bound. *****;

```
do i = 1 to &num;
if money(i) in (-1, -2, -3) then do;
  if estmoney(i)= 1 then amount(i)=50;           else if estmoney(i)=2 then amount(i)=150;
  else if estmoney(i)=3 then amount(i)=250;       else if estmoney(i)=4 then amount(i)=350;
  else if estmoney(i)=5 then amount(i)=450;       else if estmoney(i)=6 then amount(i)=550;
  else if estmoney(i)=7 then amount(i)=650;       else if estmoney(i)=8 then amount(i)=750;
  else if estmoney(i)=9 then amount(i)=850;       else if estmoney(i)=10 then amount(i)=950;
  else if estmoney(i)=11 then amount(i)=1125;     else if estmoney(i)=12 then amount(i)=1251;
  else if estmoney(i) in (-1,-2,-3) then amount(i)=estmoney(i);
end;
else amount(i)=money(i);
end;
```

***** This portion of the SAS program defines the start date and end dates. If the respondent reports still receiving, the interview date is used as the temporary end date for the last loop reported. In the next survey round, the respondent will be asked if he or she is still receiving and, if not, a permanent end date equivalent to the interview date of the previous round will be assigned. Users will be able to tell which method was used by looking at the following participation flag variable created during the program. The categories are the following:

```
1=respondent reported participation dates
2=start month imputed
3=start month and year imputed
4=stop month imputed
5=stop month and year imputed
6=start and stop dates imputed *****;
```

```
do i=1 to &num;
eyear(i)=-4;                      /*initialize values*/
emonth(i)=-4;                     /*initialize values*/
flagvar(i)=-4;                    /*initialize values*/
smonth(i)=oldsmon(i);             /*this creates a new array smonth so that oldsmon is not overwritten*/
syear(i)=oldsyear(i);              /*this creates a new array syear so that oldsyear is not overwritten*/
if rev(i)=0 then do;               /*if no interruption reported and still receiving (rev(i)=0) then use int. date*/
  emonth(i)=i900_m;                /*assigns temporary end date to the last loop*/
  eyear(i)=i900_y;                 /*assigns temporary end date to the last loop*/
  flagvar(i)=1;
end;
else do;
  emonth(i)=oldemon(i);           /*if an interruption is reported, use the reported date*/
  eyear(i)=oldeyear(i);
  flagvar(i)=1;
if i=&num and oldeyear(i)=. then do; /*an end variable is created when, for example, there are 3
                                         start loops reported in the data but only 2 end loops reported
                                         (the respondents in the third loop are all still receiving)*/
  emonth(i)=-4;
  eyear(i)=-4;
  flagvar(i)=-4;
end;
end;
end;

do i=1 to &num;
if eyear(i)=-4 then do;
  flagvar(i)=-4;
end;
end;
```

```

*****Count the number of loops for each respondent. This is used later in the SAS program.****/
loopnum=&num;
do i = &num to 1 by -1;    /*Starts from the maximum loops and subtracts 1 for each loop with a valid skip*/
if smonth(i) = -4 and syear(i)=-4 then loopnum=i-1;
end;

/**Create variable indicating censoring; create flag indicating the imputation in dates. NOTE: Not in the keep
statement**/


do i=1 to &num;
flag(i)=-4;
censor(i)=-4;
if loopnum >0 then censor(i)=0;
if rev(i)=0 then censor(i)=1;
end;

do i=1 to &num ;
weekmon =ceil(weeks(i)/4.3);                                /**Gives a month count by ceiling the weeks/4.3**/


*****1. if start year is known and month is unknown ****/
if (-3 <= smonth(i) <= -1) and (syear(i) > 0) and (weeks(i)>0) then do;  /*mon. missing, yr. present, wks. known*/
flag(i)=smonth(i);                                         /*This flag will be a -1 or -2 if month is missing*/
flagvar(i)=2;

/** 1.a' if weeks are known, then count forward by the number of weeks from January of the start year if not
currently receiving. If the count exceeds the interview date then stop counting at the interview date. ****/
if receive=0 then do;
smonth(i)=1;
eyear(i)= int((syear(i)*12 + smonth(i) + weekmon -1)/12);
emonth(i) = mod((syear(i)*12 + smonth(i) + weekmon -1),12);
if emonth(i)=0 then do;
emonth(i)=12;
eyear(i)=eyear(i)-1;
end;
if (eyear(i)*12 + emonth(i)) > (i900_y*12 +i900_m) then do;          /*If the year and month extracted above
exceeds the interview date then replace
with the interview date. */
emonth(i)=i900_m;
eyear(i)=i900_y;
end;
end;

/** 1.a'' If weeks are known and R currently receiving, then count backwards by the number of weeks from the
interview date. If the number of weeks falls short of the start year, the start month is December of that year.
If the number of weeks is past the start year, then the start month is January of that year.****/
else if receive=1 then do;
emonth(i)=i900_m;                                         /*This sets an end date equal to the interview date */
eyear(i)=i900_y;
temp_y=int((i900_y*12+i900_m - weekmon + 1)/12);
smonth(i)=mod((i900_y*12 + i900_m - weekmon + 1 ),12);
if smonth(i)=0 then do;
smonth(i)=12;
temp_y=temp_y-1;
end;
if syear(i) > temp_y then smonth(i) = 1;                  /*If the calculated year is after the temp year, then end the
array in January of the calculated year.*/
if syear(i) < temp_y then smonth(i) = 12;                /*If the calculated year is before the temp year,
then end the array in December of the calculated year.*/

