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Unit D-2: Living conditions and social protection



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# **ECHP UDB Construction of variables**

**From ECHP questions to UDB variables**

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## INTRODUCTION

The ECHP UDB is a collection of datasets that have been derived from answers to questionnaires. The structure of the ECHP UDB is described in the 'ECHP UDB manual' (Doc.PAN. 168).

For each wave of the ECHP, a list of variables and codebook are available (wave 1: Doc.PAN. 15; wave 2: Doc.PAN. 30; wave 3: Doc.PAN. 65; wave 4: Doc.PAN. 81; wave 5: Doc.PAN. 97; wave 6: Doc.PAN. 112; wave 7: Doc.PAN. 151; wave 8: Doc.PAN. 159). These documents contain question wording and corresponding variable names (questionnaire variables) which are necessary for data processing.

The document 'ECHP UDB description of variables' (Doc.PAN. 166), lists the variables in the ECHP UDB. It also provides the codes and labels for these variables.

This document describes the linkage between the questionnaire variables and the UDB variables.

Remark concerning variable names for wave 2: questionnaire variable names are shorter (6 digits) than in subsequent waves (7 digits). This means that when reading the construction of a variable, the last digit of the questionnaire variables should be ignored for wave 2 (e.g. for wave 3 H0i1320 corresponds to H031320, for wave 2 to H02132).



**HOUSEHOLD FILE**



## **HG - GENERAL INFORMATION**

**WAVE***wave i (i<sup>3</sup> 1)*

	i
--	---

**COUNTRY***wave i (i<sup>3</sup> 1)*

	D0iCNTRY
--	----------

**HID***wave i (i<sup>3</sup> 1)*

	D0iHHID * 100 + D0iSPLIT
--	--------------------------

**HG001***wave 1*

D01FID01 in (1101, ..., 99999997796)	D01FID01
else	-9

*wave i (i<sup>3</sup> 2)*

D0iREFP in (1, ..., 96)	R0iPFXID (R0iPLINE = D0iREFP)
else	-9

**HG002***wave 1*

	-8
--	----

*wave i (i<sup>3</sup> 2)*

D0iRACC in (1, ..., 96)	R0iPFXID (R0iPLINE = D0iRACC)
else	-9



**HG003***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

D0iRESP in (1, ..., 96)	R0iPFXID (R0iPLINE = D0iRESP)
else	-9

**HG004**

For information on the construction of weights see Doc.PAN.165.

**HG005***wave i (i ≥ 1)*

D0iSMST2 in (1, ..., 9996)	D0iSMST2 (anonymised)
D0iSMST2 in (9997,.)	HG005 (i-1)
D0iSMST2 = 9999	-9

**HG006***wave i (i ≥ 1)*

D0iSMST3 in (1, ..., 9996)	D0iSMST3 (anonymised)
D0iSMST3 in (9997,.)	HG006 (i-1)
D0iSMST3 = 9999	-9

**HG007***wave i (i ≥ 1)*

D0iSMST4 in (1, ..., 9996)	D0iSMST4 (anonymised)
D0iSMST4 in (9997,.)	HG007 (i-1)
D0iSMST4 = 9999	-9

**HG010***wave i (i = 1)*

D01HCONT in (0, ..., 96)	D01HCONT
D01HCONT in (97,..)	-8
D01HCONT = 99	-9

*wave i (i <sup>3</sup> 2)*

D0iVISIT in (0, ..., 96)	D0iVISIT
D0iVISIT in (97,..)	-8
D0iVISIT = 99	-9

**HG011***wave 1*

H01120 in (1, ..., 990)	H01120
H01120 in (997,..)	-8
H01120 = 999	-9

*wave i (i <sup>3</sup> 2)*

H0i1320 in (1, ..., 990)	H0i1320
H0i1320 in (997,..)	-8
H0i1320 = 999	-9

**HG012***wave 1*

H01121 in (1, ..., 31)	H01121
H01121 in (97,..)	-8
H01121 = 99	-9

*wave i (i <sup>3</sup> 2)*

H0i1330 in (1, ..., 31)	H0i1330
H0i1330 in (97,..)	-8
H0i1330 = 99	-9

**HG013***wave 1*

H01122 in (1, ..., 12)	H01122
H01122 in (97,.)	-8
H01122 = 99	-9

*wave i (i<sup>3</sup> 2)*

H0i1340 in (1, ..., 12)	H0i1340
H0i1340 in (97,.)	-8
H0i1340 = 99	-9

**HG014***wave 1*

H01123 in (1994, 1995)	H01123
H01123 in (9997,.)	-8
H01123 = 9999	-9

*wave i (i<sup>3</sup> 2)*

H0i1350 in (1993+i, 1994+i)	H0i1350
H0i1350 in (9997,.)	-8
H0i1350 = 9999	-9

**HG015***wave i (i<sup>3</sup> 1)*

	HREGIONi (link file)
--	----------------------

## HG016

*wave i (i ∈ 6)*

	-8
--	----

*wave i (i ∈ 7)*

H0i0074 in (1,2,3)	H0i0074
H0i0074 in (7,..)	-8
H0i0074 = 9	-9

## HG017

*wave i (i ∈ 6)*

	-8
--	----

*wave i (i ∈ 7)*

H0i0075 in (1,2,3)	H0i0075
H0i0075 in (7,..)	-8
H0i0075 = 9	-9

## **HD - DEMOGRAPHIC INFORMATION**

## HD001

wave  $i$  ( $i \geq 1$ )

	D0iHSIZE
--	----------

## HD002

wave  $i$  ( $i \geq 1$ )

D0iHS16 in (0, ..., 96)	D0iHS16
else	-9

## HD002A

wave  $i$  ( $i \geq 1$ )

D0iINDIN in (0, ..., 96)	D0iINDIN
else	-9

## HD003

wave  $i$  ( $i \geq 1$ )

If the age of all household members is known (i.e. RD003 $\neq$ -9)	$\#\{R\text{-file records with RD003} \geq 14\}$
else	-9

## HD004

wave  $i$  ( $i \geq 1$ )

HD003 $\geq 0$	$1+0.7*(HD003-1)+0.5*(HD001-HD003)$
else	-9

## HD005

wave  $i$  ( $i \geq 1$ )

HD003 $\geq 0$	$1+0.5*(HD003-1)+0.3*(HD001-HD003)$
else	-9

## HD006

wave  $i$  ( $i \geq 1$ )

The construction of the household type is based on the relationship file and the register file (r-file).

To the relationship file add the following variables from the register:

age1 the age of the person with PID1

age2 the age of the person with PID2

For households with exactly 1 couple, with children (own or adopted or step or foster), without any other relatives (grand children, children in law, other relatives) but with at least one relation 'unrelated' or 'unknown', adapt the relations from the relationship file as follows:

Step 1: If an individual is a child (relation=2 or 3) of one person in the couple, it will be considered as the child (relation=2) of the other person as well, even if they are not related or if the relation is 'unknown'.

Step 2: If two individuals are children of a couple, they will be considered as being siblings (relation=4) even if they are not related or if the relation between them is 'unknown'.

For each household with 3 or more members calculate the following

R1 the number of records with relation=1

....

R9 the number of records with relation=9

Rmiss the number of records with relation=-9

C16 the number of records with relation=2 or 3 and age2 $\geq$ 16 (if for a record age2 = -9, i.e. the age of the child is unknown, and no other child is known to be at least 16, then C16=-9)

For all households determine the total number of records N

N = R1+...+R9+Rmiss, for households with 3 or more members

=1, for households with 1 or 2 members

N=1	relation=0		age1 = -9		-9			
			age1 ≥ 65		1			
			30 ≤ age1 < 65		2			
			age1 < 30		3			
	relation=2,3		age2 = -9		-9			
			age2 < 16		4			
			age2 ≥ 16		5			
	relation=1		age1 = -9 or age2=-9		-9			
			age1 ≥ 65 or age2 ≥ 65		6			
			age1 < 65 and age2 < 65		7			
relation=4,...,9					12			
relation=-9					-9			
N>1	R6+...+R9>0					12		
	R6+...+R9=0		Rmiss>0			-9		
			Rmiss=0	R1=0	Kids=R2+R3 and R4+R5 = Kids*(Kids-1)/2		C16=0	4
							C16>0	5
							C16=-9	-9
					else		12	
				R1=1	R2+R3=2 and R4+R5=0		C16=0	8
							C16>0	11
							C16=-9	-9
					R2+R3=4 and R4+R5=1		C16=0	9
							C16>0	11
							C16=-9	-9
					Kids=(R2+R3)/2 and R4+R5 = Kids*(Kids-1)/2		C16=0	10
							C16>0	11
							C16=-9	-9
					else		12	
					R1>1		12	

## HD006A

wave  $i$  ( $i \geq 1$ )

Step 1: Classify individuals in

Dependent child	if the individual is less than 16 years old ( $RD003 < 16$ or $PELIGi = 2$ ) or if the individual is aged 16 to 24 ( $16 \leq RD003 \leq 24$ ) and it lives together with a parent in the same household and, its ILO activity status is 'inactive' (i.e. $PE003 = 4,5$ ) or, if $PE003$ is missing, it is not working 15 hours or more according to register information ( $RD005 = 2$ )
Adult	if the individual is aged 25 or more ( $RD003 \geq 25$ ) or if the individual is aged 16 to 24 ( $16 \leq RD003 \leq 24$ ) and it lives together with a parent in the same household and, its ILO activity status is 'active' (i.e. $PE003 = 1,2,3$ ) or, if $PE003$ is missing, it is working 15 hours or more according to register information ( $RD005 = 1$ ) if the individual is aged 16 to 24 ( $16 \leq RD003 \leq 24$ ) and none of his parents live in the same household
Missing	if the individual is aged 16 to 24 ( $16 \leq RD003 \leq 24$ and $PELIGi = 1$ ) and it lives together with a parent in the same household and neither the ILO activity status (i.e. $PE003 = -9$ or .) nor register information are known ( $RD005 < 0$ )

Step 2: For each household calculate the following

Adults	the number of adults
Children	the number of dependent children
Missing	the number of missing

Step 3: Define HD006A

Missing = 0	Children = 0	Adults = 1	sex1 = 1	RD003 < 30	1	
				30 ≤ RD003 < 65	2	
				65 ≤ RD003	3	
			sex1 = 2	RD003 < 30	4	
				30 ≤ RD003 < 65	5	
				65 ≤ RD003	6	
		Adults = 2	max ( RD003 in the household ) ≥ 65		7	
			max ( RD003 in the household ) < 65		8	
		Adults ≥ 3				9
		Children ≥ 1	Adults = 1			
	Adults = 2		Children = 1		11	
			Children = 2		12	
			Children ≥ 3		13	
	Adults ≥ 3				14	
Missing ≥ 1	Children ≥ 1 and Adults ≥ 3				14	
	else				-9	



**HD006B**

wave  $i$  ( $i^3 1$ )

Steps 1 and 2: see HD006A

Step 3: Define HD006B

Missing = 0	Children = 0	Adults = 1	sex1 = 1	RD003 < 65	1	
				65 ≤ RD003	2	
			sex1 = 2	RD003 < 65	3	
				65 ≤ RD003	4	
		Adults = 2	max ( RD003 in the household ) < 65		5	
			min ( RD003 in the household ) < 65		6	
			min ( RD003 in the household ) ≥ 65		7	
		Adults ≥ 3				9
		Children ≥ 1	Adults = 1		10	
			Adults = 2	Children = 1	11	
	Children = 2			12		
	Children ≥ 3			13		
	Adults ≥ 3				14	
	Missing ≥ 1	Children ≥ 1 and Adults ≥ 3				14
else				-9		

**HD007**

wave 1

	-8
--	----

wave  $i$  ( $i^3 2$ )

	HMOUTi (link-file)
--	--------------------

**HD008**

wave 1

	-8
--	----

wave  $i$  ( $i^3 2$ )

	HDIEDi (link-file)
--	--------------------

HD009

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

	HMINi (link-file)
--	-------------------

HD010

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

	HBORNi (link-file)
--	--------------------

## HD011

*wave 1*

	-8
--	----

*wave i (i<sup>3</sup> 2)*

	HOMITi (link-file)
--	--------------------

## HD012

*wave i (i<sup>3</sup> 1)*

	# {P-file records with PE003 in (1,2)}
--	--

## HD013

*wave i (i<sup>3</sup> 1)*

	# {P-file records with PE003 in (1,2,3)}
--	--



## **HI - INCOME**

See Doc.PAN. 164 for construction and imputation of income variables.



## **HF - FINANCIAL SITUATION**

## HF001

wave 1

H01056 = 1	H01057 in (1,2,3)	H01057
	H01057 in (7,9,..)	4
H01056 = 2		5
H01056 in (7,..)		-8
H01056 = 9		-9

wave  $i$  ( $i \geq 2$ )

H0i0580 = 1	H0i0590 in (1,2,3)	H0i0590
	H0i0590 in (7,9,..)	4
H0i0580 = 2		5
H0i0580 in (7,..)		-8
H0i0580 = 9		-9

## HF002

wave 1

H01058 in (1, ..., 6)	H01058
H01058 in (7,..)	-8
H01058 = 9	-9

wave  $i$  ( $i \geq 2$ )

H0i0600 in (1, ..., 6)	H0i0600
H0i0600 in (7,..)	-8
H0i0600 = 9	-9

## HF003

wave 1

H01059 in (1,2)	H01059
H01059 in (7,..)	-8
H01059 = 9	-9

wave  $i$  ( $i \geq 2$ )

H0i0610 in (1,2)	H0i0610
H0i0610 in (7,..)	-8
H0i0610 = 9	-9



**HF004***wave 1*

H01060 in (1,2)	H01060
H01060 in (7,.)	-8
H01060 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0620 in (1,2)	H0i062 0
H0i0620 in (7,.)	-8
H0i0620 = 9	-9

**HF005***wave 1*

H01061 in (1,2)	H01061
H01061 in (7,.)	-8
H01061 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0630 in (1,2)	H0i063 0
H0i0630 in (7,.)	-8
H0i0630 = 9	-9

**HF006***wave 1*

H01062 in (1,2)	H01062
H01062 in (7,.)	-8
H01062 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0640 in (1,2)	H0i064 0
H0i0640 in (7,.)	-8
H0i0640 = 9	-9

**HF007***wave 1*

H01063 in (1,2)	H01063
H01063 in (7,.)	-8
H01063 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0650 in (1,2)	H0i065 0
H0i0650 in (7,.)	-8
H0i0650 = 9	-9

**HF008***wave 1*

H01064 in (1,2)	H01064
H01064 in (7,.)	-8
H01064 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0660 in (1,2)	H0i066 0
H0i0660 in (7,.)	-8
H0i0660 = 9	-9

**HF009***wave 1*

H01065 in (1,2)	H01065
H01065 in (7,.)	-8
H01065 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0670 in (1,2)	H0i067 0
H0i0670 in (7,.)	-8
H0i0670 = 9	-9

**HF010***wave 1*

H01066 in (1,2)	H01066
H01066 in (7,.)	-8
H01066 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0680 in (1,2)	H0i068 0
H0i0680 in (7,.)	-8
H0i0680 = 9	-9

**HF011***wave 1*

H01067 in (1,2)	H01067
H01067 in (7,.)	-8
H01067 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0690 in (1,2)	H0i069 0
H0i0690 in (7,.)	-8
H0i0690 = 9	-9

**HF012***wave 1*

H01068 in (1,2)	H01068
H01068 in (7,.)	-8
H01068 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0700 in (1,2)	H0i070 0
H0i0700 in (7,.)	-8
H0i0700 = 9	-9

**HF013***wave 1*

H01079 in (1,2)	H01079
H01079 in (7,.)	-8
H01079 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0870 in (1,2)	H0i087 0
H0i0870 in (7,.)	-8
H0i0870 = 9	-9

**HF014***wave 1*

H01080 in (1, ..., 999999990)	H01080
H01080 in (999999997,.)	-8
H01080 = 999999999	-9

*wave i (i <sup>3</sup> 2)*

H0i0880 in (1, ..., 999999990)	H0i088 0
H0i0880 in (999999997,.)	-8
H0i0880 = 999999999	-9

**HF015***wave 1*

H01081 in (1, ..., 5)	H01081
H01081 in (7,.)	-8
H01081 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0890 in (1, ..., 5)	H0i089 0
H0i0890 in (7,.)	-8
H0i0890 = 9	-9

## HF016A

## wave 1

H01082 = 1	H01084 = 1 or H01086 = 1 or ... or H01106 =1 or H01108 in (1, ..., 14)	1
	H01084 = 2 and H01086 = 2 and ... and H01106 =2	2
	H01084 in (7,.) and H01086 in (7,.) and ... and H01106 in (7,.)	-8
	H01084 = 9 or H01086 = 9 or ... or H01106 =9	-9
H01082 = 2		2
H01082 in (7,.)		-8
H01082 = 9		-9

## wave 2

H02090 = 1	H02107 in (1,2)	H02107
	H02107 in (7,.)	-8
	H02107 = 9	-9
H02090 = 2		2
H02090 in (7,.)		-8
H02090 = 9		-9

wave  $i$  ( $i \geq 3$ )

H0i1070 in (1,2)	H0i1070
H0i1070 in (7,.)	-8
H0i1070 = 9	-9

**HF016B***wave 1*

Step 1: Count the number N of variables H01084, H01086, H01088, H01090, H01090, H01092, H01094, H01096, H01098, H01100, H01102, H01104, H01106 which have value 1.

Step 2:

HF016A = 1	N > 0		N
	N = 0	H01108 in (1 ... 14)	H01108
		H01108 in (97,..)	-8
		H01108 = 99	-9
else			-8

*wave 2*

Step 1: Count the number N of variables H02110 ... H02121 which have value 1.

