Background and Planning for Incorporating an Event History Calendar into the Re-engineered SIPP.

Jason M. Fields, Housing and Household Economic Statistics Division, US Census Bureau Mario Callegaro, Knowledge Networks

The Unique Value of SIPP

- To provide a nationally representative sample for evaluating:
 - annual and sub-annual dynamics of income
 - movements into and out of government transfer programs
 - family and social context of individuals and households
 - interactions between these items

Purpose of SIPP

- Recommendation 2-1: The two primary goals for SIPP should be to provide improved information on the distribution of income and other economic resources for people and families and on eligibility for and participation in government assistance programs. Within these two goals, most attention should be paid to improving the information for people who are economically at risk. A third important but subordinate goal is for SIPP to have a capability to respond to current policy needs for data in topical areas that are related to the core subjects of SIPP.
 - The Future of the Survey of Income and Program Participation, NAS, 1993

Current Uses of SIPP

- Department of Agriculture
 - Model food stamp eligibility and measure food stamp participation
- Department of Health and Human Services
 - Measure the economic effect of disabling conditions on children and adults, and determine "triggers" that cause people to go on or to go off programs.
- Social Security Administration
 - Model SSI benefits, and the restructuring of Social Security such as age threshold changes.
- Congressional Budget Office and Congressional Research
 Service
 - Use micro-simulation to measure participation in major government programs

Reengineering Goals

Cost reduction

- Use of annual data collection
- Focused content selection

- Improved accuracy
- Improve integration across SIPP concepts
- Focus on improving recall and responses
- Improved timeliness and accessibility
- Improved documentation
- Improved processing system

- Improved relevance
- Stakeholder input
- Explore strengths from ACS and administrative records

Stakeholders and Content Review

- Responding users indicated a broad need for most of SIPP core content. About 40 stakeholders completed matrix
- Select areas were added based on lost topical module content.
- Held five subject area meetings to discuss specific content (*Health, General income/Government programs, Assets and wealth, Labor force, Demographics and other items*)

Timeline of SIPP/DEWS/Re-engineered SIPP

2005

December –

 Direct conversion of 2004 Panel instrument to BLAISE instrument and SAS processing system halted.

2006

January through May

- Beginning of interagency discussions on the future plans for SIPP.
- CEPR "Save the SIPP Letter" Existing data alternatives developed.

June through December –

- Brookings Workshop presentation of alternatives concerns over data gap / administrative records / existing data options.
- August open meeting presentation of event history calendar instrument plans.
- December open meeting more details on content and structure of the program.

2007

January through May –

- CNSTAT Panel presentation
- Announce plans to continue 2004 panel with reduced sample
- Topical content meetings held with stakeholders

June to Present –

Appropriations proposed to provide funding to continue SIPP in 2008.

Existing Survey Hybrid Options

Current Population Survey

- Overlap from year to year about 40%.
- Administrative records
- Modelling subannual data
- Supplement with targeted topic reinterviews

American Community Survey

- Large sample options
 - Option 1 sample from single year use this data as the initial interview and follow-up with annual mailout reinterviews
 - Option 2: sample from pooled 3 year samples (improved oversamples) and follow-up with initial interview and reinterview
- Administrative records
- Modelling subannual data
- Supplement with targeted topic reinterviews

Event History Calendars

- "...the use of event history calendars has considerable potential in assisting respondents to reconstruct their personal pasts more completely and accurately, maximizing the quality of retrospective reports."
 - Dr. Robert BelliUniversity of Nebraska





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25	26	27	28			



What is an event history calendar (EHC)?