```

```

    end;
end;

/** 1.b Start year is known, weeks and start month are unknown *****/
if (-3 <= smonth(i) <-1) and (syear(i) >0 ) and (weeks(i)<0) then do;
  flag(i)=smonth(i);
  flagvar(i)=2;

/**Start month is January*/
smonth(i)=1;
if receive=1 then do;           /*if currently receiving then replace end month and year with interview date*/
  emonth(i)=i900_m;
  eyear(i)=i900_y;
end;
else if receive=0 then do;      /*if not currently receiving then use December of the start year*/
  emonth(i)=12;
  eyear(i)=syear(i);

/** Cut off the array at the interview date if start year is interview year and December is later than interview date */
if eyear(i)=i900_y and emonth(i) > i900_m then emonth(i)=i900_m;
end;
end;

/**2. if start year is unknown but weeks are known then count back from interview date if currently receiving. If
not currently receiving, then count back from interview date to find the most recent year the respondent could have
begun receiving and receive for that number of months; then count forward the number of months from January of
that year ****/
if weeks(i)>0 and syear(i)<0 then do;
  flag(i)=syear(i);
  flagvar(i)=3;
  if receive=1 then do;
    emonth(i)=i900_m;
    eyear(i)=i900_y;
    smonth(i)=mod((eyear(i)*12 + emonth(i) - weekmon +1),12);
    syear(i)=int((eyear(i)*12 + emonth(i) -weekmon +1)/12);
    if smonth(i)=0 then do;
      smonth(i)=12;
      syear(i)=syear(i)-1;
    end;
  end;
  if receive=0 then do;
    smonth(i)=1;
    syear(i)=int((i900_y*12 + i900_m -weekmon+1)/12);
    if mod((i900_y*12 + i900_m -weekmon+1),12) = 0 then syear(i)=syear(i)-1;
    eyear(i)=int((syear(i)*12 + smonth(i)+weekmon-1)/12);
    emonth(i) = mod((syear(i)*12 + smonth(i)+weekmon-1),12);
    if emonth(i)=0 then do;
      emonth(i)=12;
      eyear(i)=eyear(i)-1;
    end;
  end;
end;

/**3. If stop year is known and weeks are known and not currently receiving, but stop month is not known, then
count forward from start year. If the number of months falls short of the stop year, then use January of the end year