Step 2:

HF016A = 1	H02108 = 1	H02110 = 9 or ... H02121 = 9	-9
		else	N
	H02108 in (2,9)	H02109 in (1 ... 14)	H02109
		H02109 in (97,..)	-8
		H02109 = 99	-9
else			-8

*wave i (i <sup>3</sup> 3)*

HF016A = 1	H0i1090 in (1 ... 14)	H0i1090
	H0i1090 in (97,..)	-8
	H0i1090 = 99	-9
else		-8

**HF017***wave 1*

H01114 in (1,2)	H01114
H01114 in (7,..)	-8
H01114 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i1260 in (1,2)	H0i1260
H0i1260 in (7,..)	-8
H0i1260 = 9	-9

**HF018***wave 1*

HF017 = 1	H01115 in (1,2,3)	H01115
	H01115 in (7,.)	-8
	H01115 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HF017 = 1	H0i1270 in (1,2,3)	H0i1270
	H0i1270 in (7,.)	-8
	H0i1270 = 9	-9
else		-8

**HF018A***wave 1*

H01116 in (1,2)	H01116
H01116 in (7,.)	-8
H01116 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i1280 in (1,2)	H0i1280
H0i1280 in (7,.)	-8
H0i1280 = 9	-9

**HF019***wave 1*

H01117 in (1,2)	H01117
H01117 in (7,.)	-8
H01117 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i1290 in (1,2)	H0i1290
H0i1290 in (7,.)	-8
H0i1290 = 9	-9

**HF020***wave 1*

H01118 in (1,2)	H01118
H01118 in (7,.)	-8
H01118 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i1300 in (1,2)	H0i130 0
H0i1300 in (7,.)	-8
H0i1300 = 9	-9

**HF021***wave 1*

H01119 in (1,2,3)	H01119
H01119 in (7,.)	-8
H01119 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i1310 in (1,2,3)	H0i131 0
H0i1310 in (7,.)	-8
H0i1310 = 9	-9



**HA - ACCOMMODATION**

## HA001

wave 1

H01001 = 1		1994
H01001 = 2		1993
H01001 = 3	H01002 in (1900 ... 1979)	1979
	H01002 in (1980 ... 1992)	H01002
	H01002 in (9997,..)	-8
	H01002 = 9999	-9
H01001 = 4		1979
H01001 in (7,..)		-8
H01001 = 9		-9

wave  $i$  ( $i \geq 2$ )

H0i0010 = 1			HA001 (i-1)
H0i0010 in (2,7,9,..)	H0i0020 = 1		1993+i
	H0i0020 = 2		1992+i
	H0i0020 = 3	H0i0040 in (1900 ... 1979)	1979
		H0i0040 in (1980 ... 1991+i)	H0i0040
		H0i0040 in (9997,..)	-8
		H0i0040 = 9999	-9
	H0i0020 in (7,..)		-8
	H0i0020 = 9		-9

## HA002

wave 1

		-8
--	--	----

wave  $i$  ( $i \geq 2$ )

H0i0010 = 1			HA002 (i-1)
H0i0010 in (2,7,9,..)	H0i0020 in (1,2)	H0i0030 in (1 ... 12)	H0i0030
		H0i0030 in (97,..)	-8
		H0i0030 = 99	-9
	H0i0020 in (3,7,..)		-8
	H0i0020 = 9		-9

**HA003***wave 1*

H01001 in (1,2,9,.)	H01003 in (1,2,3)	H01003
	H01003 in (7,.)	-8
	H01003 = 9	-9
H01001 in (3,4,7)		-8

*wave i (i <sup>3</sup> 2)*

H0i0010 = 1			HA003 (i-1)
H0i0010 in (2,7,9,..)	H0i0020 in (1,2,9,..)	H0i0050 in (1,2,3)	H0i0050
		H0i0050 in (7,..)	-8
		H0i0050 = 9	-9
	H0i0020 in (3,7)		-8

**HA004***wave 1*

H01001 in (1,2,9,.)	H01004 in (1,2,3)	H01004
	H01004 in (7,.)	-8
	H01004 = 9	-9
H01001 in (3,4,7)		-8

*wave i (i <sup>3</sup> 2)*

H0i0010 = 1			HA004 (i-1)
H0i0010 in (2,7,9,..)	H0i0020 in (1,2,9,..)	H0i0060 in (1,2,3)	H0i0060
		H0i0060 in (7,..)	-8
		H0i0060 = 9	-9
	H0i0020 in (3,7)		-8

**HA005***wave 1*

H01005 in (1,2,3,4,5)	H01005
H01005 in (7,.)	-8
H01005 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0010 = 1		HA005 (i-1)
H0i0010 in (2,7,9,.)	H0i0070 in (1,2,3,4,5)	H0i0070
	H0i0070 in (7,.)	-8
	H0i0070 = 9	-9

## HA006

wave 1

H01006 in (1 ... 8)	H01006
H01006 in (9 ... 96)	9
H01006 in (97,..)	-8
H01006 = 99	-9

wave  $i$  ( $i \geq 2$ )

H0i0080 in (1 ... 8)	H0i0080
H0i0080 in (9 ... 96)	9
H0i0080 in (97,..)	-8
H0i0080 = 99	-9

## HA006A

wave  $i$  ( $i \geq 1$ )

HA006 in (7,8,9)	6
else	HA006

## HA007

wave 1

HA006 = -8		HA006
HA006 = -9	H01007 in (7,..)	-8
	else	-9
else	H01007 = 1	HA006 + 1
	H01007 = 2	HA006
	H01007 in (7,..)	-8
	H01007 = 9	-9

wave  $i$  ( $i \geq 2$ )

HA006 = -8		HA006
HA006 = -9	H0i0090 in (7,..)	-8
	else	-9
else	H0i0090 = 1	HA006 + 1
	H0i0090 =2	HA006
	H0i0090 in (7,..)	-8
	H0i0090 = 9	-9

**HA007A***wave i (i <sup>3</sup> 1)*

HA007 in (8,9,10)	7
else	HA007

**HA008***wave 1*

H01007 in (1,2)	H01007
H01007 in (7,.)	-8
H01007 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0090 in (1,2)	H0i0090
H0i0090 in (7,.)	-8
H0i0090 = 9	-9

**HA009***wave 1*

H01008 in (1,2)	H01008
H01008 in (7,.)	-8
H01008 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0100 in (1,2)	H0i0100
H0i0100 in (7,.)	-8
H0i0100 = 9	-9

**HA010***wave 1*

H01009 in (1,2)	H01009
H01009 in (7,.)	-8
H01009 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0110 in (1,2)	H0i0110
H0i0110 in (7,.)	-8
H0i0110 = 9	-9

**HA011***wave 1*

H01010 in (1,2)	H01010
H01010 in (7,.)	-8
H01010 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0120 in (1,2)	H0i0120
H0i0120 in (7,.)	-8
H0i0120 = 9	-9

**HA012***wave 1*

H01011 in (1,2)	H01011
H01011 in (7,.)	-8
H01011 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0130 in (1,2)	H0i0130
H0i0130 in (7,.)	-8
H0i0130 = 9	-9

**HA013***wave 1*

H01012 in (1,2)	H01012
H01012 in (7,.)	-8
H01012 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0140 in (1,2)	H0i0140
H0i0140 in (7,.)	-8
H0i0140 = 9	-9

**HA014***wave 1*

H01013 in (1,2)	H01013
H01013 in (7,.)	-8
H01013 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0150 in (1,2)	H0i0150
H0i0150 in (7,.)	-8
H0i0150 = 9	-9

**HA015***wave 1*

H01014 in (1,2)	H01014
H01014 in (7,.)	-8
H01014 = 9	-9

*wave 2*

H02016 in (1,2)	H02016
H02016 in (7,.)	-8
H02016 = 9	-9

*wave i (i <sup>3</sup> 3)*

HA015A = 1 or HA015B = 1	1
HA015A = 2 and HA015B = 2	2
HA015A = -9 or HA015B = -9	-9
HA015A = -8 or HA015B = -8	-8

**HA015A***wave 1 and 2*

	-8
--	----

*wave i (i <sup>3</sup> 3)*

H0i0160 in (1,2)	H0i0160
H0i0160 in (7,.)	-8
H0i0160 = 9	-9

**HA015B***wave 1 and 2*

	-8
--	----

*wave i (i<sup>3</sup> 3)*

H0i0165 in (1,2)	H0i0165
H0i0165 in (7,.)	-8
H0i0165 = 9	-9

**HA016***wave 1*

H01015 in (1,2)	H01015
H01015 in (7,.)	-8
H01015 = 9	-9

*wave i (i<sup>3</sup> 2)*

H0i0170 in (1,2)	H0i0170
H0i0170 in (7,.)	-8
H0i0170 = 9	-9

**HA017***wave 1*

H01016 in (1,2)	H01016
H01016 in (7,.)	-8
H01016 = 9	-9

*wave i (i<sup>3</sup> 2)*

H0i0180 in (1,2)	H0i0180
H0i0180 in (7,.)	-8
H0i0180 = 9	-9



**HA018***wave 1*

H01017 in (1,2)	H01017
H01017 in (7,.)	-8
H01017 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0190 in (1,2)	H0i0190
H0i0190 in (7,.)	-8
H0i0190 = 9	-9

**HA019***wave 1*

H01018 in (1,2)	H01018
H01018 in (7,.)	-8
H01018 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0200 in (1,2)	H0i0200
H0i0200 in (7,.)	-8
H0i0200 = 9	-9

**HA020***wave 1*

H01019 in (1,2)	H01019
H01019 in (7,.)	-8
H01019 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0210 in (1,2)	H0i0210
H0i0210 in (7,.)	-8
H0i0210 = 9	-9

**HA021***wave 1*

H01020 in (1,2)	H01020
H01020 in (7,.)	-8
H01020 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0220 in (1,2)	H0i0220
H0i0220 in (7,.)	-8
H0i0220 = 9	-9

**HA022***wave 1*

H01021 in (1,2)	H01021
H01021 in (7,.)	-8
H01021 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0230 in (1,2)	H0i0230
H0i0230 in (7,.)	-8
H0i0230 = 9	-9

**HA023***wave 1*

H01022 in (1,2,3)	H01022
H01022 in (7,.)	-8
H01022 = 9	-9

*wave i (i <sup>3</sup> 2)*

H0i0240 in (1,2,3)	H0i0240
H0i0240 in (7,.)	-8
H0i0240 = 9	-9

**HA024A***wave 1*

HA023 = 1	H01023 in (1,2)	H01023
	H01023 in (7,.)	-8
	H01023 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 1	H0i0250 in (1,2)	H0i0250
	H0i0250 in (7,.)	-8
	H0i0250 = 9	-9
else		-8

**HA024B***wave 1*

HA024A = 1	H01024 in (1 ... 999999990)	H01024
	H01024 in (999999997,.)	-8
	H01024 = 999999999	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA024A = 1	H0i0260 in (1 ... 999999990)	H0i0260
	H0i0260 in (999999997,.)	-8
	H0i0260 = 999999999	-9
else		-8

**HA025***wave 1*

HA024B > 0	H01025 in (1,2)	H01025
	H01025 in (7,.)	-8
	H01025 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA024B > 0	H0i0270 in (1,2)	H0i0270
	H0i0270 in (7,.)	-8
	H0i0270 = 9	-9
else		-8

## HA026

wave 1

HA023 = 2	H01028 in (1,2,3)	H01028
	H01028 in (7,.)	-8
	H01028 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

HA023 = 2	H0i0300 in (1,2)	H0i0300
	H0i0300 in (7,.)	-8
	H0i0300 = 9	-9
else		-8

## HA027

See Doc.PAN. 103 for imputed rent.

## HA029

wave 1

HA023 = 2	H01031 in (1,2)	H01031
	H01031 in (7,.)	-8
	H01031 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

HA023 = 2	H0i0330 in (1,2)	H0i0330
	H0i0330 in (7,.)	-8
	H0i0330 = 9	-9
else		-8

**HA030***wave 1*

HA023 = 2	H01032 in (1,2)	H01032
	H01032 in (7,.)	-8
	H01032 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 2	H0i0340 in (1,2)	H0i0340
	H0i0340 in (7,.)	-8
	H0i0340 = 9	-9
else		-8

**HA031***wave 1*

HA023 = 2	H01033 in (1,2)	H01033
	H01033 in (7,.)	-8
	H01033 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 2	H0i0350 in (1,2)	H0i0350
	H0i0350 in (7,.)	-8
	H0i0350 = 9	-9
else		-8

**HA032***wave 1*

HA023 = 2	H01034 in (1,2)	H01034
	H01034 in (7,.)	-8
	H01034 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 2	H0i0360 in (1,2)	H0i0360
	H0i0360 in (7,.)	-8
	H0i0360 = 9	-9
else		-8

**HA033***wave 1*

HA023 = 2	H01035 in (1,2)	H01035
	H01035 in (7,.)	-8
	H01035 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 2	H0i0370 in (1,2)	H0i0370
	H0i0370 in (7,.)	-8
	H0i0370 = 9	-9
else		-8

**HA034***wave 1*

HA023 = 2	H01036 in (1,2)	H01036
	H01036 in (7,.)	-8
	H01036 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 2	H0i0380 in (1,2)	H0i0380
	H0i0380 in (7,.)	-8
	H0i0380 = 9	-9
else		-8

**HA035***wave 1*

HA023 = 2	H01037 in (1,2)	H01037
	H01037 in (7,.)	-8
	H01037 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

HA023 = 2	H0i0390 in (1,2)	H0i0390
	H0i0390 in (7,.)	-8
	H0i0390 = 9	-9
else		-8

**HA036***wave 1*

HA023 in (1, -9)	H01026 in (1,2,3)	H01026
	H01026 in (7,.)	-8
	H01026 = 9	-9
HA023 = 2	H01038 in (1,2,3)	H01038
	H01038 in (7,.)	-8
	H01038 = 9	-9
HA023 in (3,-8)		-8

*wave i (i ≥ 2)*

HA023 in (1, -9)	H0i0280 in (1,2,3)	H0i0280
	H0i0280 in (7,.)	-8
	H0i0280 = 9	-9
HA023 = 2	H0i0400 in (1,2,3)	H0i0400
	H0i0400 in (7,.)	-8
	H0i0400 = 9	-9
HA023 in (3,-8)		-8





**HB - DURABLES**

**HB001***wave 1*

H01042 = 1		1
H01042 = 2	H01043 = 1	2
	H01043 = 2	3
	H01043 in (7,9,.)	4
H01042 in (7,.)		-8
H01042 = 9		-9

*wave i (2 ≤ i ≤ 6)*

H0i0440 = 1		1
H0i0440 = 2	H0i0450 = 1	2
	H0i0450 = 2	3
	H0i0450 in (7,9,.)	4
H0i0440 in (7,.)		-8
H0i0440 = 9		-9

*wave i (i ≥ 7)*

H0i0440 = 1		1
else	H0i0455 = 1	
	H0i0455 = 2	H0i0456 = 1
		H0i0456 = 2
		H0i0456 in (7,9,..)
		H0i0455 in (7,..)
	H0i0455 = 9	

**HB001A***wave i (i ≤ 6)*

	-8
--	----

*wave i (i ≥ 7)*

H0i0440 in (1,2)	H0i0440
H0i0440 in (7,.)	-8
H0i0440 = 9	-9

**HB002***wave 1*

H01044 = 1		1
H01044 = 2	H01045 = 1	2
	H01045 = 2	3
	H01045 in (7,9,.)	4
H01044 in (7,.)		-8
H01044 = 9		-9

*wave i (i <sup>3</sup> 2)*

H0i0460 = 1		1
H0i0460 = 2	H0i0470 = 1	2
	H0i0470 = 2	3
	H0i0470 in (7,9,.)	4
H0i0460 in (7,.)		-8
H0i0460 = 9		-9

**HB003***wave 1*

H01046 = 1		1
H01046 = 2	H01047 = 1	2
	H01047 = 2	3
	H01047 in (7,9,.)	4
H01046 in (7,.)		-8
H01046 = 9		-9

*wave i (i <sup>3</sup> 2)*

H0i0480 = 1		1
H0i0480 = 2	H0i0490 = 1	2
	H0i0490 = 2	3
	H0i0490 in (7,9,.)	4
H0i0480 in (7,.)		-8
H0i0480 = 9		-9

## HB004

wave 1

H01048 = 1		1
H01048 = 2	H01049 = 1	2
	H01049 = 2	3
	H01049 in (7,9,.)	4
H01048 in (7,.)		-8
H01048 = 9		-9

wave 2

H02050 = 1		1
H02050 = 2	H02051 = 1	2
	H02051 = 2	3
	H02051 in (7,9,.)	4
H02050 in (7,.)		-8
H02050 = 9		-9

wave  $i$  ( $i \geq 3$ )

H0i0500 = 1		1
H0i0500 = 2	H0i0505 = 1	2
	H0i0505 = 2	3
	H0i0505 in (7,9,.)	4
H0i0500 in (7,.)		-8
H0i0500 = 9		-9

## HB005

wave 1

H01050 = 1		1
H01050 = 2	H01050 = 1	2
	H01050 = 2	3
	H01050 in (7,9,.)	4
H01050 in (7,.)		-8
H01050 = 9		-9

wave  $i$  ( $i \geq 2$ )

H0i0520 = 1		1
H0i0520 = 2	H0i0530 = 1	2
	H0i0530 = 2	3
	H0i0530 in (7,9,.)	4
H0i0520 in (7,.)		-8
H0i0520 = 9		-9

## HB006

wave 1

H01052 = 1		1
H01052 = 2	H01053 = 1	2
	H01053 = 2	3
	H01053 in (7,9,.)	4
H01052 in (7,.)		-8
H01052 = 9		-9

wave i (i <sup>3</sup> 2)

H0i0540 = 1		1
H0i0540 = 2	H0i0550 = 1	2
	H0i0550 = 2	3
	H0i0550 in (7,9,.)	4
H0i0540 in (7,.)		-8
H0i0540 = 9		-9

## HB007

wave 1

H01054 = 1		1
H01054 = 2	H01055 = 1	2
	H01055 = 2	3
	H01055 in (7,9,.)	4
H01054 in (7,.)		-8
H01054 = 9		-9

wave i (i <sup>3</sup> 2)

H0i0560 = 1		1
H0i0560 = 2	H0i0570 = 1	2
	H0i0570 = 2	3
	H0i0570 in (7,9,.)	4
H0i0560 in (7,.)		-8
H0i0560 = 9		-9

## HB008

wave 1 and 2

		-8
--	--	----

wave i (i <sup>3</sup> 3)

H0i0510 = 1		1
H0i0510 = 2	H0i0515 = 1	2
	H0i0515 = 2	3
	H0i0515 in (7,9,.)	4
H0i0510 in (7,.)		-8
H0i0510 = 9		-9



**HL - CHILDREN**

## HL001

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

H0i0710 in (1,2)	H0i0710
H0i0710 in (7,.)	-8
H0i0710 = 9	-9

## HL002

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

HL001 =1	H0i0720 in (1,2)	H0i0720
	H0i0720 in (7,.)	-8
	H0i0720 = 9	-9
else		-8

## HL003

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

HL002 =1	H0i0730 in (1,2)	H0i0730
	H0i0730 in (7,.)	-8
	H0i0730 = 9	-9
else		-8

## HL004

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

H0i0740 in (1,2)	H0i0740
H0i0740 in (7,.)	-8
H0i0740 = 9	-9



HL005

*wave 1*

	-8
--	----

*wave i (i ≥ 2)*

HL001 =1 or HL004 = 1	H0i0750 in (1,2)	H0i0750
	H0i0750 in (7,..)	-8
	H0i0750 = 9	-9
else		-8



**PERSONAL FILE**



## **PG - GENERAL INFORMATION**

**WAVE***wave i (i<sup>3</sup> 1)*

	i
--	---

**COUNTRY***wave i (i<sup>3</sup> 1)*

	P0iCNTRY
--	----------

**HID***wave i (i<sup>3</sup> 1)*

	HIDi ( link file )
--	--------------------

**PID***wave i (i<sup>3</sup> 1)*

	P0iPFXID
--	----------

**PG001***wave i (i<sup>3</sup> 1)*

	D0iHHID
--	---------

**PG002**

For information on the construction of weights see Doc.PAN.165.

**PG003**

For information on the construction of weights see Doc.PAN.165.