- An EHC interview is centered around a customized calendar that shows the reference period under investigation
- •The calendar contains timelines for different domains, for example, residence history, household composition, work history, and other domains relevant to the topic of study
- •Landmark events, such as holidays and birthdays can be used to aid the respondent's memory

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14	15	16	17	18	19	20
21	22	25	24	25	26	27
28	29	30	31			

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- 11	12	13	14	. 15	16	16
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25	26	27	28	29	38	_

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A few other surveys with Event History Calendars

- Panel Study of Income Dynamics Univ. of Michigan
- National Survey of Family Growth CDC/NCHS
- National Survey of Adolescent Health (AddHealth) Univ. of North Carolina
- Los Angeles Family and Neighborhood Survey UCLA
- English Longitudinal Study of Ageing NatCen UK, University College London and the Institute for Fiscal Studies.
- Health and Retirement Study Univ. Michigan (Nat. Inst. Ageing)
- 1998 National Retrospective Demographic Survey (EDER) Mexico (INEGI)

Origin: Balán et al. study (1969)

- Reaction to the problems of life history data collection:
 - Focus on few cases: representativeness
 - Lengthy life histories
 - Problematic data collection
 - Difficulty to process and analyze statistically the data
- Example: "The Polish Peasant" by Thomas and Znaniecki (1958)

Men in a Developing Society

Geographic and Social Mobility in Monterrey, Mexico

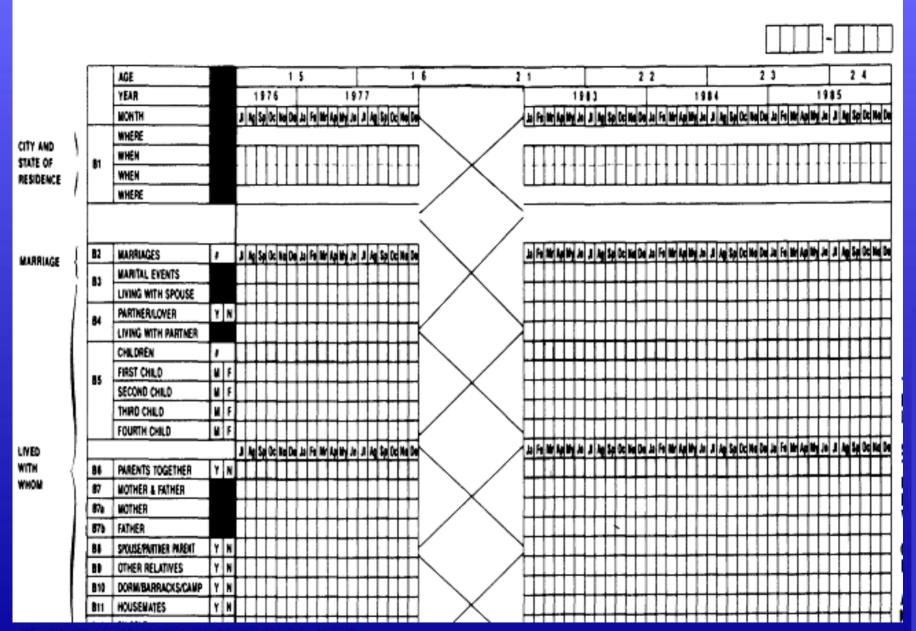
JORGE BALAN
HARLEY L. BROWNING
ELIZABETH JELIN
with the assistance of Waltraut Feindt

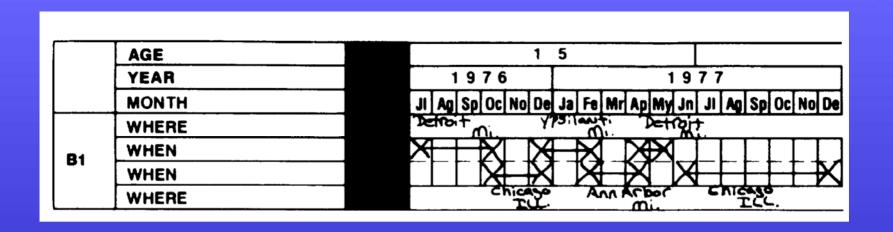
PUBLISHED FOR THE Institute of Latin American Studies
BY THE UNIVERSITY OF TEXAS PRESS, AUSTIN & LONDON

