



ABB ✓

REF: RAJENDRA SINGH. Contrata a honorarios sobre la base de suma alzada. Instituto Nacional de Estadísticas.

RESOLUCIÓN EXENTA N° 1261

SANTIAGO, 05 SET. 2013

VISTOS: Lo dispuesto en los arts. 3° y 4° letra j) de la Ley N° 17.374; en el art. 11° del D.F.L. N° 29/2004; en los arts. 2°, 3° letras a), h), j) y 22° del Decreto de Economía N° 1.062/70; arts. 2° y 3° letras a), b) y c) del Decreto N° 98, de 1991, del Ministerio de Hacienda; la Ley de Presupuesto N° 20.641; en el art. 33° del D.L. N° 249/74; la Resolución N° 1600, de 2008, de la Contraloría General de la República; y

CONSIDERANDO:

Que, el Instituto Nacional de Estadísticas se encuentra desarrollando el Programa Censal.

Que, para estos efectos, se requiere contratar a honorarios sobre la base de suma alzada a un Experto, en este caso de nacionalidad estadounidense, para que realice labores que no pueden ser ejecutadas con la dotación de personal existente, y que por la naturaleza de sus funciones, no puede ser asimilado a un grado de la E.U.S.

Que, el Instituto dispone de los fondos para el pago de honorarios que se pactan, en el Presupuesto para el año 2013.

Que, las funciones para las que se contrata a dicho Experto son de carácter esporádico en este Instituto.

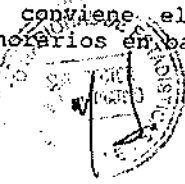
Que, este contrato cumple con los requisitos establecidos en el Decreto N° 98, de 1991, de Hacienda.

RESUELVO:

1.- APRUÉBASE el siguiente contrato de prestación de servicios:

DE PRESTACION DE SERVICIOS A HONORARIOS
EN BASE A SUMA ALZADA

En SANTIAGO, a 02 de Septiembre de 2013, entre el INSTITUTO NACIONAL DE ESTADÍSTICAS, representado por su Director Nacional (TP), don JUAN EDUARDO COEYMANS AVARIA, domiciliado en Av. Bulnes N° 418, Santiago, por una parte y por la otra don (a) RAJENDRA SINGH, pasaporte N°473198743, de nacionalidad Estadunidense, de paso en Chile, domiciliado para estos efectos en Av. Bulnes N° 418, Santiago, se conviene el siguiente contrato de prestación de servicios a honorarios en base a suma alzada.



PRIMERO.- El Instituto Nacional de Estadísticas se encuentra desarrollando el Programa Censal, y para estos efectos contrata a don **RAJENDRA SINGH**, a contar del **02 al 13 de Septiembre de 2013**, quien en su calidad de consultor desarrollará un análisis del proceso y datos del CENSO 2012, donde proveerá recomendaciones al INE, en el uso de datos y eventualmente ajustes al CENSO. Esta consultoría estará compuesta por los siguientes ítems:

Consultoría: Recolección de Información

1. El consultor elaborará una lista detallada de documentos e información que el INE debe proveer para el Desarrollo del trabajo.
2. El consultor recibirá completa información acerca del proceso y resultados del CENSO 2012 de parte de los funcionarios del INE.
3. El consultor analizará los datos e información y determinará los pasos a seguir.
4. El consultor deberá proveer un informe semanal que incluya lo siguiente:
 1. Actividades
 2. Información recolectada
 3. Plan General de las siguientes actividades
 4. Reuniones

Dichos informes se presentarán al Director Nacional y al Jefe de CENSO.

SEGUNDO.- Por la prestación convenida el Instituto pagará a don (a) **RAJENDRA SINGH** la suma total bruta de US\$ 17.322.- (Diecisiete mil trescientos veintidós dólares), la cual será cancelada de la siguiente forma:

Una cuota de US\$ 4.331.- (Cuatro mil trescientos treinta y un dólares), que corresponderá al 25% del honorario bruto, cuyo pago se efectuará una vez recepcionado conforme el primer informe semanal indicado en la cláusula precedente.

Una segunda y última cuota de de US\$ 12.991.- (Doce mil novecientos noventa y un dólares), correspondiente al 75% del honorario bruto, cuyo pago se efectuará una vez recepcionado conforme el segundo informe semanal.