**PG004***wave 1*

P01359 in (0, ..., 990)	P01359
P01359 in (997,..)	-8
P01359 = 999	-9

*wave i (i <sup>3</sup> 2)*

P0i4000 in (0, ..., 990)	P0i4000
P0i4000 in (997,..)	-8
P0i4000 = 999	-9

**PG005***wave 1*

P01360 in (1, ..., 31)	P01360
P01360 in (97,..)	-8
P01360 = 99	-9

*wave i (i <sup>3</sup> 2)*

P0i4010 in (1, ..., 31)	P0i4010
P0i4010 in (97,..)	-8
P0i4010 = 99	-9

**PG006***wave 1*

P01361 in (1, ..., 12)	P01361
P01361 in (97,..)	-8
P01361 = 99	-9

*wave i (i <sup>3</sup> 2)*

P0i4020 in (1, ..., 12)	P0i4020
P0i4020 in (97,..)	-8
P0i4020 = 99	-9

## PG007

wave 1

P01362 in (1994, 1995)	P01362
P01362 in (9997,..)	-8
P01362 = 9999	-9

wave  $i$  ( $i \geq 2$ )

P0i4030 in (1993+i, 1994+i)	P0i4030
P0i4030 in (9997,..)	-8
P0i4030 = 9999	-9

## PG008

wave  $i$  ( $i \geq 1$ )

R0iMODE in (1,2,3,4,5)	R0iMODE
R0iMODE in (7,..)	-8
R0iMODE = 9	-9



## **PD - DEMOGRAPHIC INFORMATION**

## PD001

wave  $i$  ( $i \geq 1$ )

	BIRTHYY (link file)
--	---------------------

## PD002

wave  $i$  ( $i \geq 1$ )

	BIRTHMM (link file)
--	---------------------

## PD003

wave  $i$  ( $i \geq 1$ )

PD001 = -9	-9
else	1993+i - PD001

## PD004

wave  $i$  ( $i \geq 1$ )

	SEX (link file)
--	-----------------

## PD005

wave 1

P01333 in (1, ..., 5)	P01333
P01333 in (7,..)	-8
P01333 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i3590 = 1	P0i3740 in (1, ..., 5)	P0i3740
	P0i3740 in (7,..)	-8
	P0i3740 = 9	-9
P0i3590 = 2	P0i3620 in (1, ..., 5)	P0i3620
	P0i3620 in (7,..)	-8
	P0i3620 = 9	-9

**PD006***wave 1*

PD005 in (1,2,3,4)	P01334 in (1900 ... 1994)	P01334
	P01334 in (9997,..)	-8
	P01334 = 9999	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PD005 in (1,2,3,4)	P0i3590 = 1	P0i3750 in (1900 ... 1994+i)	P0i3750
		P0i3750 in (9997,..)	-8
		P0i3750 = 9999	-9
	P0i3590 = 2	P0i3600 = 1	1993 + i
		P0i3600 = 2	1992 + i
		P0i3600 = 3	PD006 (i - 1)
		P0i3600 in (7,..)	-8
		P0i3600 = 9	-9
		else	

**PD007***wave 1*

PD005 = 1		-8
else	P01335 in (1,2)	P01335
	P01335 in (7,..)	-8
	P01335 = 9	-9

*wave i (i <sup>3</sup> 2)*

PD005 = 1			-8
else	P0i3590 = 1	P0i3760 in (1, 2)	P0i3760
		P0i3760 in (7,..)	-8
		P0i3760 = 9	-9
	P0i3590 = 2	P0i3630 in (1,2)	P0i3630
		P0i3630 in (7,..)	-8
		P0i3630 = 9	-9

**PD008***wave i (i <sup>3</sup> 1)*

PD005 = 1		1
PD005 in (2,3,4,5)	PD007 = 1	1
	PD007 in (2,-9)	2
	PD007 = -8	-8
PD005 = -8		-8
PD005 = -9		-9



**PE - EMPLOYMENT**

## PE001

wave 1

P01001 = 1 or P01002 = 1	P01003 in (1,2)	P01003
	P01003 in (3,4)	P01003+1
	P01003 in (7,.)	-8
	P01003 = 9	-9
else	P01056 in (1,2,3,4,5)	P01056 + 5
	P01056 in (6, ..., 96)	11
	P01056 in (97,.)	-8
	P01056 = 99	-9

wave 2

P02001 = 1 or P02002 = 1	P02003 =2	3
	P02003 =3	2
	P02003 in (1,4,5)	P02003
	P02003 in (7,.)	-8
	P02003 = 9	-9
else	P02084 in (1,2,3,4,5)	P02084 + 5
	P02084 in (6, ..., 96)	11
	P02084 in (97,.)	-8
	P02084 = 99	-9

wave  $i$  ( $i > 2$ )

P0i0010 = 1 or P0i0020 = 1	P0i0030 =2	3
	P0i0030 =3	2
	P0i0030 in (1,4,5)	P0i0030
	P0i0030 in (7,.)	-8
	P0i0030 = 9	-9
else	P0i0840 in (1,2,3,4,5)	P0i0840 + 5
	P0i0840 = 6	12
	P0i0840 in (7, ..., 96)	11
	P0i0840 in (97,.)	-8
	P0i0840 = 99	-9

## PE001A

wave 1)

	PE001
--	-------

wave  $i$  ( $i \geq 1$ )

PE001 = 12	P0i0890 in (1,4,5)	P0i0890
	P0i0890 = 2	3
	P0i0890 = 3	2
	P0i0890 in (7,.)	-8
	P0i0890 = 9	-9
else		PE001



## PE002

wave  $i$  ( $i \geq 1$ )

PE001 in (1,..., 5)	1
PE001 = 7	2
PE001 in (6, 8, ... 12)	3
PE001 = -8	-8
PE001 = -9	-9

## PE002A

wave  $i$  ( $i \geq 1$ )

PE001A in (1,..., 5)	1
PE001A = 7	2
PE001A in (6, 8, ... 12)	3
PE001A = -8	-8
PE001A = -9	-9

## PE003

wave 1

P01001 = 1 or P01002 = 1				1	
else	P01058 = 1			2	
	else	PS001 = 5	PS008 =1 and PS005 = 1	3	
			PS008 =1 and PS011 = 1	3	
			else	5	
		PS001 = 6	PS001A = 5	4	
			PS001A in (6,7)	3	
			else	5	
		else			-9

wave  $i$  ( $i \geq 2$ )

P0i0010 = 1 or P0i0020 = 1				1
else	P0i0850 = 1			2
	else	PS001 = 5	PS008 =1 and PS005 = 1	3
			PS008 =1 and PS011 = 1	3
			PS008 =1 and PS006 = 1	4
			PS008 =1 and PS006 in (2,3)	3
			else	5
		PS001 = 6	PS008 = 1 and PS001A = 5	4
			PS008 = 1 and PS001A in (6,7)	3
			else	5
	else			-9



## PE004

wave 1

PE003 = 1	PE001 in (1, ..., 5, -8,-9)	PE001
PE003 = 2	P01061 in (1,2)	P01061
	P01061 in (3,4)	P01061+1
	P01061 in (7,..)	-8
	P01061 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	PE001 in (1, ..., 5, -8,-9)	PE001
PE003 = 2	P0i0890 in (1,4,5)	P0i0890
	P0i0890 = 2	3
	P0i0890 = 3	2
	P0i0890 in (7,..)	-8
	P0i0890 = 9	-9
else		-8

## PE005

wave 1

PE003 = 1	PE001 in (1 ... 5)	PE005A in (1 ... 96)	P01054 in (1 ... 96)	min (PE005A+P01054,96)
			else	PE005A
		PE005A in (-8,-9)		PE005A
	PE001 in (-8,-9)		PE001	
PE003 = 2	P01065 in (1 ... 96)			P01065
	P01065 in (97,..)			-8
	P01065 = 99			-9
else				-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	PE001 in (1 ... 5)	PE005A in (1 ... 96)	P0i0750 in (1 ... 96)	min(PE005A+ P0i0750,96)
			else	PE005A
		PE005A in (-8,-9)		PE005A
	PE001 in (-8,-9)			PE001
PE003 = 2	P0i0930 in (1 ... 96)			P0i0930
	P0i0930 in (97,..)			-8
	P0i0930 = 99			-9
else				-8

## PE005A

wave 1

PE003 = 1	PE001 in (1 ... 5)	P01030 in (1 ... 96)	P01030
		P01030 in (97,..)	-8
		P01030 = 99	-9
	PE001 in (-8,-9)		PE001
else			-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	PE001 in (1,2,3)	P0i0620 in (1 ... 96)	P0i0620
		P0i0620 in (97,..)	-8
		P0i0620 = 99	-9
	PE001 in (4,5)	P0i0350 in (1 ... 96)	P0i0350
		P0i0350 in (97,..)	-8
		P0i0350 = 99	-9
	PE001 in (-8,-9)		PE001
	else		-8

## PE005B

wave 1

PE005C = 2	PE003 = 1	P01032 in (1 ... 5)	P01032
		P01032 = 6	7
		P01032 = .	-8
		P01032 = 9	-9
	PE003 = 2	P01066 in (1 ... 5)	P01066
		P01066 = 6	7
		P01066 = .	-8
		P01066 = 9	-9
else		-8	

wave  $i$  ( $i \geq 2$ )

PE005C = 2	PE003 = 1	P0i0640 in (1 ... 5,7)	P0i0640
		P0i0640 = .	-8
		P0i0640 = 9	-9
	PE003 = 2	P0i0940 in (1 ... 5,7)	P0i0940
		P0i0940 = .	-8
		P0i0940 = 9	-9
else			-8

## PE005C

wave 1

PE003 = 1	P01031 in (1,2)	P01031
	P01031 in (7,..)	-8
	P01031 = 9	-9
PE003 = 2		2
else		-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0630 = 1		1
	P0i0630 = 2	P0i0640 in (1 ... 5,7)	2
		P0i0640 = 6	1
		P0i0640 = .	-8
		P0i0640 = 9	-9
		else	
	PE003 = 2	P0i0940 = 6	1
else		2	
else			-8

## PE006A

wave 1

PE003 = 1	P01017 in (11,12)	1112
	P01017 in (1,53,99)	-9
	P01017 in (13, ..., 94)	P01017 *100
	else	-8
PE003 = 2	P01062 in (11,12)	1112
	P01062 in (1,53,99)	-9
	P01062 in (13, ..., 94)	P01062 *100
	else	-8
else		-8

wave  $i$  ( $i = 2,3$ )

PE003 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,.))	P0i0200 in (11,12)	1112
		P0i0200 in (1,53,99)	-9
		P0i0200 in (13, ..., 94)	P0i0200 *100
		else	-8
	P0i0050 = 3		PE006A(i-1)
PE003 = 2	P0i0900 in (11,12)		1112
	P0i0900 in (1,53,99)		-9
	P0i0900 in (13, ..., 94)		P0i0900 *100
	else		-8
else			-8

wave  $i$  ( $i \geq 4$ )

PE003 = 1	P0i0200 in (11,12)	1112
	P0i0200 in (1,53,99)	-9
	P0i0200 in (13, ..., 94)	P0i0200 *100
	else	-8
PE003 = 2	P0i0900 in (11,12)	1112
	P0i0900 in (1,53,99)	-9
	P0i0900 in (13, ..., 94)	P0i0900 *100
	else	-8
else		-8

**PE006B***wave i (i<sup>3</sup> 1)*

PE006A in (2100, 2200)	2122
PE006A in (3100, 3200)	3132
PE006A in (3300, 3400)	3334
PE006A in (4100, 4200)	4142
PE006A in (7100, 7400)	7174
PE006A in (7200, 7300)	7273
PE006A in (8100, 8300)	8183
else	PE006A

**PE006C***wave i (i<sup>3</sup> 1)*

PE006B > 0	int (PE006B/1000)
else	PE006B

## PE007A

wave 1

PE003 = 1	P01021 in (1,...,5)	a+b
	P01021 in (10,...,14)	c
	P01021 in (15,16)	da
	P01021 in (17,18,19)	db+dc
	P01021 in (20,21,22)	dd+de
	P01021 in (23,24,25,26)	df-di
	P01021 in (27,28,29)	dj+dk
	P01021 in (30, ..., 37)	dl-dn
	P01021 in (40,41)	e
	P01021 = 45	f
	P01021 in (50,51,52)	g
	P01021 = 55	h
	P01021 in (60, ..., 64)	i
	P01021 in (65,66,67)	j
	P01021 in (70, ..., 74)	k
	P01021 = 75	l
	P01021 = 80	m
	P01021 = 85	n
	P01021 in (90, ..., 97)	o-q
	P01021 = 99	-9
PE003 = 2	P01063 in (1,...,5)	a+b
	P01063 in (10,...,14)	c
	P01063 in (15,16)	da
	P01063 in (17,18,19)	db+dc
	P01063 in (20,21,22)	dd+de
	P01063 in (23,24,25,26)	df-di
	P01063 in (27,28,29)	dj+dk
	P01063 in (30, ..., 37)	dl-dn
	P01063 in (40,41)	e
	P01063 = 45	f
	P01063 in (50,51,52)	g
	P01063 = 55	h
	P01063 in (60, ..., 64)	i
	P01063 in (65,66,67)	j
	P01063 in (70, ..., 74)	k
	P01063 = 75	l
	P01063 = 80	m
	P01063 = 85	n
	P01063 in (90, ..., 97)	o-q
	P01063 = 99	-9
else		-8

## PE007A (CONT.)

wave  $i$  ( $i = 2, 3$ )

PE003 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9))	P0i0260 in (1,...,5)	a+b
		P0i0260 in (10,...,14)	c
		P0i0260 in (15,16)	da
		P0i0260 in (17,18,19)	db+dc
		P0i0260 in (20,21,22)	dd+de
		P0i0260 in (23,24,25,26)	df-di
		P0i0260 in (27,28,29)	dj+dk
		P0i0260 in (30, ..., 37)	dl-dn
		P0i0260 in (40,41)	e
		P0i0260 = 45	f
		P0i0260 in (50,51,52)	g
		P0i0260 = 55	h
		P0i0260 in (60, ..., 64)	i
		P0i0260 in (65,66,67)	j
		P0i0260 in (70, ..., 74)	k
		P0i0260 = 75	l
		P0i0260 = 80	m
		P0i0260 = 85	n
		P0i0260 in (90, ..., 97)	o-q
		P0i0260 = 99	-9
	P0i0050 = 3		PE007A(i-1)
PE003 = 2	P0i0910 in (1,...,5)		a+b
		P0i0910 in (10,...,14)	c
		P0i0910 in (15,16)	da
		P0i0910 in (17,18,19)	db+dc
		P0i0910 in (20,21,22)	dd+de
		P0i0910 in (23,24,25,26)	df-di
		P0i0910 in (27,28,29)	dj+dk
		P0i0910 in (30, ..., 37)	dl-dn
		P0i0910 in (40,41)	e
		P0i0910 = 45	f
		P0i0910 in (50,51,52)	g
		P0i0910 = 55	h
		P0i0910 in (60, ..., 64)	i
		P0i0910 in (65,66,67)	j
		P0i0910 in (70, ..., 74)	k
		P0i0910 = 75	l
		P0i0910 = 80	m
		P0i0910 = 85	n
		P0i0910 in (90, ..., 97)	o-q
		P0i0910 = 99	-9

## PE007A (CONT.)

wave  $i$  ( $i \geq 4$ )

PE003 = 1	P0i0260 in (1,...,5)	a+b
	P0i0260 in (10,...,14)	c
	P0i0260 in (15,16)	da
	P0i0260 in (17,18,19)	db+dc
	P0i0260 in (20,21,22)	dd+de
	P0i0260 in (23,24,25,26)	df-di
	P0i0260 in (27,28,29)	dj+dk
	P0i0260 in (30, ..., 37)	dl-dn
	P0i0260 in (40,41)	e
	P0i0260 = 45	f
	P0i0260 in (50,51,52)	g
	P0i0260 = 55	h
	P0i0260 in (60, ..., 64)	i
	P0i0260 in (65,66,67)	j
	P0i0260 in (70, ..., 74)	k
	P0i0260 = 75	l
	P0i0260 = 80	m
	P0i0260 = 85	n
	P0i0260 in (90, ..., 97)	o-q
	P0i0260 = 99	-9
PE003 = 2	P0i0910 in (1,...,5)	a+b
	P0i0910 in (10,...,14)	c
	P0i0910 in (15,16)	da
	P0i0910 in (17,18,19)	db+dc
	P0i0910 in (20,21,22)	dd+de
	P0i0910 in (23,24,25,26)	df-di
	P0i0910 in (27,28,29)	dj+dk
	P0i0910 in (30, ..., 37)	dl-dn
	P0i0910 in (40,41)	e
	P0i0910 = 45	f
	P0i0910 in (50,51,52)	g
	P0i0910 = 55	h
	P0i0910 in (60, ..., 64)	i
	P0i0910 in (65,66,67)	j
	P0i0910 in (70, ..., 74)	k
	P0i0910 = 75	l
	P0i0910 = 80	m
	P0i0910 = 85	n
	P0i0910 in (90, ..., 97)	o-q
	P0i0910 = 99	-9



**PE007B***wave i (i <sup>3</sup> 1)*

PE007A in (c,e)	c+e
else	PE007A

**PE007C***wave i (i <sup>3</sup> 1)*

PE007B = a+b	1
PE007B in (c+e, da,db+dc,dd+de,df-di,dj-dk,dl-dn,f	2
PE007B in (g,h,i,j,k,l,m,n,o-q)	3
else	PE007B

**PE008***wave 1*

PE003 = 1	P01027 in (1,...,7)	P01027
	P01027 in (97,..)	-8
	P01027 in (99,9)	-9
else		-8

*wave i (i = 2,3)*

PE003 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0270 in (1,...,7)	P0i0270
		P0i0270 in (97,..)	-8
		P0i0270 in (9,99)	-9
	P0i0050 = 3		PE008(i-1)
else			-8

*wave i (i <sup>3</sup> 4)*

PE003 = 1	P0i0270 in (1,...,7)	P0i0270
	P0i0270 in (97,..)	-8
	P0i0270 in (9,99)	-9
else		-8

## PE009

wave 1

PE003 = 1	P01026 in (1,2)	P01026
	P01026 in (7,..)	-8
	P01026 = 9	-9
else		-8

wave  $i$  ( $i = 2,3$ )

PE003 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0280 in (1,2)	P0i0280
		P0i0280 in (7,..)	-8
		P0i0280 = 9	-9
	P0i0050 = 3	PE009(i-1)	
else			-8

wave  $i$  ( $i \geq 4$ )

PE003 = 1	P0i0280 in (1,2)	P0i0280
	P0i0280 in (7,..)	-8
	P0i0280 = 9	-9
else		-8

## PE010

wave 1

PE003 = 1	P01028 = 1	P01029 in (1,2)	P01029
		P01029 in (7,..)	-8
		P01029 = 9	-9
	P01028 = 2		3
	P01028 in (7,..)		-8
	P01028 = 9		-9
	else		-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0530 = 1	P0i0540 in (1,2)	P0i0540
		P0i0540 in (7,..)	-8
		P0i0540 = 9	-9
	P0i0530 = 2		3
	P0i0530 in (7,..)		-8
	P0i0530 = 9		-9
	else		

## PE011

wave 1

PE003 = 1	P01004 = 1		1994
	P01004 = 2		1993
	P01004 = 3	P01006 in (1980 ... 1992)	P01006
		P01006 in (9997,.)	-8
		P01006 = 9999	-9
	P01004 = 4		2979
	P01004 in (7,.)		-8
	P01004 = 9		-9
else			-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0040 = 1	P0i0070 = 1		1993+i
		P0i0070 = 2		1992+i
		P0i0070 = 3	P0i0090 in (1978+i, ... ,1991+i)	P0i0090
			P0i0090 in (9997,..)	-8
			P0i0090 = 9999	-9
		P0i0070 in (7,..)		-8
		P0i0070 = 9		-9
	P0i0040 = 2	P0i0050 = 1		1993+i
		P0i0050 = 2		1992+i
		P0i0050 = 3		PE011(i-1)
		P0i0050 in (7,..)		-8
		P0i0050 = 9		-9
		else		-8