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		MI	gration Histo	l v	Size				1		i .	" OIK THEOL	Ente	rprise			
Year	Age	Name of place	State	Rural	Town	City	Educational History	Family History	Health	Name of the occupation	Description of duties	Position and dependent personnel	Type of Industry	No. of persons employed	Relatives	Income (in pesos)	Year
1940	10	San Isidro	Coahuila	х			primaria 5th grade			farm worker	helps his father	family help	agricul- ture	3	yes	none	1940
41	11	"	"	"			primaria 6th grade			"	"	"	"	"	"	"	41
42	12	Monterrey (colonia Lomas)	Nuevo Leon			×	commerce 1st grade			NOT	EMPLOYED						42
43	13					"	commerce 2nd grade			4.6	66						43
44	14	44	"		i	"	commerce 3rd grade			"	"						44
45	15	Mexico City	Distrito Federal			"	not in school			messenger	office boy	employee 0	railroad office	350	no	300 monthly	45
46	16	" .	"			"	"			"		"	41	"	"	"	46
47	17	"	"			"	"			"	**	"	41	"	"	"	47
48	18	Monterrey (colonia Regina)	Nuevo Leon			"	"			UNEMPLOYED	FOR EIGHT	MONTHS					48
49	19	"	"			"	"	courtship		clerk	types letters	employee 0	mattress factory	50	no	150 weekly	49
1950	20	"	**			"	"	"		"		44	"	"	"	41	1950
51	21	(colonia Modelo)	"			"	"	marriage		44	44	"	"	"	"	180 weekly	51
52	22	44	"			"	"	first child born,		purchasing agent	buys all materials	employee 2	"	70	"	250 weekly	52
5 3	23	**	"			"	"			. "	"	"	"	"	"	"	53
54	24	"	"	_		"	"	second child born, female		owner of small factory	manager	employer 5	plastic toy factory	6	yes	800 monthly	54
55	25	. "	"			"	46	third child born,	died first month			"	"	"	"	"	55
56	26	"	46			-"	"	fourth child born, male		66	· ·	"	"	"	"	"	56
57	27	и	"			"	"					"	"	"	"	"	57
5 8	28	"	**			"		fifth child born, female		• •		employer 3	"	4	"	business losses about 1500 monthle	•
	Н	elnina Yo	u Make i	Info	orm	ed	Decisions									10	

Freedman et al. 1988

- Most cited paper across all disciplines
- Acknowledges Balán and Blum studies
- Month as unit of analysis
- Calendar can handle categorical, ordinal and interval variables
- Very detailed explanation on how to record responses
- Domains by row and years (month) by column





									1 9	8	3										1 9	8 4	1				
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63	LIVING WITH SPOUSE						X			Ш													Ш				
	CHILDREN	#	1																								
B5	FIRST CHILD	М	X														X										
65	SECOND CHILD	М	F																								\Box
	THIRD CHILD	М	F																								
	FOURTH CHILD	M	F																								
B6	PARENTS TOGETHER	\mathbb{X}	N																								
B7	MOTHER & FATHER					X	П													X							