```

as the stop date; if the number of months exceeds the stop year, then end the array in the December of the stop year. If the stop year is equal to the interview year and the stop month exceeds the interview month, then stop at the interview date. If currently receiving, use interview date as the stop date. *****/

if (-3 <= emonth(i) < -1) and (eyear(i) > 0) and (weeks(i) > 0) then do;

flag(i)=emonth(i);

flagvar(i)=4;

if receive=1 then do;

emonth(i)=i900_m;

eyear(i)=i900_y;

end;

if receive=0 then do;

temp_y=int((syear(i)*12 + smonth(i) + weekmon-1)/12);

emonth(i) =mod((syear(i)*12+smonth(i)+weekmon -1),12);

if emonth(i)=0 then do;

emonth(i)=12;

temp_y=temp_y-1;

end;

if temp_y < eyear(i) then emonth(i)=1;

if temp_y > eyear(i) then emonth(i)=12;

if (eyear(i) = i900_y)and (emonth(i) > i900_m) then do;

emonth(i)=i900_m;

end;

end;

end;

****4. If stop year is known, but weeks are unknown and stop month is unknown *****/

if (-3 <= emonth(i) < -1) and (eyear(i) > 0) and (weeks(i) < 0) then do;

flag(i)= emonth(i);

flagvar(i)=4;

if receive=1 then do;

emonth(i)=i900_m;

eyear(i)=i900_y;

end;

if receive=0 then emonth(i)=12;

if receive=0 and eyear(i)=i900_y then emonth(i)=i900_m;

end;

*** 5. if stop year is unknown, and weeks are unknown***/

if (-3 <= eyear(i)<=-1) and (weeks(i) <0) then do;

flag(i)=eyear(i);

flagvar(i)=5;

if receive=1 then do;

emonth(i)=i900_m;

eyear(i)=i900_y;

end;

if receive=0 then do;

eyear(i)=syear(i);

emonth(i)=12;

if syear(i)=i900_y then emonth(i)=i900_m;

end;

end;

****6. if stop year is unknown, but weeks are known****/

if (-3 <= eyear(i)<=-1) and (weeks(i) >0) then do;

flag(i)=eyear(i);

flagvar(i)=5;

if receive=1 then do;

```

emonth(i)=i900_m;
eyear(i)=i900_y;
end;
if receive=0 then do;
    eyear(i)=int((syear(i)*12 + smonth(i)+weekmon-1)/12);
    emonth(i)=mod((syear(i)*12 + smonth(i) + weekmon -1),12);
    if emonth(i)=0 then do;
        emonth(i)=12;
        eyear(i)=eyear(i)-1;
        end;
    if (eyear(i)*12 + emonth(i)) > (i900_y*12 +i900_m) then do;
        eyear(i)=i900_y;
        emonth(i)=i900_m;
        end;
    end;
end;
****7. if start year, stop year, and weeks are unknown, use the date since last interview to interview date (in
R1=birthdate to interview date)****/
if (-3 =< syear(i) <= -1) and (-3 =< weeks(i) <= -1 ) and (-4 =< eyear(i) <= -1) then do;
flag(i)=syear(i);
flagvar(i)=6;
emonth(i)=i900_m;
eyear(i)=i900_y;
smonth(i)=skey_m;
syear(i)=skey_y;
end;

****8. if start year and month unknown, weeks never asked and stop date (year and month) known****/
if (-3 =< syear(i) <= -1) and (-4 =< weeks(i) <= -1 ) and (eyear(i) >0) then do;
flag(i)=syear(i);
flagvar(i)=3;
eyear(i)=oldeyear(i);
emonth(i)=oldemon(i);
smonth(i)=skey_m;
syear(i)=skey_y;
end;
end;

****9. if invalidly skipped from section - ROUND 1 ONLY ****/
do i=1 to &num;
if pubid=1714 or pubid=6734 or pubid=8405 then do;
flag(i)=-3;
flagvar(i)=-3;
amtvar(i)=-3;
emonth(i)=i900_m;
eyear(i)=i900_y;
smonth(i)=skey_m;
syear(i)=skey_y;
end;
end;

*****INITIALIZE EVENT HISTORY VARIABLES*****
do M=1 to &years;
do N = 1 to 12;
if noelgb=1 then count(m,n)=-4;
else count(M,N)=0;