## PE012

wave 1

PE003 = 1	P01004 in (1,2)	P01005 in (1,...,12)	P01005
		P01005 in (97,..)	-8
		P01005 = 99	-9
	else		-8
else			-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0040 = 1	P0i0070 in (1,2)	P0i0080 in (1,...,12)	P0i0080
			P0i0080 in (97,..)	-8
			P0i0080 = 99	-9
		else		-8
	P0i0040 = 2	P0i0050 in (1,2)	P0i0060 in (1,...,12)	P0i0060
			P0i0060 in (97,..)	-8
			P0i0060 = 99	-9
		P0i0050 = 3		PE012(i-1)
		else		-8
	else			-8

## PE013

wave 1

PE003 = 1	P01004 in (1,2,3,7,9,..)	P01007 in (1,...,5)	P01007
		P01007 in (6, ..., 96)	6
		P01007 in (97,..)	-8
		P01007 = 99	-9
	P01004 = 4		-8
else			-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	(P0i0040 = 1 and P0i0070 in (1,2,3,9,7,..) or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0100 in (1,...,5)	P0i0100
		P0i0100 in (6,...,96)	6
		P0i0100 in (97,..)	-8
		P0i0100 = 99	-9
	P0i0070 = 4		-8
P0i0050 = 3			PE013(i-1)
else			-8

## PE014

wave 1

PE003 = 1	P01004 in (1,2,3,7,9,..)	P01008 in (1,2)	P01008
		P01008 in (7,..)	-8
		P01008 = 9	-9
	P01004 = 4		-8
else			-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	(P0i0040 = 1 and P0i0070 in (1,2,3,9,7,..) or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0110 in (1,2)	P0i0110
		P0i0110 in (7,..)	-8
		P0i0110 = 9	-9
	P0i0070 = 4		-8
	P0i0050 = 3		PE014(i-1)
else			-8

## PE015

wave 1

PE014 = 1	P01009 in (0 ... 40)	P01010 in (0 ... 12)	P01009*12+P01010
		P01010 in (99,97,..)	P01009*12
	P01009 in (99,97,..)	P01010 in (0 ... 12)	P01010
		P01010 in (97,..)	-8
		P01010 = 99	-9
PE014 = 2			0
else			-8

wave  $i$  ( $i \geq 2$ )

PE014 = 1	(P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0120 in (0 ... 40)	P0i0130 in (0 ... 12)	P0i0120*12+P0i0130
			P0i0130 in (99,97,..)	P0i0120*12
		P0i0120 in (99,97,..)	P0i0130 in (0 ... 12)	P0i0130
			P0i0130 in (97,..)	-8
			P0i0130 = 99	-9
	P0i0050 = 3			PE015(i-1)
PE014 = 2				0
else				-8

## PE016

wave 1

PE003 = 1	P01020 in (1,2)	P01020
	P01020 = 7	-8
	P01020 = 9	-9
else		-8

wave  $i$  ( $i = 2,3$ )

PE003 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,.))	P0i0210 in (1,2)	P0i0210
		P0i0210 in (7,.)	-8
		P0i0210 = 9	-9
	P0i0050 = 3		PE016(i-1)
else			-8

wave  $i$  ( $i \geq 4$ )

PE003 = 1	P0i0210 in (1,2)	P0i0210
	P0i0210 in (7,.)	-8
	P0i0210 = 9	-9
else		-8

## PE017

wave 1

PE003 = 1	P01022 in (1,2)	P01022
	P01022 in (7,.)	-8
	P01022 = 9	-9
else		-8

wave  $i$  ( $i = 2,3$ )

PE003 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,.))	P0i0220 in (1,2)	P0i0220
		P0i0220 in (7,.)	-8
		P0i0220 = 9	-9
	P0i0050 = 3		PE017(i-1)
else			-8

wave  $i$  ( $i \geq 4$ )

PE003 = 1	P0i0220 in (1,2)	P0i0220
	P0i0220 in (7,.)	-8
	P0i0220 = 9	-9
else		-8

## PE018

wave 1

PE017 = 1	P01023 in (1,...,9)	P01023
	P01023 in (10,...,13)	P01023+2
	P01023 in (14,...,96)	16
	P01023 in (97,..)	-8
	P01023 = 99	-9
else		-8

wave  $i$  ( $i = 2,3$ )

PE017 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0230 in (1,...,15)	P0i0230
		P0i0230 in (16,...,96)	16
		P0i0230 in (97,..)	-8
		P0i0230 = 99	-9
	P0i0050 = 3		PE018(i-1)
else			-8

wave  $i$  ( $i \geq 4$ )

PE017 = 1	P0i0230 in (1,...,15)	P0i0230
	P0i0230 in (16,...,96)	16
	P0i0230 in (97,..)	-8
	P0i0230 = 99	-9
else		-8

## PE019

wave 1

PE017 = 1	P01024 in (1,...,9)	P01024
	P01024 in (10,...,13)	P01024+2
	P01024 in (14,...,96)	16
	P01024 in (97,..)	-8
	P01024 = 99	-9
else		-8

wave  $i$  ( $i = 2,3$ )

PE017 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0240 in (1,...,15)	P0i0240
		P0i0240 in (16,...,96)	16
		P0i0240 in (97,..)	-8
		P0i0240 = 99	-9
	P0i0050 = 3		PE019(i-1)
else			-8

wave  $i$  ( $i \geq 4$ )

PE017 = 1	P0i0240 in (1,...,15)	P0i0240
	P0i0240 in (16,...,96)	16
	P0i0240 in (97,..)	-8
	P0i0240 = 99	-9
else		-8



**PE020***wave 1*

PE017 = 1	P01025 in (1,...,9)	P01025
	P01025 in (10,...,13)	P01025+2
	P01025 in (14,...,96)	16
	P01025 in (97,..)	-8
	P01025 = 99	-9
else		-8

*wave i (i = 2,3)*

PE017 = 1	P0i0040 = 1 or (P0i0040 = 2 and P0i0050 in (1,2,9,7,..))	P0i0250 in (1,...,15)	P0i0250
		P0i0250 in (16,...,96)	16
		P0i0250 in (97,..)	-8
		P0i0250 = 99	-9
	P0i0050 = 3		PE020(i-1)
else			-8

*wave i (i ≥ 4)*

PE017 = 1	P0i0250 in (1,...,15)	P0i0250
	P0i0250 in (16,...,96)	16
	P0i0250 in (97,..)	-8
	P0i0250 = 99	-9
else		-8

**PE021***wave 1*

PE001 in (1,4,5)	P01018 in (1,2)	P01018
	P01018 in (7,..)	-8
	P01018 = 9	-9
else		-8

*wave i (i ≥ 2)*

PE001 = 1	P0i0400 in (1,2)	P0i0400
	P0i0400 in (7,..)	-8
	P0i0400 in (9)	-9
PE001 in (4,5)	P0i0300 in (1,2)	P0i0300
	P0i0300 in (7,..)	-8
	P0i0300 in (9)	-9
else		-8

## PE022

wave 1

PE021 = 1	P01019 in (1,2,3,4)	P01019
	P01019 in (7,..)	-8
	P01019 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PE021 = 1	PE001 = 1	P0i0410 in (1,2,3,4)	P0i0410
		P0i0410 in (7,.)	-8
		P0i0410 = 9	-9
	PE001 in (4,5)	P0i0310 in (1,2,3,4)	P0i0310
		P0i0310 in (7,.)	-8
		P0i0310 = 9	-9
		else	

## PE023

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PE001 in (2,3)	P0i0390 in (1,2)	P0i0390
	P0i0390 in (7,..)	-8
	P0i0390 = 9	-9
else		-8

## PE024

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PE001 = 1	P0i0420 in (1,2,3,4)	P0i0420
	P0i0420 in (7,..)	-8
	P0i0420 = 9	-9
else		-8

**PE025***wave 1*

	-8
--	----

*wave i (i <sup>3</sup> 2)*

PE024 = 2	P0i0430 in (1,2,3,4,5,6)	P0i0430
	P0i0430 in (7,.)	-8
	P0i0430 = 9	-9
else		-8

**PE026***wave 1*

PE001 in (1,2)	P01039 in (1,2)	P01039
	P01039 in (7,.)	-8
	P01039 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE001 in (1,2,3)	P0i0550 in (1,2)	P0i0550
	P0i0550 in (7,.)	-8
	P0i0550 = 9	-9
else		-8

**PE027***wave 1*

PE001 in (1,2)	P01040 in (1,2)	P01040
	P01040 in (7,.)	-8
	P01040 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE001 in (1,2,3)	P0i0560 in (1,2)	P0i0560
	P0i0560 in (7,.)	-8
	P0i0560 = 9	-9
else		-8

**PE028***wave 1*

PE001 in (1,2)	P01041 in (1,2)	P01041
	P01041 in (7,.)	-8
	P01041 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE001 in (1,2,3)	P0i0570 in (1,2)	P0i0570
	P0i0570 in (7,.)	-8
	P0i0570 = 9	-9
else		-8

**PE029***wave 1*

PE001 in (1,2)	P01042 in (1,2)	P01042
	P01042 in (7,.)	-8
	P01042 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE001 in (1,2,3)	P0i0580 in (1,2)	P0i0580
	P0i0580 in (7,.)	-8
	P0i0580 = 9	-9
else		-8

**PE030***wave 1*

PE001 in (1,2)	P01043 in (1,2)	P01043
	P01043 in (7,.)	-8
	P01043 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE001 in (1,2,3)	P0i0590 in (1,2)	P0i0590
	P0i0590 in (7,.)	-8
	P0i0590 = 9	-9
else		-8

**PE031***wave 1*

PE003 = 1	P01044 in (1,...,6)	P01044
	P01044 in (7,..)	-8
	P01044 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE003 = 1	P0i0650 in (1,...,6)	P0i0650
	P0i0650 in (7,..)	-8
	P0i0650 = 9	-9
else		-8

**PE032***wave 1*

PE003 = 1	P01045 in (1,...,6)	P01045
	P01045 in (7,..)	-8
	P01045 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE003 = 1	P0i0660 in (1,...,6)	P0i0660
	P0i0660 in (7,..)	-8
	P0i0660 = 9	-9
else		-8

**PE033***wave 1*

PE003 = 1	P01046 in (1,...,6)	P01046
	P01046 in (7,..)	-8
	P01046 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE003 = 1	P0i0670 in (1,...,6)	P0i0670
	P0i0670 in (7,..)	-8
	P0i0670 = 9	-9
else		-8

## PE034

wave 1

PE003 = 1	P01047 in (1,...,6)	P01047
	P01047 in (7,..)	-8
	P01047 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0680 in (1,...,6)	P0i0680
	P0i0680 in (7,..)	-8
	P0i0680 = 9	-9
else		-8

## PE035

wave 1

PE003 = 1	P01048 in (1,...,6)	P01048
	P01048 in (7,..)	-8
	P01048 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0690 in (1,...,6)	P0i0690
	P0i0690 in (7,..)	-8
	P0i0690 = 9	-9
else		-8

## PE036

wave 1

PE003 = 1	P01049 in (1,...,6)	P01049
	P01049 in (7,..)	-8
	P01049 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PE003 = 1	P0i0700 in (1,...,6)	P0i0700
	P0i0700 in (7,..)	-8
	P0i0700 = 9	-9
else		-8

**PE037***wave 1*

PE003 = 1	P01050 in (1,...,6)	P01050
	P01050 in (7,..)	-8
	P01050 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE003 = 1	P0i0710 in (1,...,6)	P0i0710
	P0i0710 in (7,..)	-8
	P0i0710 = 9	-9
else		-8

**PE038***wave 1*

PE003 = 1	P01051 in (0 ... 28)	P01051
	P01051 in (97,..)	-8
	P01051 = 99	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PE003 = 1	P0i0720 in (0 ... 28)	P0i0720
	P0i0720 in (97,..)	-8
	P0i0720 = 99	-9
else		-8

## PE039

wave 1

P01036 in (0, ..., 60)	P01036
P01036 in (61, ..., 96)	60
P01036 in (97,..)	-8
P01036 = 99	-9

wave  $i$  ( $i \geq 2$ )

P0i3590 = 1	P0i3770 in (0, ..., 60)			P0i3770
	P0i3770 in (61, ..., 96)			60
	P0i3770 in (97,..)			-8
	P0i3770 = 99			-9
P0i3590 = 2	PE039(i-1) $\neq$ 0			PE039(i-1)
	PE039(i-1) = 0	PE003 in (1,2)	PD003 $\leq$ 60	PD003
			else	60
		PE003 in (3,4,5)		0
		PE003 in (-8,-9)		PE003



**PU - UNEMPLOYMENT**

## PU001

wave 1

PE039 = 0		-8
else	P01337 in (1,2)	P01337
	P01337 in (7,..)	-8
	P01337 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i3590 = 1	PE039 = 0		-8
	else	P0i3780 in (1,2)	P0i3780
		P0i3780 in (7,..)	-8
		P0i3780 = 9	-9
P0i3590 = 2	PE039(i-1) $\neq$ 0		PU001(i-1)
	PE039(i-1) = 0		PE014

## PU002

wave 1

P01338 in (1,2)	P01338
P01338 in (7,..)	-8
P01338 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i3590 = 1	P0i3790 in (1,2)	P0i3790
	P0i3790 in (7,..)	-8
	P0i3790 = 9	-9
P0i3590 = 2	PU002(i-1)	

## PU002A

wave 1

	PU002
--	-------

wave  $i$  ( $i \geq 2$ )

P0i3590 = 1	PU002	
P0i3590 = 2	PU002(i-1) = 1	1
	PE014 = 1	1
	PC001 = 6 or ... or PC012 = 6	1
	else	PU002A(i-1)

**PU003***wave 1*

PU002 = 1	P01339 in (1, ..., 96)	P01339
	P01339 in (97,..)	-8
	P01339 = 99	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PU002 = 1	P0i3590 = 1	P0i3800 in (1, ..., 96)	P0i3800
		P0i3800 in (97,..)	-8
		P0i3800 = 99	-9
	P0i3590 = 2	PU003(i-1)	
else			-8

**PU003A***wave 1*

	PU003
--	-------

*wave i (i <sup>3</sup> 2)*

PU002A = 1	P0i3590 = 1			PU003	
	P0i3590 = 2	PU003A(i-1) in (-8,-9)		PU003A(i-1)	
		P0i0150>PG007(i-1)	PE014 = 1	PU003A(i-1) + 1	
			else	PU003A(i-1)	
		P0i0150=PG007(i-1)	P0i0160>PG006(i-1)	PE014 = 1	PU003A(i-1) + 1
				else	PU003A(i-1)
	else			PU003A(i-1)	
else				-8	

**PU004***wave 1*

PU002 = 1	P01340 in (1, ..., 96)	P01340
	P01340 in (7,..)	-8
	P01340 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PU002 = 1	P0i3590 = 1	P0i3810 in (1,2)	P0i3810
		P0i3810 in (7,..)	-8
		P0i3810 = 9	-9
	P0i3590 = 2		PU004(i-1)
else			-8

**PU004A***wave 1*

	PU004
--	-------

*wave i (i <sup>3</sup> 2)*

PU002A = 1	P0i3590 = 1		PU004
	P0i3590 = 2	PE015 > 12	1
		PC001 = 6 and ... and PC012 = 6	1
		else	PU004A(i-1)
else			-8

**PS - SEARCH FOR WORK**

## PS001

wave 1

P01001 = 1 or P01002 = 1	P01055 in (1,2)	P01055
	P01055 in (7,..)	-8
	P01055 = 9	-9
P01058 = 1	P01070 in (1,2)	P01070+2
	P01070 in (7,..)	-8
	P01070 = 9	-9
P01058 in (2,7,9,..)	P01059 in (1,2)	P01059+4
	P01059 in (7,..)	-8
	P01059 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

P0i0010 = 1 or P0i0020 = 1	P0i0760 = 1 or P0i0780 = 1	1
	P0i0760 = 2 or P0i0780 = 2	2
	P0i0760 = 9 or P0i0780 = 9	-9
	P0i0760 in (7,..) and P0i0780 in (7,..)	-8
P0i0850 = 1	P0i0980 in (1,2)	P0i0980+2
	P0i0980 in (7,..)	-8
	P0i0980 = 9	-9
P0i0850 in (2,7,9,..)	P0i0860 in (1,2)	P0i0860+4
	P0i0860 in (7,..)	-8
	P0i0860 = 9	-9
else		-8

## PS001A

wave 1

PS001 = 6	P01060 in (1 ... 8)	P01060
	P01060 in (97,..)	-8
	P01060 = 99	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PS001 = 6	P0i0870 in (1 ... 8)	P0i0870
	P0i0870 in (97,..)	-8
	P0i0870 = 99	-9
else		-8

**PS002***wave 1*

PS001 = 1		-8
PS001 in (3,5)	P01071 in (1 ... 96)	P01071
	P01071 in (97, .)	-8
	P01071 = 99	-9
else		-8

*wave 2*

PS001 = 1	P02076 =1	P02077 in (1 ... 96)	P02077
		P02077 in (97, .)	-8
		P02077 = 99	-9
	else	P02079 in (1 ... 96)	P02079
		P02079 in (97, .)	-8
		P02079 = 99	-9
PS001 in (3,5)	P02099 in (1 ... 96)		P02099
	P02099 in (97, .)		-8
	P02099 = 99		-9
else			-8

*wave i (i <sup>3</sup> 3)*

PS001 = 1	P0i0760 =1	P0i0770 in (1 ... 96)	P0i0770
		P0i0770 in (97, .)	-8
		P0i0770 = 99	-9
	else	P0i0790 in (1 ... 96)	P0i0790
		P0i0790 in (97, .)	-8
		P0i0790 = 99	-9
PS001 in (3,5)	P0i0995in (1 ... 96)		P0i0990
	P0i0995in (97, .)		-8
	P0i0995= 99		-9
else			-8

**PS003***wave 1*

PS001 = 1		-8
PS001 in (3,5)	P01073 in (1,2,3,4)	P01073
	P01073 in (7, .)	-8
	P01073 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PS001 = 1	P0i0800 in (1,2,3,4)	P0i0800
	P0i0800 in (7,.)	-8
	P0i0800 = 9	-9
PS001 in (3,5)	P0i1010 in (1,2,3,4)	P0i1010
	P0i1010 in (7, .)	-8
	P0i1010 = 9	-9
else		-8

**PS004***wave 1*

	-8
--	----

*wave i (i <sup>3</sup> 2)*

PS001 = 1	P0i0810 in (1,2)	P0i0810
	P0i0810 in (7,.)	-8
	P0i0810 = 9	-9
PS001 in (3,5)	P0i1050 in (1,2)	P0i1050
	P0i1050 in (7, .)	-8
	P0i1050 = 9	-9
else		-8



**PS005***wave 1*

PS001 = 1			-8
PS001 in (3,5)	P01076 = 1		1
	P01076 in (2,7,9,..)	P01077 in (1,2)	P01077
		P01077 in (7,..)	-8
		P01077 = 9	-9
else			-8

*wave i (i <sup>3</sup> 2)*

PS001 = 1	PS004 in (1, -8)		PS004
	PS004 in (2,-9)	P0i0820 in (1,2)	P0i0820
		P0i0820 in (7,,)	-8
		P0i0820 = 9	-9
PS001 in (3,5)	PS004 in (1, -8)		PS004
	PS004 in (2,-9)	P0i1060 in (1,2)	P0i1060
		P0i1060 in (7,,)	-8
		P0i1060 = 9	-9
else			-8