SIPP calendar aided interview test 1989 to 1991

NOTE: The SIPP survey studies the ci Whenever a change does occur, howe by you or another household member	ver, it is ex	tremely in	nportant	hat we k	now exac	thy in whi	ch month	it happen	ed. This o	alendar r	ecords th	e answer	s given in		1. R.O.		num
Person number (or name)	1988			1989				,				,		,		1990	7
	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB
Respondent person number																	
Address change?						ł]	
Number of persons in household		1	}													j	1
Marital status															ĺ		
Employer 1:		ļ	İ										ļ	İ	{		1
Wages/Salary																	-
Employer 2:																	-
Wages/Salary	1											1	1	1]	1
Self-employed (income)		<u> </u>															L
Health Insurance coverage: Private																	
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Medicare		l	İ	İ													
Programs: Workers' compensation																	
Unemployment payments			l											ł		1	1
Child support																	
Food stamps			ļ														1
SSI						}							1				1
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General assistance		l	1														1
WIC			}										1				1
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Pensions/Retirement: Social Security Retirement																	
Private pension													l				1
State/Local govt. pension			1			1											
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time 51PP-9030 U.S. DEPARTMENT OF COMMERCE 9 13 90: BUREAU OF THE CENSUS
EVENT CALENDAR
EVENT CALCIDAN
INCOME SOURCE LIST
Social Security
U.S. Government Raikuad Retirement pay
Federal Supplemental Security Income (\$\$1)
State Supplemental Security Income
(State administered SSI only)
State unemployment compensation Supplemental Unemployment Benefits
Supplemental Unemployment Benefits Other unemployment compensation
(Trade Adjustment Act benefits, strike pay, other)
Veterans compensation or pensions
Black lung payments
Workers' compensation
State temporary sickness or disability benefits
Employer or union temporary sickness policy
Payments from a sickness, accident, or disability
insurance pokcy purchased on your own
Aid to Families with Dependent Children (AFDC, ADC)
General assistance or General relief
ndian, Cuban, or Refugee Assistance
Foster child care payments
Other welfare
WIC (Women, Infants, and Children Nutrition Program)
Food stamps
Child support payments Alimony payments
Pension from company or union
Federal Civil Service or other Federal civilian
employee pensions
J.S. Military retirement pay
National Guard or Reserve Forces retirement
State government pensions
ocal government pensions
ncome from paid-up-life insurance policies or annuities
Estates and trusts
Other payments for retirement, disability, or survivor

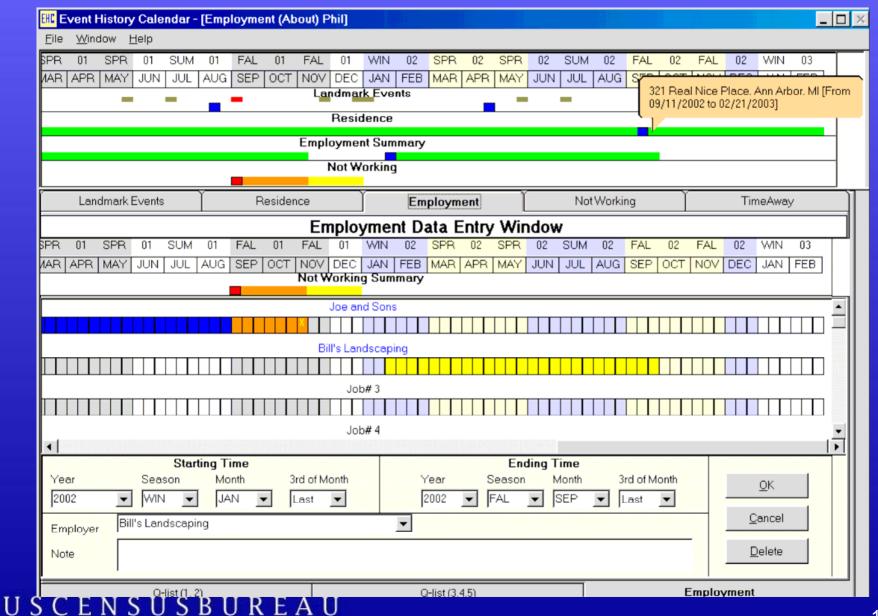
Other VA educational assistance Income assistance from a Charitable group Money from relatives or friends Lump sum payments Income from roomers or boarders National Guard or Reserve pay Incidental or casual earnings