```

```

*   if (m*12+n) > ((i900_y-1979)*12 +i900_m) then count(m,n)=-4;
  countamt(m,n)=-4;
end;
end;

*****LOOP 1 STARTS*****/

if loopnum^=0 then do;

***** to get the start and end dates with the format as ddmmmyyy*****
Do i = 1 to loopnum;
  do j=1 to 2;
    sdate(i)=INPUT('01'||TRIM(LEFT(put(smonth(i),z2.0)))||trim(left(syear(i))),ddmmyy8.);
    edate(i)=INPUT('01'||TRIM(LEFT(put(emonth(i),z2.0)))||trim(left(eyear(i))),ddmmyy8.);
  end;
end;

format sdate1 edate1 sdate2 edate2 sdate3 edate3 ddmmyy8.;

*****Assign values to event history and amount variables*****
do i= 1 to loopnum;
  do K=sdate(i) to edate(i);
    mmm=month(K);
    yyy=year(K)-1979;
    if flag(i) in (-1,-2) then do;      /**the flags signal that the date has been imputed earlier in the program**/
      count(yyy,mmm)=flag(i);
      countamt(yyy,mmm)=amount(i);
    end;
    else do;
      count(yyy,mmm)=1;           /**lays down a '1' in the array for each month received**/
      countamt(yyy,mmm)=amount(i);   /**puts in the corresponding amount for each month received**/
    end;
    end;
  end;
end;

do i=1 to &num;
  if flag(i)=-3 then do;
    do j=1 to 2;
      sdate(i)=INPUT('01'||TRIM(LEFT(put(smonth(i),z2.0)))||trim(left(syear(i))),ddmmyy8.);
      edate(i)=INPUT('01'||TRIM(LEFT(put(emonth(i),z2.0)))||trim(left(eyear(i))),ddmmyy8.);
    end;
  end;
end;

format sdate1 edate1 sdate2 edate2 sdate3 edate3 ddmmyy8.;

do K=sdate(i) to edate(i);
  mmm=month(i);
  yyy=year(k)-1979;
  count(yyy,mmm)=flag(i);
  countamt(yyy,mmm)=flag(i);
end;
end;
end;

*****assign continuous month value to start and stop dates*****
cstart1=-4; cstart2=-4; cstart3=-4; cstop1=-4; cstop2=-4; cstop3=-4;

```

Appendix 5: Income and Assets Variable Creation

```
do i=1 to loopnum;
  cstart(i)=((12*(syear(i)-1980))+smonth(i));
  cstop(i)=((12*(eyear(i)-1980))+emonth(i));
end;

do i=1 to &num;
  if flagvar(i)=-3 then do;
    cstart(i)=-3;
    cstop(i)=-3;
  end;
end;

*****END OF LOOP 1*****/ 

/**initialize to '0' the number of months and the amounts received, by years and the total over all years ***/
do i=1 to &years;
  &name(i)=0;  a_&name(i)=0;
end;
&name.all=0; a&pre._all=0;

m1=0;
m2=0;
**** calculate the amount of months in total as well in each year receiving benefits*****
do i=1 to &years;
  n1=0;
  n2=0;
  do j= 1 to 12;
    if count(i,j) >=0 then do;
      &name(i)=&name(i) + count(i,j);
      &name.all=&name.all + count(i,j);
      n1=n1+1;                                /**the n1 refers to the number of months receiving in a year*/
      m1=m1+1;                                /**the total number of month reveiving in a year****/
    end;
    if countamt(i,j)>=0 then do;           /**NOTE: Rs who do not report receiving are assigned a '-4'***/
      a_&name(i)=a_&name(i) + countamt(i,j);
      a&pre._all = a&pre._all +countamt(i,j);
      n2=n2+1;                                /**the n2 refers to the # of months received money in a year*/
      m2=m2+1;                                /**the total # of months received money over all years*/
    end;
    end;
    if n1 = 0 then &name(i) = -4;
    if n2 = 0 then a_&name(i) = -4;           /**if didn't participate in a program then set equal to '-4'*/
  end;
  if m1=0 then &pre.all=-4;
  if m2 = 0 then a&pre._all=-4;            /**if didn't participate in any years then total set equal to '-4'*/

do i=1 to &years;
  do j=1 to 12;
    if count(i,j) in (-1,-2,-3) then do;   /**when the data have been imputed then give the '-1' or '-2' value to
      &name(i)=count(i,j);                  the total for each year and overall*/
      &name.all=count(i,j);
    end;
    if countamt(i,j) in (-1,-2,-3) then do;
      a_&name(i)=countamt(i,j);
      a&pre._all=countamt(i,j);
    end;
  end;