**PS006***wave 1*

			-8
--	--	--	----

*wave i (i <sup>3</sup> 2)*

PS005 = 2	P0i0010 = 1 or P0i0020 = 1	P0i0830 in (1,2,3)	P0i0830
		P0i0830 in (4 ... 96)	4
		P0i0830 in (97,..)	-8
		P0i0830 = 99	-9
	else	P0i1070 in (1,2,3)	P0i1070
		P0i1070 in (4 ... 96)	4
		P0i1070 in (97,..)	-8
		P0i1070 = 99	-9
else		-8	

**PS007***wave 1*

PS001 in (3,5)	P01072 in (1 ... 999999990)	P01072
	P01072 in (999999997, .)	-8
	P01072 = 99999999	-9
else		-8

*wave i (i ≥ 2)*

PS001 in (3,5)	P0i1000 in (1 ... 999999990)	P0i1000
	P0i1000 in (999999997, .)	-8
	P0i1000 = 99999999	-9
else		-8

**PS008***wave 1*

PS001 in (3,5)	P01074 in (1,2)	P01074
	P01074 in (7, .)	-8
	P01074 = 9	-9
else		-8

*wave i (i ≥ 2)*

PS001 in (3,5)	P0i1020 in (1,2)	P0i1020
	P0i1020 in (7, .)	-8
	P0i1020 = 9	-9
PS001 = 6 and PS001A in (5,6,7)	P0i0880 in (1,2)	P0i0880
	P0i0880 in (7, .)	-8
	P0i0880 = 9	-9
else		-8

**PS009***wave 1*

PS001 in (3,5)	P01075 in (1,2)	P01075
	P01075 in (7, .)	-8
	P01075 = 9	-9
else		-8

*wave i (i ≥ 2)*

PS001 in (3,5)	P0i1030 in (1,2)	P0i1030
	P0i1030 in (7, .)	-8
	P0i1030 = 9	-9
else		-8

**PS010***wave 1*

PS001 in (3,5)	P01076 in (1,2)	P01076
	P01076 in (7, .)	-8
	P01076 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PS001 in (3,5)	P0i1040 in (1,2)	P0i1040
	P0i1040 in (7, .)	-8
	P0i1040 = 9	-9
else		-8

**PS011***wave 1*

PS001 in (3,5)	P01078 in (1,2)	P01078
	P01078 in (7, .)	-8
	P01078 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PS001 in (3,5)	P0i1080 in (1,2)	P0i1080
	P0i1080 in (7, .)	-8
	P0i1080 = 9	-9
else		-8

**PS012***wave 1*

PS011 = 1	P01079 in (1,2)	P01079
	P01079 in (7, .)	-8
	P01079 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PS011 = 1	P0i1090 in (1,2)	P0i1090
	P0i1090 in (7, .)	-8
	P0i1090 = 9	-9
else		-8

**PS013***wave 1*

PS012 = 1	P01080 in (1,2,3)	P01080
	P01080 in (7, .)	-8
	P01080 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PS012 = 1	P0i1100 in (1,2,3)	P0i1100
	P0i1100 in (7, .)	-8
	P0i1100 = 9	-9
else		-8

**PS014***wave 1*

PS012 = 2	P01081 in (1 ... 10)	P01081
	P01081 in (97, .)	-8
	P01081 = 99	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PS012 = 2	P0i1110 in (1 ... 10)	P0i1110
	P0i1110 in (97, .)	-8
	P0i1110 = 99	-9
else		-8

**PS015***waves 1 and 2*

	-8
--	----

*wave i (i <sup>3</sup> 3)*

PS001 = 3	P0i0990 in (1 ... 96)	P0i0990
	P0i0990 in (97, .)	-8
	P0i0990 = 99	-9
else		-8

**PJ - PREVIOUS JOB**

**PJ001***wave 1*

PE003 = 1	P01004 in (1,2,3,7,9,..)	P01011 in (1,2)	P01011
		P01011 in (7,..)	-8
		P01011 = 9	-9
	P01004 = 4		-8
PE003 in (2,3,4,5)	P01082 in (1,2)		P01082
	P01082 in (7,..)		-8
	P01082 = 9		-9
else			-8

*wave i (i ≥ 2)*

PE003 = 1	[P0i0040 = 1 and P0i0070 in (1,2,3,7,9,..)] or [P0i0040 = 2 and P0i0050 in (1,2,9,7,..)]	P0i0140 in (1,2)	P0i0140
		P0i0140 in (7,..)	-8
		P0i0140 = 9	-9
	P0i0070 = 4		-8
	P0i0050 = 3		PJ001 (i-1)
PE003 in (2,3,4,5)	P0i1120 in (1,2)		P0i1120
	P0i1120 in (7,..)		-8
	P0i1120 = 9		-9
else			-8

## PJ002

wave 1

PJ001 = 1	PE003 = 1	P01012 = 1		1994
		P01012 = 2		1993
		P01012 in (3,7,..)	P01014 in (1920 ... 1992)	P01014
			P01014 in (9997,..)	-8
			P01014 = 9999	-9
		P01012 = 9		-9
	PE003 in (2,3,4,5)	P01083 = 1		1994
		P01083 = 2		1993
		P01083 in (3,7,..)	P01085 in (1920 ... 1992)	P01085
			P01085 in (9997,..)	-8
			P01085 = 9999	-9
		P01083 = 4		-8
	P01083 = 9		-9	
else				-8

wave  $i$  ( $i \geq 2$ )

PJ001 = 1	PE003 = 1	P0i0040 = 1 or [P0i0040 = 2 and P0i0050 in (1,2,7,9,..)]	P0i0150 = 1		1993+i
			P0i0150 = 2		1992+i
			P0i0150 in (3,7,..)	P0i0170 in (1920 ... 1991+i)	P0i0170
				P0i0170 in (9997,..)	-8
				P0i0170 = 9999	-9
			P0i0150 = 9		-9
			P0i0050 = 3		
	PE003 in (2,3,4,5)	P0i1130 in (1,7,..)	P0i1160 = 1		1993+i
			P0i1160 = 2		1992+i
			P0i1160 in (3,7,..)	P0i1180 in (1920 ... 1991+i)	P0i1180
				P0i1180 in (9997,..)	-8
				P0i1180 = 9999	-9
			P0i1160 = 4		-8
			P0i1160 = 9		-9
		P0i1130 = 2	P0i1140 = 1		1993+i
			P0i1140 = 2		1992+i
			P0i1140 = 3		PJ002(i-1)
			P0i1140 in (7,..)		-8
			P0i1140 = 9		-9
			else		

## PJ003

wave 1

PJ001 = 1	PE003 = 1	P01004 in (1,2,3,9,7,..) and P01012 in (1,2,7,..)		P01013 in (1 ... 12)	P01013
				P01013 in (97,..)	-8
				P01013 = 99	-9
		P01012 in (3,9)			-8
		P01004 = 4			-9
	PE003 in (2,3,4,5)	P01083 in (1,2,7,..)	P01084 in (1 ... 12)	P01084	
			P01084 in (97,..)	-8	
			P01084 = 99	-9	
		P01083 in (3,4,9)			-8
	else				-8

wave  $i$  ( $i \geq 2$ )

PJ001 = 1	PE003 = 1	[P0i0040 = 1 and P0i0070 in (1,2,3,9,7,..) and P0i0150 in (1,2,7,..)] or [P0i0040 = 2 and P0i0050 in (1,2,9,7,..) and P0i0150 in (1,2,7,..)]		P0i0160 in (1 ... 12)		P0i0160	
				P0i0160 in (97,..)		-8	
				P0i0160 = 99		-9	
		P0i0070 = 4					-8
		P0i0050 = 3					PJ003(i-1)
		P0i0040 = 2 and P0i0050 in (1,2,9,7,..) and P0i0150 = 3					PJ003(i-1)
		P0i0150 in (3,9)					-8
	PE003 in (2,3,4,5)	P0i1130 = 1	P0i1160 in (1,2,7,..)	P0i1170 in (1 ... 12)		P0i1170	
				P0i1170 in (97,..)		-8	
				P0i1170 = 99		-9	
			P0i1160 in (3,4,9)				-8
		P0i1130 = 2	P0i1140 in (1,2,7,..)	P0i1150 in (1 ... 12)		P0i1150	
				P0i1150 in (97,..)		-8	
				P0i1150 = 99		-9	
			P0i1140 = 3				PJ003 (i-1)
			P0i1140 = 9				-8
else					-8		



**PJ004**

wave 1

PJ001 = 1	PE003 = 1	P01004 in (1,2,3,7,9,..)	P01015 in (1 ... 12)	P01015
			P01015 in (97,..)	-8
			P01015 = 99	-9
		P01004 = 4		-8
	PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,..)	P01094 in (1 ... 12)	P01094
			P01094 in (97,..)	-8
			P01094 = 99	-9
		P01083 in (4)		-8
	else			-8

wave  $i$  ( $i \geq 2$ )

PJ001 = 1	PE003 = 1	[P0i0040 = 1 and P0i0070 in (1,2,3,7,9,..)] or [P0i0040 = 2 and P0i0050 in (1,2,7,9,..)]		P0i0180 in (1 ... 12)	P0i0180
				P0i0180 in (97,..)	-8
				P0i0180 = 99	-9
		P0i0070 = 4			-8
		P0i0050 = 3			PJ004 (i-1)
	PE003 in (2,3,4,5)	[P0i1130 = 1 and P0i1160 in (1,2,3,7,9,..)] or [P0i1130 = 2 and P0i1140 in (1,2,9,7,..)]		P0i1280 in (1 ... 12)	P0i1280
				P0i1280 in (97,..)	-8
				P0i1280 = 99	-9
		P0i1160 = 4			-8
		P0i1140 = 3			PJ004 (i-1)
else				-8	

**PJ005**

wave 1

PJ001 = 1 and PE003 = 1	P01004 in (1,2,3,7,9,..)	P01016 in (1,2,3,4)	P01016
		P01016 in (7,..)	-8
		P01016 = 9	-9
	P01004 in (4)		-8
Else			-8

wave  $i$  ( $i \geq 2$ )

PJ001 = 1 and PE003 = 1	[P0i0040 = 1 and P0i0070 in (1,2,3,7,9,..)] or [P0i0040 = 2 and P0i0050 in (1,2,7,9,..)]	P0i0190 in (1,2,3,4)	P0i0190
		P0i0190 in (7,..)	-8
		P0i0190 = 9	-9
	P0i0070 = 4		-8
	P0i0050 = 3		PJ005 (i-1)
Else			-8

**PJ006***wave 1*

PJ001 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,..)	P01086 in (1,2)	P01086
		P01086 in (3,4)	P01086 + 1
		P01086 in (7,..)	-8
		P01086 = 9	-9
	P01004 in (4)		-8
else			-8

*wave i (i  $\geq$  2)*

PJ001 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,..)	P0i1160 in (1,2,3,7,9,..)	P0i1190 in (1,4,5)	P0i1190
			P0i1190 = 2	3
			P0i1190 = 3	2
			P0i1190 in (7,..)	-8
			P0i1190 = 9	-9
		P0i1160 = 4		-8
	P0i1130 = 2			PJ006 (i-1)
else				-8

**PJ007A***wave 1*

PJ001 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,..)	P01087 in (11,12)	1112
		P01087 in (1,53,99)	-9
		P01087 in (13, ..., 94)	P01017 *100
		P01087 in (97,..)	-8
	P01083 = 4		-8
else			-8

*wave i (i ≥ 2)*

PJ001 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,..)	P0i1160 in (1,2,3,7,9,..)	P0i1200 in (11,12)	1112
			P0i1200 in (1,53,99)	-9
			P0i1200 in (13, ..., 94)	P0i1200 *100
			P0i1200 in (97,..)	-8
		P0i1160 = 4		-8
	P0i1130 = 2			PJ007A (i-1)
else				-8

**PJ007B***wave i (i ≥ 1)*

PJ007A in (2100, 2200)	2122
PJ007A in (3100, 3200)	3132
PJ007A in (3300, 3400)	3334
PJ007A in (4100, 4200)	4142
PJ007A in (7100, 7400)	7174
PJ007A in (7200, 7300)	7273
PJ007A in (8100, 8300)	8183
else	PJ007A

**PJ007C***wave i (i ≥ 1)*

PJ007B > 0	int (PJ007B/1000)
else	PJ007B

## PJ008A

wave 1

PJ001 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,.)	P01088 in (1,...,5)	a+b
		P01088 in (10,...,14)	c
		P01088 in (15,16)	da
		P01088 in (17,18,19)	db+dc
		P01088 in (20,21,22)	dd+de
		P01088 in (23,24,25,26)	df-di
		P01088 in (27,28,29)	dj+dk
		P01088 in (30, ..., 37)	dl-dn
		P01088 in (40,41)	e
		P01088 = 45	f
		P01088 in (50,51,52)	g
		P01088 = 55	h
		P01088 in (60, ..., 64)	i
		P01088 in (65,66,67)	j
		P01088 in (70, ..., 74)	k
		P01088 = 75	l
		P01088 = 80	m
		P01088 = 85	n
		P01088 in (90, ..., 97)	o-q
		P01088 = 99	-9
		P01088 = .	-8
	P01083 in (4)	-8	
else		-8	

**PJ008A (CONT.)***wave i (i<sup>3</sup> 2)*

PJ001 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,..)	P0i1160 in (1,2,3,7,9,..)	P0i1210 in (1,...,5)	a+b
			P0i1210 in (10,...,14)	c
			P0i1210 in (15,16)	da
			P0i1210 in (17,18,19)	db+dc
			P0i1210 in (20,21,22)	dd+de
			P0i1210 in (23,24,25,26)	df-di
			P0i1210 in (27,28,29)	dj+dk
			P0i1210 in (30, ..., 37)	dl-dn
			P0i1210 in (40,41)	e
			P0i1210 = 45	f
			P0i1210 in (50,51,52)	g
			P0i1210 = 55	h
			P0i1210 in (60, ..., 64)	i
			P0i1210 in (65,66,67)	j
			P0i1210 in (70, ..., 74)	k
			P0i1210 = 75	l
			P0i1210 = 80	m
			P0i1210 = 85	n
			P0i1210 in (90, ..., 97)	o-q
			P0i1210 = 99	-9
			P0i1210 = .	-8
		P0i1160 = 4		-8
	P0i1130 = 2			PJ008A (i-1)
else				-8

**PJ008B***wave i (i<sup>3</sup> 1)*

PJ008A in (c,e)	c+e
else	PJ008A

**PJ008C***wave i (i<sup>3</sup> 1)*

PJ008B = a+b	1
PJ008B in (c+e, da,db+dc,dd+de,df-di,dj-dk,dl-dn,f	2
PJ008B in (g,h,i,j,k,l,m,n,o-q)	3
else	PJ008B

**PJ009***wave 1*

PJ001 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,..)	P01089 in (1,7,9,..)	P01090 in (1 ... 7)	P01090
			P01090 in (97,..)	-8
			P01090 in (9,99)	-9
		P01089 = 2		-8
	P01089 in (4)			-8
else				-8

*wave i (i ≥ 2)*

PJ001 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,..)	P0i1160 in (1,2,3,7,9,..)	P0i1220 in (1 ... 7)	P0i1220
			P0i1220 in (97,..)	-8
			P0i1220 in (9,99)	-9
		P0i1160 = 4		-8
	P0i1130 = 2			PJ009 (i-1)
else				-8

**PJ010***wave 1*

PJ001 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,..)	P01089 in (1,2)	P01089
		P01089 in (7,..)	-8
		P01089 in (9)	-9
	P01089 in (4)		-8
else			-8

*wave i (i ≥ 2)*

PJ001 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,..)	P0i1160 in (1,2,3,7,9,..)	P0i1230 in (1,2)	P0i1230
			P0i1230 in (7,..)	-8
			P0i1230 = 9	-9
		P0i1160 = 4		-8
	P0i1130 = 2			PJ010 (i-1)
else				-8

**PJ011***wave 1*

PJ006 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,.)	P01091 in (1,7,.)	P01092 in (1,2)	P01092
			P01092 in (7,.)	-8
			P01092 = 9	-9
		P01091 = 2		3
		P01091 = 9		-9
	P01089 in (4)			-8
else				-8

*wave i (i <sup>3</sup> 2)*

PJ006 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,.)	P0i1160 in (1,2,3,7,9,.)	P0i1250 in (1,7,.)	P0i1260 in (1,2)	P0i1260
				P0i1260 in (7,.)	-8
				P0i1260 = 9	-9
			P0i1250 = 2		3
		P0i1250 = 9		-9	
	P0i1160 = 4		-8		
	P0i1130 = 2				PJ011 (i-1)
else					-8

**PJ012***wave 1*

PJ001 = 1 and PE003 in (2,3,4,5)	P01083 in (1,2,3,7,9,..)	P01093 in (1,2)	P01093
		P01093 in (7,..)	-8
		P01093 = 9	-9
	P01089 in (4)		-8
else			-8

*wave i (i <sup>3</sup> 2)*

PJ001 = 1 and PE003 in (2,3,4,5)	P0i1130 in (1,7,.)	P0i1160 in (1,2,3,7,9,.)	P0i1270 in (1,2)	P0i1270
			P0i1270 in (7,.)	-8
			P0i1270 = 9	-9
		P0i1160 = 4		-8
	P0i1130 = 2			PJ012 (i-1)
else				-8





## **PC - CALENDAR OF ACTIVITIES**

## PC001

wave 1

P01121 in (1,7,9,..)	P01123 = 1	1
	P01123 in (2 ... 10)	P01123+1
	P01123 in (97,..)	-8
	P01123 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1730 in (1 ... 10)	P0i1730
	P0i1730 in (97,..)	-8
	P0i1730 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1730 in (1 ... 10)	P0i1730
P0i1730 in (97,..)	-8
P0i1730 = 99	-9

## PC002

wave 1

P01121 in (1,7,9,..)	P01124 = 1	1
	P01124 in (2 ... 10)	P01124+1
	P01124 in (97,..)	-8
	P01124 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1740 in (1 ... 10)	P0i1740
	P0i1740 in (97,..)	-8
	P0i1740 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1740 in (1 ... 10)	P0i1740
P0i1740 in (97,..)	-8
P0i1740 = 99	-9

## PC003

wave 1

P01121 in (1,7,9,..)	P01125 = 1	1
	P01125 in (2 ... 10)	P01125+1
	P01125 in (97,..)	-8
	P01125 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1750 in (1 ... 10)	P0i1750
	P0i1750 in (97,..)	-8
	P0i1750 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1750 in (1 ... 10)	P0i1750
P0i1750 in (97,..)	-8
P0i1750 = 99	-9

## PC004

wave 1

P01121 in (1,7,9,..)	P01126 = 1	1
	P01126 in (2 ... 10)	P01126+1
	P01126 in (97,..)	-8
	P01126 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1760 in (1 ... 10)	P0i1760
	P0i1760 in (97,..)	-8
	P0i1760 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1760 in (1 ... 10)	P0i1760
P0i1760 in (97,..)	-8
P0i1760 = 99	-9

## PC005

wave 1

P01121 in (1,7,9,..)	P01127 = 1	1
	P01127 in (2 ... 10)	P01127+1
	P01127 in (97,..)	-8
	P01127 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1770 in (1 ... 10)	P0i1770
	P0i1770 in (97,..)	-8
	P0i1770 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1770 in (1 ... 10)	P0i1770
P0i1770 in (97,..)	-8
P0i1770 = 99	-9

## PC006

wave 1

P01121 in (1,7,9,..)	P01128 = 1	1
	P01128 in (2 ... 10)	P01128+1
	P01128 in (97,..)	-8
	P01128 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1780 in (1 ... 10)	P0i1780
	P0i1780 in (97,..)	-8
	P0i1780 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1780 in (1 ... 10)	P0i1780
P0i1780 in (97,..)	-8
P0i1780 = 99	-9