El INE retendrá del monto bruto señalado los impuestos correspondientes, conforme a la normativa nacional vigente.

Los informes semanales entregados deberán contener, la información detallada de la consultoría expresada en la cláusula primera del presente contrato de prestación de servicios.

TERCERO.- Corresponderá al Director Nacional, velar porque el contratado cumpla fielmente con las obligaciones contraídas en virtud del presente contrato, y, especialmente, con la de emitir los informes exigidos.

CUARTO.- El contratado, no podrá divulgar los datos, antecedentes y hechos que se refieren a personas o entidades determinadas de que se hayan tomado conocimiento en el desempeño de sus actividades (Secreto Estadístico). Su incumplimiento hará incurrir al contratado en el delito previsto y penado por el artículo 247° del Código Penal, esto es reclusión menor en su grado mínimo a medio (de 61 días a 3 años) y multa de 6 a 10 UTM.



DEPARTAMENTO DE GESTIÓN DE PERSONAS
Subdepartamento de Administración de Personal y Remuneraciones

REF: **RAJENDRA SINGH**. Contrata a honorarios sobre la base de suma alzada. Instituto Nacional de Estadísticas.

QUINTO: El contratado se compromete a utilizar de forma absolutamente reservada la información relativa a la consultoría, de la cual pueda tener conocimiento en el ejercicio de sus funciones, por lo que no podrá publicarla en ningún caso, ni reproducirla, fotocopiarla, o difundirla por ningún medio, verbal u escrito, ni menos de forma anticipada a su difusión, salvo en los casos en que se encuentre expresamente autorizado por la Autoridad Competente y responsabilizándose de que con ello no se producirá una divulgación de dicha información, no amparada por los términos de esta cláusula.

SEXTO.- Se deja constancia que tal como lo expresa el contratado a través de su declaración jurada, éste no se encuentra afecto a ninguna de las inhabilidades establecidas en el artículo 54 del DFL-1-19653, que fija el Texto Refundido, Coordinado y Sistematizado de la Ley 18.575, Orgánica Constitucional de Bases Generales de la Administración del Estado, como tampoco a las inhabilidades especiales a las cuales se sujetan los funcionarios del Instituto Nacional de Estadísticas.

SÉPTIMO.- Al contratado se le aplicarán las inhabilidades e incompatibilidades reguladas por los arts. 54 y 55 del DFL-1-19653, que fija el Texto Refundido, Coordinado y Sistematizado de la Ley 18.575, Orgánica Constitucional de Bases Generales de la Administración del Estado, declarando expresamente no encontrarse afectado por ninguna de ellas, y que pasa a formar parte integrante del presente convenio.

OCTAVO.- El Servicio podrá poner término anticipado al convenio sin expresión de causa, dando aviso personal a la otra parte.

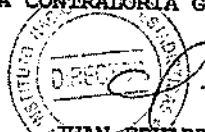
NOVENO.- Para todos los efectos legales que irrogue el presente convenio, las partes fijan su domicilio en la ciudad de Santiago.

DÉCIMO.- El presente contrato se firma en dos ejemplares de igual tenor y data quedando uno en poder de cada parte.

2.- Los antecedentes necesarios para esta contratación constan en los documentos que se adjuntan.

3.- **IMPÚTESE** el gasto que demanda la presente resolución al Instituto Nacional de Estadísticas, para el año 2013 al Subtítulo 24, Ítem 03, Asignación 495 "Programa Censal".

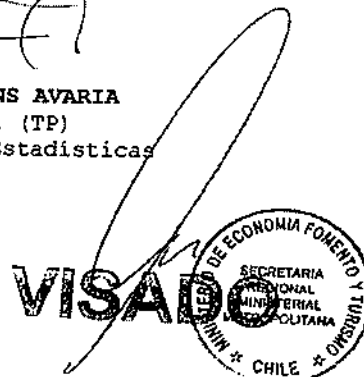
ANÓTESE, COMUNÍQUESE, REFRÉNDESE Y REMÍTASE ESTA RESOLUCIÓN Y ANTECEDENTES A LA CONTRALORÍA GENERAL DE LA REPÚBLICA.