```

```

end;

*****age14 determination - subtract 1 month so that first month eligible is month turned 14*****
if skey_m>1 then do;
    age14_m=(skey_m-1); age14_d=skey_d; age14_y=skey_y+14;
end;
if skey_m=1 then do;
    age14_m=12; age14_d=skey_d; age14_y=(skey_y+13);
end;

age14dt=INPUT('01'||TRIM(LEFT(put(age14_m,z2.0)))||trim(left(age14_y)),ddmmyy8.);
format age14dt ddmmyy8.;

*****initial date*****
init_m=1; init_d=1; init_y=1980;
init=INPUT('01'||TRIM(LEFT(put(init_m,z2.0)))||trim(left(init_y)),ddmmyy8.);
format init ddmmyy8.;

*****interview date*****
if i900_m<12 then do;
    inter_m=i900_m+1; inter_d=i900_d; inter_y=i900_y;
end;
if i900_m=12 then do;
    inter_m=i900_m; inter_d=i900_d; inter_y=i900_y+1;
end;
inter=INPUT('01'||TRIM(LEFT(put(inter_m,z2.0)))||trim(left(inter_y)),ddmmyy8.);
format inter ddmmyy8.;

*****end date - latest possible month*****
end_m=12; end_d=31; end_y=1998;

enddate=INPUT('01'||TRIM(LEFT(put(end_m,z2.0)))||trim(left(end_y)),ddmmyy8.);
format enddate ddmmyy8.;

*****truncate arrays to the month of the youth's 14th birthday and forward*****
do i=init to age14dt;
    MMM=MONTH(i); YYY=YEAR(i)-1979;
    if age14dt>init then do;
        count(yyy,mmm)=-4; countamt(yyy,mmm)=-4;
    end;
end;

*****turn arrays past interview date to -5s*****
do i=inter to enddate;
    MMM=MONTH(i); YYY=YEAR(i)-1979;
    if enddate>inter then do;
        count(yyy,mmm)=-5; countamt(yyy,mmm)=-5;
    end;
end;

*****turns those not eligible in round 1 to -4s*****
if AFDCALL=0 and noelg=1 then AFDCALL=-4;

****this is to get past the problems found in unclean data***
do i=1 to &years;
    if rec=0 then &name(i)=0;
    if rec=0 then a_&name(i)=-4;

```

```

end;
if rec=0 then AFDCALL=0;
if rec=0 then AA_ALL=-4;

*****correct for R1 invalid skips*****
do i=1 to 19;
  if (pubid=1714 or pubid=6734 or pubid=8405) then &name(i)=-3;
  if (pubid=1714 or pubid=6734 or pubid=8405) then a_&name(i)=-3;
  if (pubid=1714 or pubid=6734 or pubid=8405) then AFDCALL=-3;
  if (pubid=1714 or pubid=6734 or pubid=8405) then AA_ALL=-3;
end;

***** Hand edits for invalid skips in other five arrays:
Food stamps do i=1 to 19;
  if pubid in (1714, 6734, 8405) then &name(i)=-3 and a_&name(i)=-3 and FOODCALL=-3 and
    AF_ALL=-3; end;
LIHEAP do i=to 19;
  if pubid in (1714, 6734, 8405) then &name(i)=-3 and a_&name(i)=-3 and LIHALL=-3 and
    AL_ALL=-3; end;
SSI do i=to 19;
  if pubid in (1714, 6734, 8405) then &name(i)=-3 and a_&name(i)=-3 and SSIALL=-3 and
    AS_ALL=-3; end;
WIC do i=to 19;
  if pubid in (1714, 6734, 8405) then &name(i)=-3 and a_&name(i)=-3 and WICALL=-3 and
    AW_ALL=-3; end;
Other do i=to 19;
  if pubid in (1714, 6734, 8405) then &name(i)=-3 and a_&name(i)=-3 and OTHALL=-3 and
    AO_ALL=-3; end; *****