**PC007***wave 1*

P01121 in (1,7,9,..)	P01129 = 1	1
	P01129 in (2 ... 10)	P01129+1
	P01129 in (97,..)	-8
	P01129 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

*wave 2 and 3*

P0i01710 in (1,7,9,..)	P0i1790 in (1 ... 10)	P0i1790
	P0i1790 in (97,..)	-8
	P0i1790 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

*wave i (i <sup>3</sup> 4)*

P0i1790 in (1 ... 10)	P0i1790
P0i1790 in (97,..)	-8
P0i1790 = 99	-9

**PC008***wave 1*

P01121 in (1,7,9,..)	P01130 = 1	1
	P01130 in (2 ... 10)	P01130+1
	P01130 in (97,..)	-8
	P01130 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

*wave 2 and 3*

P0i01710 in (1,7,9,..)	P0i1800 in (1 ... 10)	P0i1800
	P0i1800 in (97,..)	-8
	P0i1800 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

*wave i (i <sup>3</sup> 4)*

P0i1800 in (1 ... 10)	P0i1800
P0i1800 in (97,..)	-8
P0i1800 = 99	-9

## PC009

wave 1

P01121 in (1,7,9,..)	P01131 = 1	1
	P01131 in (2 ... 10)	P01131+1
	P01131 in (97,..)	-8
	P01131 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1810 in (1 ... 10)	P0i1810
	P0i1810 in (97,..)	-8
	P0i1810 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1810 in (1 ... 10)	P0i1810
P0i1810 in (97,..)	-8
P0i1810 = 99	-9

## PC010

wave 1

P01121 in (1,7,9,..)	P01132 = 1	1
	P01132 in (2 ... 10)	P01132+1
	P01132 in (97,..)	-8
	P01132 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

wave 2 and 3

P0i01710 in (1,7,9,..)	P0i1820 in (1 ... 10)	P0i1820
	P0i1820 in (97,..)	-8
	P0i1820 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

wave  $i$  ( $i \geq 4$ )

P0i1820 in (1 ... 10)	P0i1820
P0i1820 in (97,..)	-8
P0i1820 = 99	-9

**PC011***wave 1*

P01121 in (1,7,9,..)	P01133 = 1	1
	P01133 in (2 ... 10)	P01133+1
	P01133 in (97,..)	-8
	P01133 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

*wave 2 and 3*

P0i01710 in (1,7,9,..)	P0i1830 in (1 ... 10)	P0i1830
	P0i1830 in (97,..)	-8
	P0i1830 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

*wave i (i <sup>3</sup> 4)*

P0i1830 in (1 ... 10)	P0i1830
P0i1830 in (97,..)	-8
P0i1830 = 99	-9

**PC012***wave 1*

P01121 in (1,7,9,..)	P01134 = 1	1
	P01134 in (2 ... 10)	P01134+1
	P01134 in (97,..)	-8
	P01134 = 99	-9
P01121 = 2	P01122 = 1	1
	P01122 in (2 ... 10)	P01122+1
	P01122 in (97,..)	-8
	P01122 = 99	-9

*wave 2 and 3*

P0i01710 in (1,7,9,..)	P0i1840 in (1 ... 10)	P0i1840
	P0i1840 in (97,..)	-8
	P0i1840 = 99	-9
P0i01710 = 2	P0i1720 in (1 ... 10)	P0i1720
	P0i1720 in (97,..)	-8
	P0i1720 = 99	-9

*wave i (i <sup>3</sup> 4)*

P0i1840 in (1 ... 10)	P0i1840
P0i1840 in (97,..)	-8
P0i1840 = 99	-9

## PC013

wave  $i$  ( $i \geq 1$ )

Step 1: Calculate the following auxiliary variables for each month (MM = 01 to 12)

Calendar information is known (yes / no) filledMM

PC0MM > 0	1
else	.

Activity status (active / inactive / missing) activeMM

PC0MM in (1,2,3,4,6)	1
PC0MM in (5,7,8,9,10)	0
else	.

Employment status (In Employment / unemployed / inactive or missing) employMM

PC0MM in (1,2,3,4)	1
PC0MM = 6	0
else	.

Wage earner or self-employed (wage / self-employed / other) wageMM

PC0MM in (1,2,4)	1
PC0MM = 3	0
else	.

Inactivity status (retired / other inactive / active or missing) retireMM

PC0MM = 7	1
PC0MM in (5,8,9,10)	0
else	.

Step 2:

sum(active01,...,active12) / sum(filled01,...,filled12) ≥ 0.5	sum(employ01,...,employ12) / sum(active01,...,active12) ≥ 0.5	sum(wage01,...,wage12) / sum(employ01,...,employ12)≥0.5	1
		sum(wage01,...,wage12) / sum(employ01,...,employ12)<0.5	2
	sum(employ01,...,employ12) / sum(active01,...,active12) < 0.5		3
sum(active01,...,active12) / sum(filled01,...,filled12) < 0.5	sum(retire01,...,retire12) / [sum(filled01,...,filled12) -sum(active01,...,active12)] ≥ 0.5		4
	sum(retire01,...,retire12) / [sum(filled01,...,filled12) - sum(active01,...,active12)] < 0.5		5
sum(filled01,...,filled12) = .			-9



## **PI - INCOME**

See Doc.PAN. 164 for construction and imputation of income variables.



**PT - TRAINING AND EDUCATION**

## PT001

wave 1

P01110 in (1,2)	P01110
P01110 in (7,.)	-8
P01110 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i1480 = 1 or P0i1540 = 1 or P0i1690 = 1 or P0i1700 = 1	1
P0i1480 = 2 or P0i1540 = 2 or P0i1690 = 2 or P0i1700 = 2	2
P0i1480 = 9 or P0i1540 = 9 or P0i1690 = 9 or P0i1700 = 9	-9
P0i1480 in (7,.) and P0i1540 in (7,.) and P0i1690 in (7,.) and P0i1700 in (7,.)	-8

## PT002

wave 1

PT001 = 1	P01112 in (1,2,3,4)	2
	P01112 in (5,6,7)	6
	P01112 in (8,9)	7
	P01112 in (97,.)	-8
	P01112 = 99	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PT001 = 1	P0i1480 = 1 and P0i1540 = 1 and ( P0i1690 = 1 or P0i1700 = 1 )	1
	P0i1480 = 1 and P0i1540 = 1	2
	P0i1480 = 1 and ( P0i1690 = 1 or P0i1700 = 1 )	3
	P0i1480 = 1	5
	P0i1540 = 1 and ( P0i1690 = 1 or P0i1700 = 1 )	4
	P0i1540 = 1	6
	P0i1690 = 1 or P0i1700 = 1	7
else		-8

## PT003

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,3,5)	P0i1490 = 1	1991+i
	P0i1490 = 2	1992+i
	P0i1490 = 3	1993+i
	P0i1490 in(7,.)	-8
	P0i1490 = 9	-9
else		-8

**PT004***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

PT003 in (1992+i,1993+i)	P0i1500 in (1 ... 12)	P0i1500
	P0i1500 in(97,..)	-8
	P0i1500 = 99	-9
else		-8

**PT005***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

PT002 in (1,2,3,5)	P0i1510 = 1	1992+i
	P0i1510 = 2	1993+i
	P0i1510 = 3	0
	P0i1510 in (7,..)	-8
	P0i1510 = 9	-9
else		-8

**PT006***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

PT005 in (1992+i,1993+i)	P0i1520 in (1 ... 12)	P0i1520
	P0i1520 in(97,..)	-8
	P0i1520 = 99	-9
else		-8

## PT007

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,3,5)	P0i1530 in (1 ... 6)	P0i1530
	P0i1530 in (7,..)	-8
	P0i1530 = 9	-9
else		-8

## PT007A

wave 1

PT002 in (1,2,3,5)	P01112 in (1,2,3,4)	P01112
	P01112 = 9	-9
	else	-8
else		-8

wave  $i$  ( $i \geq 2$ )

PT007 in (1,2,3)	1
PT007 in (4,5,6)	PT007 - 2
else	PT007

## PT008

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,4,6)	P0i1590 = 1	1991+i
	P0i1590 = 2	1992+i
	P0i1590 = 3	1993+i
	P0i1590 in(7,..)	-8
	P0i1590 = 9	-9
else		-8

**PT009***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

PT008 in (1992+i,1993+i)	P0i1600 in (1 ... 12)	P0i1600
	P0i1600 in(97,..)	-8
	P0i1600 = 99	-9
else		-8

**PT010***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

PT002 in (1,2,4,6)	P0i1610 = 1	1992+i
	P0i1610 = 2	1993+i
	P0i1610 = 3	0
	P0i1610 in (7,..)	-8
	P0i1610 = 9	-9
else		-8

**PT011***wave 1*

	-8
--	----

*wave i (i ≥ 2)*

PT010in (1992+i,1993+i)	P0i1620 in (1 ... 12)	P0i1620
	P0i1620 in(97,..)	-8
	P0i1620 = 99	-9
else		-8

## PT012

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,4,6)	P0i1630 in (1,2,3,4)	P0i1630
	P0i1630 in (5,6,7)	5
	P0i1630 = .	-8
	P0i1630 = 9	-9
else		-8

## PT013

wave 1

PT002 in (1,2,4,6)	P01115 in (1,2,3)	P01115
	P01115 in (7,..)	-8
	P01115 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,4,6)	P0i1550 in (1,2,3)	P0i1550
	P0i1550 in (7,..)	-8
	P0i1550 = 9	-9
else		-8

## PT014

wave 1

PT013 = 1	P01116 in (1 ... 13)	P01116
	P01116 in (97,..)	-8
	P01116 = 99	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PT013 = 1	P0i1560 in (1 ... 13)	P0i1560
	P0i1560 in (97,..)	-8
	P0i1560 = 99	-9
else		-8



**PT015***wave 1*

PT013 = 2	P01117 in (2 ... 9)	P01117
	P01117 in (97,..)	-8
	P01117 = 99	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PT013 = 2	P0i1570 in (2 ... 9)	P0i1570
	P0i1570 in (97,..)	-8
	P0i1570 = 99	-9
else		-8

**PT016***wave 1*

PT013 = 3	P01118 in (3 ... 96)	P01118
	P01118 in (97,..)	-8
	P01118 = 99	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PT013 = 3	P0i1580 in (3 ... 96)	P0i1580
	P0i1580 in (97,..)	-8
	P0i1580 = 99	-9
else		-8

**PT017***wave 1*

PT002 in (1,2,4,6)	P01113 in (1,2,3)	P01113
	P01113 in (7,..)	-8
	P01113 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PT002 in (1,2,4,6)	P0i1640 in (1,2,3)	P0i1640
	P0i1640 in (7,..)	-8
	P0i1640 = 9	-9
else		-8

## PT018

wave 1

PT002 in (1,2,4,6)	P01114 in (1,2,3)	P01114
	P01114 in (7,..)	-8
	P01114 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,4,6)	P0i1650 in (1,2,3)	P0i1650
	P0i1650 in (7,..)	-8
	P0i1650 = 9	-9
else		-8

## PT019

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PT018 = 2	P0i1660 in (1 ... 96)	P0i1660
	P0i1660 in (97,..)	-8
	P0i1660 = 99	-9
else		-8

## PT020

wave 1

PT002 in (1,2,4,6)	P01119 in (1,2)	P01119
	P01119 in (7,..)	-8
	P01119 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,4,6)	P0i1670 in (1,2)	P0i1670
	P0i1670 in (7,..)	-8
	P0i1670 = 9	-9
else		-8

## PT021

wave 1

PT020 = 1	P01120 in (1,2,3,4)	P01120
	P01120 in (7,..)	-8
	P01120 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PT002 in (1,2,4,6)	P0i1680 in (1,2)	P0i1680
	P0i1680 in (7,..)	-8
	P0i1680 = 9	-9
else		-8

## PT022

wave 1

P01341 = 1 or P01345 = 1	1
P01341 = 2 or P01346 = 1 or P01348 = 1	2
P01341 in (5,7,..)	-8
P01341 in (3,4) or P01347 = 1 or P01349 = 1 or P01350 = 1	3
P01341 = 9	-9

wave  $i$  ( $i = 2, 3$  and  $4$ )

P0i3590 in (1,7,..)	P0i3820 = 1 or P0i3860 = 1	1
	P0i3820 = 2 or P0i3870 = 1 or P0i3880 = 1	2
	P0i3820 in (5,7,..)	-8
	P0i3820 in (3,4) or P0i3890 = 1 or P0i3900 = 1 or P0i3910 = 1	3
	P0i3820 = 9	-9
P0i3590 = 2		PT022 (i-1)

wave  $i$  ( $i \geq 5$ )

P0i3820 = 1 or P0i3860 = 1	1
P0i3820 = 2 or P0i3870 = 1 or P0i3880 = 1	2
P0i3820 in (5,7,..)	-8
P0i3820 in (3,4) or P0i3890 = 1 or P0i3900 = 1 or P0i3910 = 1	3
P0i3820 = 9	-9

## PT023

wave 1

P01341 ≠ 1 and (P01345 = 1 or P01346 = 1 or P01348 = 1 or P01347 = 1 or P01349 = 1 or P01350 = 1)	P01353 in (10 ... 75)	P01353
	P01353 in (97,..)	-8
	P01353 = 99	-9
else	P01343 in (9 ... 75)	P01353
	P01343 in (97,..)	-8
	P01343 = 99	3

wave  $i$  ( $i = 2, 3$  and  $4$ )

P0i3590 in (1,7,.)	P0i3820 ≠1 and (P0i3860 = 1 or P0i3870 = 1 or P0i3880 = 1 or P0i3890 = 1 or P0i3900 = 1 or P0i3910 = 1)	P0i3940 in (10 ... 75)	P0i3940
		P0i3940 in (97,.)	-8
		P0i3940 = 99	-9
	else	P0i3840 in (9 ... 75)	P0i3840
		P0i3840 in (97,.)	-8
		P0i3840 = 99	3
else			PT023 (i-1)

wave  $i$  ( $i \geq 5$ )

P0i3820 ≠ 1 and (P0i3860 = 1 or P0i3870 = 1 or P0i3880 = 1 or P0i3890 = 1 or P0i3900 = 1 or P0i3910 = 1)	P0i3940 in (10 ... 75)	P0i3940
	P0i3940 in (97,..)	-8
	P0i3940 = 99	-9
else	P0i3840 in (9 ... 75)	P0i3840
	P0i3840 in (97,..)	-8
	P0i3840 = 99	3

## PT024

wave  $i$  ( $i \in 4$ )

	-8
--	----

wave  $i$  ( $i \geq 5$ )

P0i3815 in (1 ... 96)	P0i3815
P0i3815 in (97,..)	-8
P0i3815 = 99	-9

## PT025

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

P0i3951 in (1 ... 15)	P0i3951
P0i3951 in (16 ... 96)	16
P0i3951 in (97,..)	-8
P0i3951 = 99	-9

## PT026

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

P0i3952 in (1,2)	P0i3952
P0i3952 in (7,..)	-8
P0i3952 = 9	-9

## PT027

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

P0i3953 in (1,2)	P0i3953
P0i3953 in (7,..)	-8
P0i3953 = 9	-9

## PT028

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

P0i3954 in (1,2)	P0i3954
P0i3954 in (7,..)	-8
P0i3954 = 9	-9

## PT029

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

P0i3955 in (1,2)	P0i3955
P0i3955 in (7,.)	-8
P0i3955 = 9	-9

## PT030

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

Country = Spain	PE003 in (1,2)	P0i3957 in (1 ... 15)	P0i3957
		P0i3957 in (16 ... 96)	16
		P0i3957 in (97,.)	-8
		P0i3957 = 99	-9
	else		-8
else	P0i3956 = 1	P0i3957 in (1 ... 15)	P0i3957
		P0i3957 in (16 ... 96)	16
		P0i3957 in (97,.)	-8
		P0i3957 = 99	-9
	else	PE003 in (1,2)	PT025
		else	-8

## PT031

wave  $i$  ( $i \in 6$ )

	-8
--	----

wave  $i$  ( $i \in 7$ )

Country = Spain	PE003 in (1,2)	P0i3958 in (1 ... 15)	P0i3958
		P0i3958 in (16 ... 96)	16
		P0i3958 in (97,.)	-8
		P0i3958 = 99	-9
	else		-8
else	$1 \leq P0i3957 \leq 97$	P0i3958 in (1 ... 15)	P0i3958
		P0i3958 in (16 ... 96)	16
		P0i3958 in (97,.)	-8
		P0i3958 = 99	-9
	else		-8

**PH - HEALTH**

## PH001

wave 1

P01301 in (1,2,3,4,5)	P01301
P01301 in (7,..)	-8
P01301 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i3390 in (1,2,3,4,5)	P0i3390
P0i3390 in (7,..)	-8
P0i3390 = 9	-9

## PH002

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

P0i3400 in (1,2)	P0i3400
P0i3400 in (7,..)	-8
P0i3400 = 9	-9

## PH003

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

PH002 = 1	P0i3410 in (1,2,3)	P0i3410
	P0i3410 in (7,..)	-8
	P0i3410 = 9	-9
else		-8



**PH003A***wave 1*

P01302 in (1,2,3)	P01302
P01302 in (7,.)	-8
P01302 = 9	-9

*wave i (i <sup>3</sup> 2)*

PH002 = 1	PH003
PH002 = 2	3
else	PH002

**PH004***wave 1*

P01303 in (1,2)	P01303
P01303 in (7,.)	-8
P01303 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3420 in (1,2)	P0i3420
P0i3420 in (7,.)	-8
P0i3420 = 9	-9

**PH005***wave 1*

P01304 in (1,2)	P01304
P01304 in (7,.)	-8
P01304 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3430 in (1,2)	P0i3430
P0i3430 in (7,.)	-8
P0i3430 = 9	-9

**PH006***wave 1*

P01305 in (1,2)	P01305
P01305 in (7,..)	-8
P01305 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3440 in (1,2)	P0i3440
P0i3440 in (7,..)	-8
P0i3440 = 9	-9

**PH007***wave 1*

PH006 = 1	P01306 in (1 ... 365)	P01306
	P01306 in (997,..)	-8
	P01307 = 999	-9
PH006 = 2		0
else		PH006

*wave i (i <sup>3</sup> 2)*

PH006 = 1	P0i3450 in (1 ... 365)	P0i3450
	P0i3450 in (997,..)	-8
	P0i3540 = 999	-9
PH006 = 2		0
else		PH006

**PH008***wave 1*

	-8
--	----

*wave i (i <sup>3</sup> 2)*

P0i3460 in (0 ... 96)	P0i3460
P0i3460 in (97,..)	-8
P0i3460 = 99	-9

**PH009**

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

P0i3470 in (0 ... 96)	P0i3470
P0i3470 in (97,..)	-8
P0i3470 = 99	-9

**PH010**

wave 1

	-8
--	----

wave  $i$  ( $i \geq 2$ )

P0i3480 in (0 ... 96)	P0i3480
P0i3480 in (97,..)	-8
P0i3480 = 99	-9

**PH011**

wave 1

P01307 in (1,2,3,4,5)	P01307
P01307 in (7,..)	-8
P01307 = 9	-9

wave  $i$  ( $i \geq 2$ )

PH008 = -9 or PH009 = -9 or PH010 = -9	-9
PH008 = -8 or PH009 = -8 or PH010 = -8	-8
PH008 + PH009 + PH010 = 0	1
PH008 + PH009 + PH010 in (1,2)	2
PH008 + PH009 + PH010 in (3,4,5)	3
PH008 + PH009 + PH010 in (6,7,8,9)	4
PH008 + PH009 + PH010 in (10 ... 288)	5