Other cash income not included elsewhere

U.S. DEPARTMENT OF COMMERC

SIPP-9030

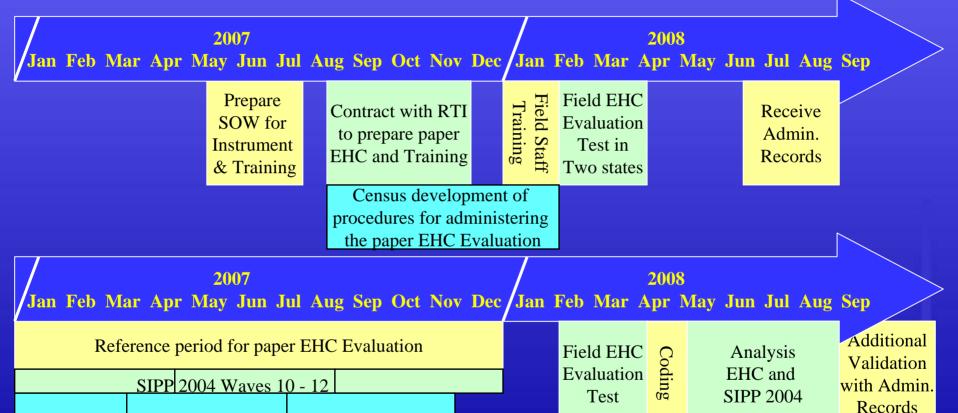
PSID 2003 EHC instrument



Analysis and Evaluation of EHC Instruments

- Reliability High levels of agreement with previously collected questionnaire based data.
- Domains
 - Marriage, births, residential moves, school enrollment, labor force (all showed good agreement)
 - Concerns AFDC/Food Stamps
- Mode Phone and in-person almost same degree of consistency.
- Validation Limited record check studies designed into the first SIPP field test evaluation.
- Reduction of seam bias

2008 EHC Evaluation Test



Administrative Records in two states to validate SIPP - EHC

Page 1 – 2008 Field Test Instrument – DRAFT –

	TER LINE # OF HH Member: Field Rep Code: ECK ONE: Self response Proxy IF PROXY, ENTER LINE # OF PROXY						Y CALEN	IDAR	Census Bure only by indi	eau is confide viduals who a	ntial by law (1	itle 13, U.S. (e to protect to	nur report to the Code). It may b the confidential ses.	be seen
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ENTER DESCRIPTION														
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B School Enrollment														
C Labor Force		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	
#1 Employer Occupation CHECK ONE: DEmployer Delf-Employed Delther Avg. hrs/week														
#2 Employer Occupation CHECK ONE: DEmployer Delf-Employed Delther Avg. hrs/week							A							
#3 Employer Occupation CHECK ONE: DEMployer D Self-Employed D Other Avg. hrs/week														
#4 Employer Occupation CHECK ONE: DEmployer Delf-Employed Delther Avg. hrs/week														
#5 Employer Occupation CHECK ONE: DEmployer O Self-Employed Other Avg. hrs/week														
D Unpaid Labor														
E Employment Summary														
F Workers Insurance Programs Disability		s	\$	\$	\$	\$	\$	s	\$	s	\$	\$	s	
Unemployment		s	s	s	s	s	s	s	s	s	s	s	s	
Workers compensation		s	s	s	s	s	s	s	s	s	s	s	s	

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EVENT HISTORY CALENDAR_Draft#3_V1.7.Doc

Page 2 – 2008 Field Test Instrument – DRAFT –

G6. RECORD ANSWER(S): [] Employer/Union [] Government [] Other		GS	P. RECORD ANS [] Medicare [] Medicaid, Monther gover [] VA/Military [] Something e	edical Assista nment assista	nce, CHIP, ince health plan	[]Em	ORD ANSWER ployer/Union vernment er	e(S):		G17. RECORD AN [] Medicare [] Medicaid, Nother gove [] VA/Military [] Something	Medical Assista emment assista	ance, CHIP, ance health plan		
ce	Started before Jan 07	W Jan	INTER Feb	Mar	SPRING April	May	June	SUMMER July	Aug	Sept	FALL Oct	Nov	WINTER Dec	2
mployer-sponsored coverage?														
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Directly-purchased coverage?														
Other health insurance?														