```

***** This ends the creation of the AFDC month-by-month array *****

***** SECTION 2: SUMMARY VARIABLE CREATION—AMOUNT OF MONEY RECEIVED *****

```
%let pre1=a; %let pre2=f; %let pre3=l; %let pre4=s; %let pre5=o; %let pre6=w;
```

```
merge afdc food ssi wic lih other;
by pubid;
```

```
array a&pre1(19,12)
  a&pre1._80_1-a&pre1._80_12  a&pre1._81_1-a&pre1._81_12  a&pre1._82_1-a&pre1._82_12
  a&pre1._83_1-a&pre1._83_12  a&pre1._84_1-a&pre1._84_12  a&pre1._85_1-a&pre1._85_12
  a&pre1._86_1-a&pre1._86_12  a&pre1._87_1-a&pre1._87_12  a&pre1._88_1-a&pre1._88_12
  a&pre1._89_1-a&pre1._89_12  a&pre1._90_1-a&pre1._90_12  a&pre1._91_1-a&pre1._91_12
  a&pre1._92_1-a&pre1._92_12  a&pre1._93_1-a&pre1._93_12  a&pre1._94_1-a&pre1._94_12
  a&pre1._95_1-a&pre1._95_12  a&pre1._96_1-a&pre1._96_12  a&pre1._97_1-a&pre1._97_12
  a&pre1._98_1-a&pre1._98_12 ;
```

**** a&pre2, a&pre3, a&pre4, a&pre5, and a&pre6, are then arrayed in identical fashion ****

```
array account(19,12)
  at_80_1-at_80_12  at_81_1-at_81_12  at_82_1-at_82_12  at_83_1-at_83_12  at_84_1-at_84_12
  at_85_1-at_85_12  at_86_1-at_86_12  at_87_1-at_87_12  at_88_1-at_88_12  at_89_1-at_89_12
  at_90_1-at_90_12  at_91_1-at_91_12  at_92_1-at_92_12  at_93_1-at_93_12  at_94_1-at_94_12
  at_95_1-at_95_12  at_96_1-at_96_12  at_97_1-at_97_12  at_98_1-at_98_12 ;
```

```
array atotal(19) atotal80 atotal81 atotal82 atotal83 atotal84 atotal85 atotal86 atotal87 atotal88 atotal89 atotal90
atotal91 atotal92 atotal93 atotal94 atotal95 atotal96 atotal97 atotal98;
```

```

do i=1 to 19;
  do j=1 to 12;
    acount(i,j)=0;
    n=0;
    do k=a&pre1(i,j), a&pre2(i,j), a&pre3(i,j), a&pre4(i,j), a&pre5(i,j), a&pre6(i,j);
      if k >=0 then do;
        acount(i,j)= acount(i,j) + k;
        n=n+1;
      end;
    end;
    if n=0 then acount(i,j)=-4;
    do k=a&pre1(i,j), a&pre2(i,j), a&pre3(i,j), a&pre4(i,j), a&pre5(i,j), a&pre6(i,j);
      if k =-2 and acount(i,j) ^= -1 then acount(i,j)= k;
      if k=-1 then acount(i,j)= k;
    end;
  end;
end;

/**initialize amount of months received, by years and total *****/
do i=1 to 19;
  atotal(i)=0;
end;
atall=0;
m=0;

**** calculate the amount of months in total as well in each year receiving AFDC****/
do i=1 to 19;
  n=0;
  do j= 1 to 12;
    if acount(i,j) >=0 then do;
      atotal(i)=atotal(i) + count(i,j);
      atall=atall + count(i,j);
      n=n+1;
      m=m+1;
    end;
  end;
  if n = 0 then atotal(i)=-4;
end;
if m=0 then atall=-4;

do i=1 to 19;
  do j=1 to 12;
    if acount(i,j) in (-1,-2,-3) and atotal(i) ^= -1 then do;
      atotal(i)=acount(i,j);
      atall=acount(i,j);
    end;
  end;
end;

/*correct for invalid skips*/
do i=1 to 19;
  if (pubid=1714 or pubid=6734 or pubid=8405) then atotal(i)=-3 and atall=-3;;
end;

***** SECTION 3: SUMMARY VARIABLE CREATION—MONTHS RECEIVED PAYMENT *****

/**total event history array**/