## PH012

wave  $i$  ( $i = 1$ )

	-8
--	----

wave  $i$  ( $2 \leq i \leq 4$ )

P0i3490 in (1,2)	P0i3490
P0i3490 in (7,.)	-8
P0i3490 = 9	-9

wave  $i$  ( $i \geq 5$ )

	-8
--	----

## PH013

wave 1

P01308 in (1,2,3)	P01308
P01308 in (7,.)	-8
P01308 = 9	-9

wave  $i$  ( $2 \leq i \leq 4$ )

P0i3500 in (1,2,3)	P0i3500
P0i3500 in (7,.)	-8
P0i3500 = 9	-9

wave  $i$  ( $i \geq 5$ )

	-8
--	----

## PH014

wave 1

PH013 = 1	P01309 in (1,2,3)	P01309
	P01309 in (7,.)	-8
	P01309 = 9	-9
else		-8

wave  $i$  ( $2 \leq i \leq 4$ )

PH013 = 1	P0i3510 in (1,2,3)	P0i3510
	P0i3510 in (7,.)	-8
	P0i3510 = 9	-9
else		-8

wave  $i$  ( $i \geq 5$ )

	-8
--	----

## PH015

wave 1

PH014 = 1	P01310
else	-8

wave  $i$  ( $2 \leq i \leq 4$ )

PH014 = 1      P0i3510 in (1,2,3)	P0i3520
else	-8

wave  $i$  ( $i \geq 5$ )

	-8
--	----

## PH016

wave  $i$  ( $i \leq 4$ )

	-8
--	----

wave  $i$  ( $i \geq 5$ )

P0i3481 in (1,2)		P0i3481
P0i3481 = 3	P0i3482 in (1,2,3)	P0i3482 + 2
	P0i3482 in (7,..)	-8
	P0i3482 = 9	-9
P0i3481 in (7,..)		-8
P0i3481 = 9		-9

## PH017

wave  $i$  ( $i \leq 4$ )

	-8
--	----

wave  $i$  ( $i \geq 5$ )

PH016 in (1,3)	P0i3483 in (0 ... 96)	P0i3483
	P0i3483 in (97,..)	-8
	P0i3483 = 99	-9
else		-8

## PH018

wave  $i$  ( $i \in 4$ )

	-8
--	----

wave  $i$  ( $i \in 5$ )

PH016 in (1,3)	P0i3484 in (0 ... 96)	P0i3484
	P0i3484 in (97,..)	-8
	P0i3484 = 99	-9
else		-8

## PH019

wave  $i$  ( $i \in 4$ )

	-8
--	----

wave  $i$  ( $i \in 5$ )

PH016 in (1,3)	P0i3485 in (0 ... 96)	P0i3485
	P0i3485 in (97,..)	-8
	P0i3485 = 99	-9
else		-8

## PH020

wave  $i$  ( $i \in 4$ )

	-8
--	----

wave  $i$  ( $i \in 5$ )

P0i3486 in (100 ... 250)	P0i3486
P0i3486 in (997,..)	-8
P0i3486 = 999	-9

## PH021

wave  $i$  ( $i \in 4$ )

	-8
--	----

wave  $i$  ( $i \in 5$ )

P0i3487 in (10 ... 250)	P0i3487
P0i3487 in (997,..)	-8
P0i3487 = 999	-9

**PH022***wave i (i £ 4)*

	-8
--	----

*wave i (i ≥ 5)*

PH020 = -8 or PH021 = -8	-8
PH020 = -9 or PH021 = -9	-9
else	PH021 / (PH020/100 * PH020/100)





**PR - SOCIAL RELATIONS**

## PR001

wave 1

P01095 = 1 and P01096 = 1 and P01097 = 1	8
P01095 = 1 and P01096 = 1 and P01097 in (2,9)	5
P01095 = 1 and P01096 in (2,9) and P01097 = 1	6
P01095 = 1 and P01096 in (2,9) and P01097 in (2,9)	2
P01095 in (2,9) and P01096 = 1 and P01097 = 1	7
P01095 in (2,9) and P01096 = 1 and P01097 in (2,9)	3
P01095 in (2,9) and P01096 in (2,9) and P01097 = 1	4
P01095 in (2,9) and P01096 in (2,9) and P01097 in (2,9)	1
P01095 in (7,.) and P01096 in (7,.) and P01097 in (7,.)	-8

wave  $i$  ( $i \geq 2$ )

P0i1320 = 1		1
P0i1320 in (2,.)	P0i1330 = 1 and P0i1340 = 1 and P0i1350 = 1	8
	P0i1330 = 1 and P0i1340 = 1 and P0i1350 in (2,9)	5
	P0i1330 = 1 and P0i1340 in (2,9) and P0i1350 = 1	6
	P0i1330 = 1 and P0i1340 in (2,9) and P0i1350 in (2,9)	2
	P0i1330 in (2,9) and P0i1340 = 1 and P0i1350 = 1	7
	P0i1330 in (2,9) and P0i1340 = 1 and P0i1350 in (2,9)	3
	P0i1330 in (2,9) and P0i1340 in (2,9) and P0i1350 = 1	4
	P0i1330 in (2,9) and P0i1340 in (2,9) and P0i1350 in (2,9)	1
	P0i1330 in (7,.) and P0i1340 in (7,.) and P0i1350 in (7,.)	-8
P0i1320 = 7		-8
P0i1320 = 9		-9

## PR002

wave 1

P01106 in (1,2)	P01106
P01106 in (7,.)	-8
P01106 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i1440 in (1,2)	P0i1440
P0i1440 in (7,.)	-8
P0i1440 = 9	-9

**PR003***wave 1*

P01107 in (1,2,3,4,5)	P01107
P01107 in (7,..)	-8
P01107 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i1450 in (1,2,3,4,5)	P0i1450
P0i1450 in (7,..)	-8
P0i1450 = 9	-9

**PR004***wave 1*

P01108 in (1,2,3,4,5)	P01108
P01108 in (7,..)	-8
P01108 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i1460 in (1,2,3,4,5)	P0i1460
P0i1460 in (7,..)	-8
P0i1460 = 9	-9

**PR005***wave 1*

PR004 in (4,5,-9)	P01109 in (1,2)	P01109
	P01109 in (7,..)	-8
	P01109 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PR004 in (4,5,-9)	P0i1470 in (1,2)	P0i1460
	P0i1470 in (7,..)	-8
	P0i1470 = 9	-9
else		-8

## PR006

wave 1

P01098 = 1 and P01100 = 1	3
P01098 = 1	1
P01100 = 1	2
P01098 = 2 or P01100 = 2	4
P01098 in (7,.) and P01100 in (7,.)	-8
P01098 = 9 or P01100 = 9	-9

wave  $i$  ( $i \geq 2$ )

P0i1360 = 1 and P0i1380 = 1	3
P0i1360 = 1	1
P0i1380 = 1	2
P0i1360 = 2 or P0i1380 = 2	4
P0i1360 in (7,.) and P0i1380 in (7,.)	-8
P0i1360 = 9 or P0i1380 = 9	-9

## PR007

wave 1

PR006 in (1,3)	P01099 in (1,2,3)	P01099
	P01099 in (7,.)	-8
	P01099 = 9	-9
else		-8

wave  $i$  ( $i \geq 2$ )

PR007A in (1 ... 13)	1
PR007A in (14 ... 28)	2
PR007A in (29 ... 96)	3
else	PR007A

**PR007A***wave 1*

	-8
--	----

*wave i (i <sup>3</sup> 2)*

PR006 in (1,3)	P0i1370 in (1 ... 96)	P0i1370
	P0i1370 in (97,..)	-8
	P0i1370 = 99	-9
else		-8

**PR008***wave 1*

PR006 in (2,3)	P01103 in (1,2,3)	P01103
	P01103 in (7,..)	-8
	P01103 = 9	-9
else		-8

*wave i (i <sup>3</sup> 2)*

PR008A in (1 ... 13)	1
PR008A in (14 ... 28)	2
PR008A in (29 ... 96)	3
else	PR008A

**PR008A***wave 1*

	-8
--	----

*wave i (i <sup>3</sup> 2)*

PR006 in (2,3)	P0i1410 in (1 ... 96)	P0i1410
	P0i1410 in (97,..)	-8
	P0i1410 = 99	-9
else		-8

**PR009***wave 1*

PR006 in (2,3)	P01101 = 1 and P01102 = 1	3
	P01101 = 1	1
	P01102 = 1	2
	P01101 in (2,7,..) or P01102 in (2,7,..)	-8
	P01101 = 9 or P01102 = 9	-9
else		-8

*wave i (i ≥ 2)*

PR006 in (2,3)	P0i1390 = 1 and P0i1400 = 1	3
	P0i1390 = 1	1
	P0i1400 = 1	2
	P0i1390 in (2,7,..) or P0i1400 in (2,7,..)	-8
	P0i1390 = 9 or P0i1400 = 9	-9
else		-8

**PR010***wave 1*

PR006 in (1,2,3)	P01105 in (1,2)	P01105
	P01105 in (7,..)	-8
	P01105 = 9	-9
else		-8

*wave i (i ≥ 2)*

PR006 in (1,2,3)	P0i1430 in (1,2)	P0i1430
	P0i1430 in (7,..)	-8
	P0i1430 = 9	-9
else		-8

**PM - MIGRATION**

PM001

wave 1

P01312 = 1	P01313 = 1		1
	P01313 = 2	P01315 = 1	2
		P01315 = 2	3
		P01315 in (7,..)	-8
		P01315 = 9	-9
	P01313 in (7,..)		-8
	P01313 = 9		-9
P01312 = 2	P01318 = 997,.. or P01320 = 997,..		-8
	P01318 = 999 or P01320 = 999		-9
	P01318 = P01320		4
	P01318 ≠ P01320		6
P01312 in (7,..)			-8
P01312 = 9			-9



## PM001 (CONT.)

wave  $i$  ( $i^3 2$ )

P0i3590 = 1	P0i3640 = 1			1		
	P0i3640 = 2	P0i3660 = 1	P0i3690 = 1		2	
			P0i3690 = 2	P0i3700 in (997,.) or P0i3710 in (997,.)		-8
				P0i3700 = 999 or P0i3710 = 999		-9
				P0i3700 = P0i3710		4
				P0i3700 ≠ P0i3710		6
			P0i3690 in (7,.)		-8	
			P0i3690 = 9		-9	
		P0i3660 = 2	P0i3730 = 1 and COUNTRY = 6 or P0i3730 = 2 and COUNTRY = 4 or P0i3730 = 3 and COUNTRY = 3 or P0i3730 = 4 and COUNTRY = 1 or P0i3730 = 5 and COUNTRY = 9 or P0i3730 = 6 and COUNTRY = 7 or P0i3730 = 7 and COUNTRY = 8 or P0i3730 = 8 and COUNTRY = 2 or P0i3730 = 9 and COUNTRY = 10 or P0i3730 = 10 and COUNTRY = 12 or P0i3730 = 11 and COUNTRY = 11 or P0i3730 = 12 and COUNTRY = 5 or P0i3730 = 38 and COUNTRY = 13 or P0i3730 = 32 and COUNTRY = 14		3	
			P0i3730 in (997,.) or P0i3680 in (997,.)		-8	
			P0i3730 = 999 or P0i2680 = 999		-9	
			P0i3730 = P0i2680		4	
			P0i3730 ≠ P0i2680		6	
			P0i3660 in (7,.)		-8	
			P0i3660 = 9		-9	
			P0i3640 in (7,.)		-8	
		P0i3640 = 9		-9		
		P0i3590 = 2			PM001(i-1)	

## PM003

wave 1

P01312 = 1	P01313 = 1		PD001
	P01313 = 2	P01314 in (1880 ... 1994)	P01314
		P01314 in (9997,..)	
		P01314 = 9999	
	P01313 in (7,..)		-8
	P01313 = 9		-9
P01312 in (2,7,..)			-8
P01312 = 9			-9

wave  $i$  ( $i \geq 2$ )

P0i3590 = 1	P0i3640 = 1		1
	P0i3640 = 2	P0i3650 in (1880 ... 1993+i)	P0i3650
		P0i3650 in (9997,..)	-8
		P0i3650 = 9999	-9
	P0i3640 in (7,..)		-8
	P0i3640 = 9		-9
P0i3590 = 2			PM003(i-1)

## PM005A

wave 1

PM001 = 3	P01317 in (1 ...12, 30, 32, 38, 900, 901)	901
	P01317 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)	902
	P01317 in (910)	910
	P01317 in (204 ... 224, 911)	911
	P01317 in (228 ... 288, 912)	912
	P01317 in (302 ... 395, 913)	913
	P01317 in (920)	920
	P01317 in (400 ... 408, 921)	921
	P01317 in (412 ... 529, 922)	922
	P01317 in (930)	930
	P01317 in (600 ... 653, 931)	931
	P01317 in (660 ... 743, 932)	932
	P01317 in (800 ... 890, 940)	940
	P01317 in (990)	990
	P01317 in (997,.)	-8
	P01317 in (999)	-9
PM001 in (4,6)	P01320 in (1 ...12, 30, 32, 38, 900, 901)	901
	P01320 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)	902
	P01320 in (910)	910
	P01320 in (204 ... 224, 911)	911
	P01320 in (228 ... 288, 912)	912
	P01320 in (302 ... 395, 913)	913
	P01320 in (920)	920
	P01320 in (400 ... 408, 921)	921
	P01320 in (412 ... 529, 922)	922
	P01320 in (930)	930
	P01320 in (600 ... 653, 931)	931
	P01320 in (660 ... 743, 932)	932
	P01320 in (800 ... 890, 940)	940
	P01320 in (990)	990
	P01320 in (997,.)	-8
	P01320 in (999)	-9
else		-8

## PM005A (CONT.)

wave  $i$  ( $i \geq 2$ )

PM001 in (3,4,6)	P0i3590 = 1	P0i3660 = 1	P0i3710 in (1...12, 30, 32, 38, 900, 901)	901	
			P0i3710 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)	902	
			P0i3710 in (910)	910	
			P0i3710 in (204 ... 224, 911)	911	
			P0i3710 in (228 ... 288, 912)	912	
			P0i3710 in (302 ... 395, 913)	913	
			P0i3710 in (920)	920	
			P0i3710 in (400 ... 408, 921)	921	
			P0i3710 in (412 ... 529, 922)	922	
			P0i3710 in (930)	930	
			P0i3710 in (600 ... 653, 931)	931	
			P0i3710 in (660 ... 743, 932)	932	
			P0i3710 in (800 ... 890, 940)	940	
			P0i3710 in (990)	990	
			P0i3710 in (997,..)	-8	
			P0i3710 in (999)	-9	
			P0i3660 = 2	P0i3680 in (1 ...12, 30, 32, 38, 900, 901)	901
				P0i3680 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)	902
		P0i3680 in (910)		910	
		P0i3680 in (204 ... 224, 911)		911	
		P0i3680 in (228 ... 288, 912)		912	
		P0i3680 in (302 ... 395, 913)		913	
		P0i3680 in (920)		920	
		P0i3680 in (400 ... 408, 921)		921	
	P0i3680 in (412 ... 529, 922)	922			
	P0i3680 in (930)	930			
	P0i3590 = 2	P0i3680 in (600 ... 653, 931)	931		
		P0i3680 in (660 ... 743, 932)	932		
		P0i3680 in (800 ... 890, 940)	940		
		P0i3680 in (990)	990		
		P0i3680 in (997,..)	-8		
		P0i3680 in (999)	-9		
		PM005A (i-1)			
	else		-8		

**PM005B***wave i (i<sup>3</sup> 1)*

PM005A in (911, 912, 913)	910
PM005A in (921, 922)	920
PM005A in (931, 932)	930
else	PM005A

**PM005C***wave i (i<sup>3</sup> 2)*

PM005B in (-8,-9)	PM005B
PM005B = 901	1
else	2

**PM006***wave 1*

PM001 = 3	PM003
PM001 in (4,6)	P01319 in (1880 ... 1994)
	P01319 in (9997,..)
	P01319 = 9999
else	-8

*wave i (i<sup>3</sup> 2)*

PM001 = 3	PM003
PM001 in (4,6)	P0i3590 = 1
	P0i3660 = 1
	P0i3720 in (1880 ... 1993+i)
	P0i3720 in (9997,..)
	P0i3720 = 9999
	P0i3660 = 2
	PM003
	P0i3590 = 2
	PM006(i-1)
else	-8

## PM007A

wave 1

PM001 in (4,6)	P01318 in (1 ...12, 30, 32, 38, 900, 901)	901
	P01318 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)	902
	P01318 in (910)	910
	P01318 in (204 ... 224, 911)	911
	P01318 in (228 ... 288, 912)	912
	P01318 in (302 ... 395, 913)	913
	P01318 in (920)	920
	P01318 in (400 ... 408, 921)	921
	P01318 in (412 ... 529, 922)	922
	P01318 in (930)	930
	P01318 in (600 ... 653, 931)	931
	P01318 in (660 ... 743, 932)	932
	P01318 in (800 ... 890, 940)	940
	P01318 in (990)	990
	P01318 in (997,.)	-8
	P01318 in (99,999)	-9
else		-8

## PM007A (CONT.)

wave  $i$  ( $i \geq 2$ )

PM001 in (4,6)	P0i3590 = 1	P0i3660 = 1	P0i3700 in (1 ...12, 30, 32, 38, 900, 901)	901
			P0i3700 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)	902
			P0i3700 in (910)	910
			P0i3700 in (204 ... 224, 911)	911
			P0i3700 in (228 ... 288, 912)	912
			P0i3700 in (302 ... 395, 913)	913
			P0i3700 in (920)	920
			P0i3700 in (400 ... 408, 921)	921
			P0i3700 in (412 ... 529, 922)	922
			P0i3700 in (930)	930
			P0i3700 in (600 ... 653, 931)	931
			P0i3700 in (660 ... 743, 932)	932
			P0i3700 in (800 ... 890, 940)	940
			P0i3700 in (990)	990
			P0i3700 in (997,..)	-8
			P0i3700 in (99,999)	-9
			P0i3660 = 2	P0i3730 in (1 ...12, 30, 32, 38, 900, 901)
		P0i3730 in (14, 15, 24, 28, 36, 37, 41, ... 97, 902)		902
		P0i3730 in (910)		910
		P0i3730 in (204 ... 224, 911)		911
		P0i3730 in (228 ... 288, 912)		912
		P0i3730 in (302 ... 395, 913)		913
		P0i3730 in (920)		920
		P0i3730 in (400 ... 408, 921)		921
		P0i3730 in (412 ... 529, 922)		922
		P0i3730 in (930)		930
		P0i3590 = 2	P0i3730 in (600 ... 653, 931)	931
	P0i3730 in (660 ... 743, 932)		932	
	P0i3730 in (800 ... 890, 940)		940	
	P0i3730 in (990)		990	
	P0i3730 in (997,..)		-8	
	P0i3730 in (99,999)		-9	
	PM007A (i-1)			
else			-8	

**PM007B***wave i (i<sup>3</sup> 1)*

PM007A in (911, 912, 913)	910
PM007A in (921, 922)	920
PM007A in (931, 932)	930
else	PM007A