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Supplemental Security Income (SSI)? Person number(s) of beneficiary	\$	s	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	Y N
Social Security Disability Insurance (SSDI)? Person number(s) of beneficiary	\$	s	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	Y N

EVENT HISTORY CALENDAR_Draft#3_V1.7.Doc

Health Insurance

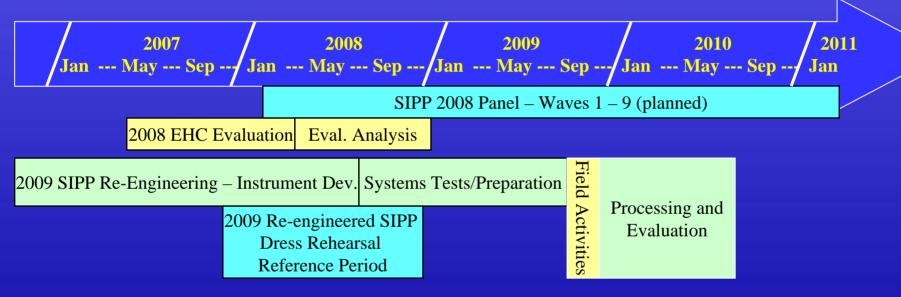
Re-engineered SIPP Survey

- Survey Instrument
 - Annual administration
 - Follow movers
 - Limited feedback
- Calendar
 - Improvement on other designs by integrating more closely with Blaise, the instrument programming language.
- Simultaneous development of processing and instrument

	Tiont
	Coverage
	Demographics
	Calendar Universe Screeners
	Type 2 Roster/Info
E	Landmark Events
н	Residence History
С	Marriage and Cohabitation
C A L E N	Presence of Mother and Father
A L	School Enrollment
E	Labor Force (emp/unemp/leave)
D	Wkrs Cmp/Disab/Unemp Cmp
A R	Soc. Welfare and Other Progs.
ĸ	Health Insurance Coverage
	Commuting, Work Schedule, Fertility, Child Care
	Annual Programs – Taxes – Lump Sum – Social Insurance – Child Support
	Assets / Balances
	Health (Insurance, Expenditures, Disability)
	Adult Well-Being, Child Well-Being, Food Sufficiency
	Wrap-up and Missing Follow-up visit/call Info
	Back

Front

2009 Re-engineered SIPP Dress Rehearsal



Event History Calendar Conference

- "The Use of Event History Calendar Methods in Panel Surveys" December 5-6, 2007 at the US Census Bureau
- Agenda
 - Examining the Impact of Event History Calendar Interviewing on Data Quality from Disadvantaged Respondents - Belli
 - EHC in PSID
 - EHC in NLSY97
 - EHC in Netherlands
 - EHC in LA Family and Neighborhood Survey
 - EHC in British Panel survey
 - Seam Bias in SIPP

Assessing Users' Needs

U.S. Census Bureau

Survey of Income and Program Participation

Introduction to SIPP

SIPP Survey Content

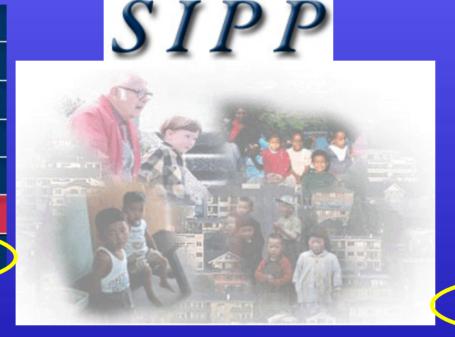
Technical Information

Using & Linking Files

SIPP Publications

Access SIPP Data

Access SIPP Synthetic Data





re-engineered SIPP

URL: http://www.sipp.census.gov/sipp/dews

Source: U.S. Census Bureau, Demographics Survey Division, Survey of Income and Program Participation branch

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