```

Appendix 5: Income and Assets Variable Creation

```

array count(19,12)
  t_80_1-t_80_12  t_81_1-t_81_12  t_82_1-t_82_12  t_83_1-t_83_12  t_84_1-t_84_12
  t_85_1-t_85_12  t_86_1-t_86_12  t_87_1-t_87_12  t_88_1-t_88_12  t_89_1-t_89_12
  t_90_1-t_90_12  t_91_1-t_91_12  t_92_1-t_92_12  t_93_1-t_93_12  t_94_1-t_94_12
  t_95_1-t_95_12  t_96_1-t_96_12  t_97_1-t_97_12  t_98_1-t_98_12 ;

array total(19) total80 total81 total82 total83 total84 total85 total86 total87 total88 total89 total90 total91
  total92 total93 total94 total95 total96 total97 total98;

/**lists the codes using a priority ranking for programs - for example, (-4, 0, -2, -1, 1) 1 overwrites everything,
-4 is always overwritten, a 0 is overwritten by an unknown answer of -1 or -2. A -3.5 replaces 0 temporarily so that
the priority ranking is easily done in order - then it is changed back to 0**/ 

do i=1 to 19;
  do j=1 to 12;
    if &pre1(i,j)=0 then &pre1(i,j)=-3.5;
    if &pre2(i,j)=0 then &pre2(i,j)=-3.5;
    if &pre3(i,j)=0 then &pre3(i,j)=-3.5;
    if &pre4(i,j)=0 then &pre4(i,j)=-3.5;
    if &pre5(i,j)=0 then &pre5(i,j)=-3.5;
    if &pre6(i,j)=0 then &pre6(i,j)=-3.5;

    count(i,j)= max(&pre1(i,j), &pre2(i,j), &pre3(i,j), &pre4(i,j), &pre5(i,j), &pre6(i,j));
    if count(i,j)=-3.5 then count(i,j)=0;
    if &pre1(i,j)=-3.5 then &pre1(i,j)=0 ;
    if &pre2(i,j)=-3.5 then &pre2(i,j)=0;
    if &pre3(i,j)=-3.5 then &pre3(i,j)=0;
    if &pre4(i,j)=-3.5 then &pre4(i,j)=0;
    if &pre5(i,j)=-3.5 then &pre5(i,j)=0;
    if &pre6(i,j)=-3.5 then &pre6(i,j)=0;
  end;
end;

/**initialize amount of months received, by years and total *****/
do i=1 to 19;
  total(i)=0;
end;
totalall=0;

m=0; /** a counter**/

**** calculate the amount of months in total as well in each year receiving AFDC****

do i=1 to 19;
  n=0;    /** a counter**/
  do j= 1 to 12;
    if count(i,j) >=0 then do;
      total(i)=total(i) + count(i,j);
      totalall=totalall + count(i,j);
      n=n+1;
      m=m+1;
    end;
  end;
  if n=0 then total(i)=-4;  /**if event history has a value of -1, -2, -4 dealt with below**/
end;
if m=0 then totalall=-4;

```

```
/**if both -1 and -2 for a respondent, then total=-1*/
do i=1 to 19;
  do j=1 to 12;
    if count(i,j) in (-1,-2,-3) and total(i) ^=-1 then do;
      total(i)=count(i,j);
      totalall=count(i,j);
    end;
  end;
end;

/*correct for invalid skips*/
do i=1 to 19;
  if (pubid=1714 or pubid=6734 or pubid=8405) then total(i)=-3 and totalall=-3;
end;

endsas;
```