**PM007C***wave i (i<sup>3</sup> 2)*

PM007B in (-8,-9)	PM007B
PM007B = 901	1
else	2

**PM008***wave 1*

P01321 = 1			1
P01321 = 2	P01322 = 1	P01323 in (1 ...12, 30, 32, 38, 900, 901)	2
		P01323 in (14, 15, 24, 28, 36, 37, 41, ... 890, 902 ... 996)	3
		P01323 in (997,999,..)	4
	P01322 in (2,9,7,..)		4
P01321 in (7,..)			-8
P01321 = 9			-9

*wave i (i<sup>3</sup> 2)*

P0i3550 = 1			1
P0i3550 = 2	P0i3560 = 1	P0i3570 in (1 ...12, 30, 32, 38, 900, 901)	2
		P0i3570 in (14, 15, 24, 28, 36, 37, 41, ... 890, 902 ... 996)	3
		P0i3570 in (997,999,..)	4
	P0i3560 in (2,9,7,..)		4
P0i3550 in (7,..)			-8
P0i3550 = 9			-9



## PM010

wave 1

PM008 = 1	P01322 in (1,2)		P01322
	P01322 in (7,.)		-8
	P01322 = 9		-9
PM008 in (2,3,4)	P01322 = 1	P01324 in (1 ... 990)	1
		P01324 in (997, .)	2
		P01324 = 999	-9
	P01322 = 2		2
	P01322 in (7,.)		-8
	P01322 = 9		-9
	else		

wave  $i$  ( $i \geq 2$ )

PM008 = 1	P0i3560 in (1,2)		P0i3560
	P0i3560 in (7,..)		-8
	P0i3560 = 9		-9
PM008 in (2,3,4)	P0i3560 = 1	P0i3580 in (1 ... 990)	1
		P0i3580 in (997, .)	2
		P0i3580 = 999	-9
	P0i3560 = 2		2
	P0i3560 in (7,..)		-8
	P0i3560 = 9		-9
	else		

## PM011

wave 1

PM010 = 1	PM008 = 1	P01323 in (1 ...12, 30, 32, 38, 900, 901)	1
		P01323 in (14, 15, 24, 28, 36, 37, 41, ... 890, 902 ... 996)	2
		P01323 in (997, .)	-8
		P01323 = 999	-9
	PM008 in (2,3,4)	P01324 in (1 ...12, 30, 32, 38, 900, 901)	1
		P01324 in (14, 15, 24, 28, 36, 37, 41, ... 890, 902 ... 996)	2
else		-8	

wave  $i$  ( $i \geq 2$ )

PM010 = 1	PM008 = 1	P0i3570 in (1 ...12, 30, 32, 38, 900, 901)	1
		P0i3570 in (14, 15, 24, 28, 36, 37, 41, ... 890, 902 ... 996)	2
		P0i3570 in (997, .)	-8
		P0i3570 = 999	-9
	PM008 in (2,3,4)	P0i3580 in (1 ...12, 30, 32, 38, 900, 901)	1
		P0i3580 in (14, 15, 24, 28, 36, 37, 41, ... 890, 902 ... 996)	2
else			-8

**PK - SATISFACTION**

**PK001***wave 1*

P01355 in (1,2,3,4,5,6)	P01355
P01355 in (7,..)	-8
P01355 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3960 in (1,2,3,4,5,6)	P0i3960
P0i3960 in (7,..)	-8
P0i3960 = 9	-9

**PK002***wave 1*

P01356 in (1,2,3,4,5,6)	P01356
P01356 in (7,..)	-8
P01356 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3970 in (1,2,3,4,5,6)	P0i3970
P0i3970 in (7,..)	-8
P0i3970 = 9	-9

**PK003***wave 1*

P01357 in (1,2,3,4,5,6)	P01357
P01357 in (7,..)	-8
P01357 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3980 in (1,2,3,4,5,6)	P0i3980
P0i3980 in (7,..)	-8
P0i3980 = 9	-9

## PK004

*wave 1*

P01358 in (1,2,3,4,5,6)	P01358
P01358 in (7,..)	-8
P01358 = 9	-9

*wave i (i <sup>3</sup> 2)*

P0i3990 in (1,2,3,4,5,6)	P0i3990
P0i3990 in (7,..)	-8
P0i3990 = 9	-9



**REGISTER FILE**





## **RG - GENERAL INFORMATION**

**WAVE***wave i (i<sup>3</sup> 1)*

	i
--	---

**COUNTRY***wave i (i<sup>3</sup> 1)*

	R0iCNTRY
--	----------

**HID***wave i (i<sup>3</sup> 1)*

	HIDi ( link file )
--	--------------------

**PID***wave i (i<sup>3</sup> 1)*

	R0iPFXID
--	----------

**RG001***wave i (i<sup>3</sup> 1)*

	D0iHHID
--	---------

**RG002**

For information on the construction of weights see Doc.PAN.165.

**RG003**

For information on the construction of weights see Doc.PAN.165.

## **RD - DEMOGRAPHIC INFORMATION**

## RD001

wave  $i$  ( $i^3 1$ )

	BIRTHYY (link file)
--	---------------------

## RD002

wave  $i$  ( $i^3 1$ )

	BIRTHMM (link file)
--	---------------------

## RD003

wave  $i$  ( $i^3 1$ )

PD001 = -9	-9
else	1993+i - RD001

## RD004

wave  $i$  ( $i^3 1$ )

	SEX (link file)
--	-----------------

## RD005

wave 1

	-8
--	----

wave  $i$  ( $i^3 2$ )

PELIGi (link file) = 1	R0iWORK in (1,2)	R0iWORK
	R0iWORK in (7,.)	-8
	R0iWORK = 9	-9
else		-8

**RELATIONSHIP FILE**

WAVE

wave  $i$  ( $i^3$  1)

	i
--	---

COUNTRY

wave  $i$  ( $i^3$  1)

	R0iCNTRY
--	----------

HID

wave  $i$  ( $i^3$  1)

	HIDi ( link file )
--	--------------------

PID1

wave  $i$  ( $i^3$  1)

	R0iPFXID
--	----------

**RELAT***wave 1*

Number of household members = 1	0
R01PART in (1 ... 20)	1
R01MTHR in (1 ... 20) or R01FTHR in (1 ... 20)	2
reconstruct with the combination of R01PART, R01MTHR, R01FTHR of several persons	3 4 5 6 7
else	-9

*wave i (i ≥ 1)*

based on relationship matrix

Number of household members = 1	0
R0iRELxx = 1	1
R0iRELxx in (2,10)	2
R0iRELxx in (3,11)	3
R0iRELxx = 4	4
R0iRELxx = 5	5
R0iRELxx in (6,12)	2
R0iRELxx in (7,13)	7
R0iRELxx = 8	8
R0iRELxx = 9	9
R0iRELxx = 99	-9

**PID2***wave i (i ≥ 1)*

	R0iPFXID
--	----------





**LONGITUDINAL LINK FILE**



**LINK - FIXED VARIABLES**

**COUNTRY**

R01CNTRY ≠ .			R01CNTRY
else	R02CNTRY ≠ .		R02CNTRY
	else	...	...
		R0x-1CNTRY ≠ .	R0xCNTRY

(x = last wave available)

**PID**

R01PFXID ≠ .			R01PFXID
else	R02PFXID ≠ .		R02PFXID
	else	...	...
		R0x-1PFXID ≠ .	R0xPFXID

(x = last wave available)

**BIRTHYY**

R01YEAR ≠ .,9999			R01YEAR
else	R02YEAR ≠ .,9999		R02YEAR
	else	...	...
		R0xYEAR ≠ .,9999	R0xYEAR
		else	-9

(x = last wave available)

**BIRTHMM**

R01YEAR ≠ .,9999	R01MONTH in (1, ..., 12)		R01MONT H
	else		-9
else	R02YEAR ≠ .,9999	R02MONTH in (1, ..., 12)	R02MONT H
		else	-9
	else	...	...
		R0xYEAR ≠ .,9999	R0xMONTH in (1,...,12)
			else
		else	-9

(x = last wave available)

**SEX**

R01SEX ≠ .,9			R01SEX
else	R02SEX ≠ .,9		R02SEX
	else	...	...
		R0xSEX ≠ .,9	R0xSEX
		else	-9

(x = last wave available)

**SAMPERS**

Country = 3					1
R0xSP = 1					1
R0xSP = 2					2
else	...				1
	else	R03SP = 1			1
		R03SP = 2			2
		D02RESID = 9			1
			R02MEM in (1,2,3,5,6,7)		1
		else	R01sampl = 1		1
			R01sampl = 2		2
			else		2

(x = last wave available)

**FIRSTINT**

R01FNRES in (11,12,13)			1
else	R02FNRES in (11,12,13)		2
	else	...	...
		R0xFNRES in (11,12,13)	x
		else	0

(x = last wave available)

**DESIGNWT**

D01SMST5 < 9999997			D01SMST5
else	D02SMST5 < 9999997		D02SMST5
	else	...	...
		D0xSMST5 < 9999997	D0xSMST5
		initial household weight for wave 1 available	initial household weight for wave 1
		else	-9

(x = last wave available)



**LINK - WAVE SPECIFIC VARIABLES  
- THE PERSON'S HOUSEHOLD**

**HIDi**

D0iHHID $\neq$ .	D0iHHID * 100 + D0iSPLIT
PRESID(i-1) = 11, 21, 22, 23	HID(i-1)
else	-8

**HSTATUSi**

HIDi = -8			-8
else	i = 1		3
	i = 2	country = 13	3
		D02RESID = 8	2
		D02RESID = 9	3
		D02RESID = .	-9
		else	1
	i = 3	country = 14	3
		D03RESID = 8	2
		D03RESID = 9	3
		D03RESID = .	-9
		else	1
	i $\geq$ 4	D0iRESID = 8	2
		D0iRESID = 9	3
		D0iRESID = .	-9
		else	1



			HRESID <sub>i</sub>
HSTATUS <sub>i</sub> in (1,2,3)	i=1	D01FNRES = 51	92
		D01FNRES = 52	91
		else	11
	i=2	D02RESID in (1,8,9)	11
		D02RESID = 2	21
		D02RESID = 3	22
		D02RESID = 4	49
		D02RESID = 5	23
		D02RESID = 6	31
		D02RESID = 7	61
		D02CONT = 1	11
		D02CONT = 2	D02NCON = 1
			D02NCON = 2
			D02NCON = 3
		D02NCON = 4	D02NWAD = 1
			D02NCNW = 1
			D02NCNW = 2
			D02NCNW = 3
			D02NCNW in (9, 10, 11, 12)
			D02NCNW = 99
			else
		D02NCON = 5	D02NWAD = 1
			D02NCNW = 1
			D02NCNW = 2
			D02NCNW = 3
			D02NCNW in (9, 10, 11, 12)
			D02NCNW = 99
		D02NCON = 6	D02TYPIN = 1
			D02TYPIN = 2
			D02TYPIN = 3
			D02TYPIN = 4
			D02TYPIN = 5
			D02TYPIN in (6,9)
		D02NCON = 7	D02NWAD = 1
			D02NCNW = 1
			D02NCNW = 2
			D02NCNW = 3
			D02NCNW in (9, 10, 11, 12)
			D02NCNW = 99
			else
		D02NCON = 8	31
		D02NCON in (9, 10, 11, 12)	11
		D02NCON = 99	93
		else	-9

**HRESID<sub>i</sub> (CONT.)**

i ≥ 3	D0iHSP in (2,9)		61
	D0iCONT = 2	D0iNCON = 1	91
		D0iNCON = 2	51
		D0iNCON = 3	92
		else	93
		D0iRESID in (1,8,9)	
	D0iRESID = 2		21
	D0iRESID = 3		22
	D0iRESID = 4	D0iTYPIN = 1	41
		D0iTYPIN = 2	42
		D0iTYPIN = 3	43
		D0iTYPIN = 4	44
		D0iTYPIN = 5	45
		D0iTYPIN in (6,9)	49
	D0iRESID = 5		23
	D0iRESID = 6		31
	D0iRESID = 7		61
	D0iCONT = 1		11
	else		-9
	else		-8

**HREGION<sub>i</sub>**

HRESID <sub>i</sub> in (11,21,22,23)	D0iNUTS3 ≠ 99999, 99997, XXXXX, XXX	D0iNUTS3
	else	-9
else		-8

Remark: if the household did not move and D0iNUTS3 is missing, the region from the previous wave is forwarded.

**HTRACE<sub>i</sub>**

$i = 1,2$		-8
HRESID <sub>i</sub> in (31,41 ... 49)	D0iTRACE in (1,2)	D0iTRACE
	else	-9
else		-8

**HFNRES<sub>i</sub>**

HRESID <sub>i</sub> in (11,21,22,23)	i = 1	D01FNRES in (11, ..., 34)	D01FNRES
		else	-9
	i = 2	D02NCNW = 9	31
		D02NCNW = 10	32
		D02NCNW = 11	33
		D02NCNW = 12	34
		D02NCON = 9	31
		D02NCON = 10	32
		D02NCON = 11	33
		D02NCON = 12	34
		D02FNRES in (11, ..., 34)	D02FNRES
		else	-9
	else	D0iNCON = 9	31
		D0iNCON = 10	32
		D0iNCON = 11	33
		D0iNCON = 12	34
		D0iFNRES in (11, ..., 34)	D0iFNRES
		else	-9
else			-8

**HSIZE<sub>i</sub>**

HRESID <sub>i</sub> in (11,21,22,23)	D0iHSIZE ≤ 96	D0iHSIZE
	D0iHSIZE = 99	-9
else		-8

**HMOUT<sub>i</sub>**

HSTATUS <sub>i</sub> = 1 and HRESID <sub>i</sub> in (11,21,22,23)	# { link-file records with same HID <sub>i</sub> as this person and HID <sub>i-1</sub> ≠ HID <sub>i</sub> and PRESID <sub>i-1</sub> in (11,12,13,21,22,23) and PRESID <sub>i</sub> in (21,22,23,29,31,40,90) }
HSTATUS <sub>i</sub> = 1 and HSIZE <sub>i</sub> = -9	-9
else	-8

**HMIN<sub>i</sub>**

HSTATUS <sub>i</sub> = 1 and HRESID <sub>i</sub> in (11,21,22,23)	# { link-file records with same HID <sub>i</sub> as this person and PRESID <sub>i</sub> in (12,21,22,23) }
HSTATUS <sub>i</sub> = 1 and HSIZE <sub>i</sub> = -9	-9
else	-8

**HBORNi**

HSTATUSi = 1 and HRESIDi in (11,21,22,23)	# { link-file records with same HIDi as this person and PRESIDi = 13 }
HSTATUSi = 1 and HSIZEi = -9	-9
else	-8

**HDIEDi**

HSTATUSi = 1 and HRESIDi in (11,21,22,23)	# { link-file records with same HIDi as this person and PRESIDi = 51 }
HSTATUSi = 1 and HSIZEi = -9	-9
else	-8

**HOMITi**

HSTATUSi = 1 and HRESIDi in (11,21,22,23)	# { link-file records with same HIDi as this person and PRESIDi = 11 and PLASTWi = 2 }
HSTATUSi = 1 and HSIZEi = -9	-9
else	-8

**LINK - WAVE SPECIFIC VARIABLES  
- THE PERSON**

## PRESIDi

HSTATUS <sub>i</sub> in (1,2,3)	i=1		R01RESI in (1,2,9)		11	
			else		-9	
	i>1	Person occurs in ONE household	R0iMEM in (1,6)	HID(i-1) ≠ -8 and HID <sub>i</sub> ≠ HID(i-1)	21	
				else	11	
			R0iMEM = 4		12	
			R0iMEM = 5		13	
			R0iMEM = 7		21	
			R0iMEM = 2, 8	R0iMOVE = 1,2,4	29	
				R0iMOVE = 3	40	
				R0iMOVE = 5	31	
				R0iMOVE = 6,9	90	
			R0iMEM = 3		51	
			R0iMEM = 9		-9	
			Person occurs in TWO household	R0iMEM (in the new household) in (1,6,7,9)	R0iMOVE (in the former household) = 1	21
					R0iMOVE (in the former household) = 2	22
					R0iMOVE (in the former household) = 4	23
		else			-9	
		else		-9		
		Person does NOT occur in ANY household		90		
		else				-8

**PTEMPi**

PRESIDi ≠ -8	R0iRESI = 1		11
	R0iRESI = 2	R0iTEMP = 1	21
		R0iTEMP = 2	22
		R0iTEMP = 3	23
		R0iTEMP = 4	24
		R0iTEMP = 5	31
		R0iTEMP = 6	32
		R0iTEMP = 7	33
		else	-9
	else		-9
else		-8	

**PLASTWi**

PRESIDi in (11,12,13,21,22,23)	i = 1		1
	i = 2	PLASTW1 ≠ -8 or COUNTRY = 13	1
		R02MEM = 6	2
		R02MEM = 7	3
		R02MEM = 4	5
		R02MEM = 5	6
		HSTATUS2 = 3	4
		else	-9
	i = 3	PLASTW2 ≠ -8 or COUNTRY = 14	1
		R03MEM = 6	2
		R03MEM = 7	3
		R03MEM = 4	5
		R03MEM = 5	6
		HSTATUS3 = 3	4
		else	-9
	i ≥ 4	PLASTWi-1 ≠ -8	1
		R0iMEM = 6	2
		R0iMEM = 7	3
		R0iMEM = 4	5
		R0iMEM = 5	6
		HSTATUSi = 3	4
		else	-9
	else		-8

**PIO\_YYi**

PLASTWi in (4,5,6)	R0iINy in (1992+i , 1993+i, 1994+i)	R0iINy
	else	-9
PRESIDi in (21,22,23,29,31,40,51,90)	R0iOUTy in (1992+i , 1993+i, 1994+i)	R0iOUTy
	else	-9
else		-8

**PIO\_MMi**

PIO_YYi = -8			-8
PIO_YYi = -9			-9
else	PLASTWi in (4,5,6)	R0iINM in (1, ... , 12)	R0iINM
		else	-9
	PRESIDi in (21,22,23,29,31,40,51,90)	R0iOUTM in (1, ... , 12)	R0iOUTM
		else	-9
	else		-8

**PTRACEi**

i in (1,2)		-8
PRESIDi in (31, 40)	R0iTRACE in (1,2)	R0iTRACE
	else	-9
else		-8

**PWSTATi**

PRESIDi in (11,12,13,21,22,23)	HFNRESi in (11,12,13)	1
	else	2
PRESIDi = 29		2
PRESIDi in (31,40,51,90)		3
PRESIDi = -9		-9
PRESIDi = -8		-8

**PSAMSTAi**

HSTATUSi in (1,2,3) and SAMPERS = 1	PRESIDi in (11,12,13)	1
	PRESIDi in (21,22,23)	2
	PRESIDi in (31,40,51)	3
	else	-9
else		-8



**PELIGi**

PRESIDi in (11,12,13,21,22,23)	i = 1	R01REST in (1,2,3)	1
		R01REST in (4,5)	2
		1994 - BIRTHYY ≥ 16	1
		else	-9
	i ≥ 2	R0iREST = 1	1
		R0iREST =2	2
		1993+i - BIRTHYY ≥ 16	1
		else	-9
else			-8

**PINTIDi**

i = 1			-8
i $\geq$ 2	HFNRESi in (11,12,13)	D0i-1INTID = ., 99997, 99999 or D0iINTID = ., 99997, 99999	-9
		D0i-1INTID = D0iINTID	1
		else	2
	else		-8

**PFNRESi**

PRESIDi in (11,12,13,21,22,23) and PELIGi = 1	R0iFNRES in (11, ..., 34)	R0iFNRES
	else	-9
else		-8