JUAN EDUARDO COEYMANS AVARIA
Director Nacional (TP)
Instituto Nacional de Estadísticas



Adjunta:
- Declaración de la contratación.
- Contrato firmado por el interesado
- Declaración jurada firmada por el interesado
- Pasaporte
- Certificado de Experticia
- Curriculum Vitae





Instituto Nacional de Estadísticas - Chile

**CONTRATO DE PRESTACION DE SERVICIOS A HONORARIOS
EN BASE A SUMA ALZADA**

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PRIMERO.- El Instituto Nacional de Estadísticas se encuentra desarrollando el Programa Censal, y para estos efectos contrata a don RAJENDRA SINGH, a contar del 02 al 13 de Septiembre de 2013, quien en su calidad de consultor, desarrollará un análisis del proceso y datos del CENSO 2012, donde proveerá recomendaciones al INE, en el uso de datos y eventualmente ajustes al CENSO. Esta consultoría estará compuesta por los siguientes ítems:

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Los informes semanales entregados deberán contener, la información detallada de la consultoría expresada en la cláusula primera del presente contrato de prestación de servicios.

TERCERO.- Corresponderá al Director Nacional, velar porque el contratado cumpla fielmente con las obligaciones contraídas en virtud del presente contrato, y, especialmente, con la de emitir los informes exigidos.

CUARTO.- El contratado, no podrá divulgar los datos, antecedentes y hechos que se refieren a personas o entidades determinadas de que se hayan tomado conocimiento en el desempeño de sus actividades (Secreto Estadístico). Su incumplimiento hará incurrir al contratado en el delito previsto y penado por el artículo 247° del Código Penal, esto es reclusión menor en su grado mínimo a medio (de 61 días a 3 años) y multa de 6 a 10 UTM.

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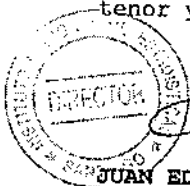
SEXTO.- Se deja constancia que tal como lo expresa el contratado a través de su declaración jurada, éste no se encuentra afecto a ninguna de las inhabilidades establecidas en el artículo 54 del DFL-1-19653, que fija el Texto Refundido, Coordinado y Sistematizado de la Ley 18.575, Orgánica Constitucional de Bases Generales de la Administración del Estado, como tampoco a las inhabilidades especiales a las cuales se sujetan los funcionarios del Instituto Nacional de Estadísticas.

SEPTIMO.- Al contratado se le aplicarán las inhabilidades e incompatibilidades reguladas por los arts. 54 y 55 del DFL-1-19653, que fija el Texto Refundido, Coordinado y Sistematizado de la Ley 18.575, Orgánica Constitucional de Bases Generales de la Administración del Estado, declarando expresamente no encontrarse afectado por ninguna de ellas, y que pasa a formar parte integrante del presente convenio.

OCTAVO.- El Servicio podrá poner término anticipado al convenio sin expresión de causa, dando aviso personal a la otra parte.

NOVENO.- Para todos los efectos legales que irroque el presente convenio, las partes fijan su domicilio en la ciudad de Santiago.

DECIMO.- El presente contrato se firma en dos ejemplares de igual tenor y data quedando uno en poder de cada parte.



[Handwritten signature]
JUAN EDUARDO COEYMANS AVARIA
Director Nacional (TP)
Instituto Nacional de Estadísticas

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RAJENDRA SINGH
Pasaporte N°473198743



SUBDIRECCIÓN ADMINISTRATIVA
 Depto. de Gestión de Personas
 Subdepto. de Administración de Personal

DECLARACIÓN JURADA SIMPLE
 (No requiere autorización notarial)

SRES,
 INSTITUTO NACIONAL DE ESTADÍSTICAS
 Presente.-

Fecha, 02 de Sept. De 2013

Nombres	RAJENDRA
Apellidos	SINGH
Cédula de Identidad	PASAPORTE n° 473198743
Estado Civil	Married
Profesión u Oficio	Statistician

Para la Ley N° 20.641 de Presupuesto para el Sector Público.
 Año 2013, Declaro que presto servicios en las siguientes reparticiones públicas

Nombre de la Repartición Pública	Calidad Jurídica (planta/contrata/honorarios)	Remuneración (indicar grado o remuneración bruta)	Labores contratadas	Duración

Asimismo, declaro que tengo contratos vigentes con proveedores o contratistas y/o con instituciones privadas que tienen convenios para ejecución de proyectos o se les hayan otorgados transferencias por esta repartición pública.

Individualización del contrato	Objeto del contrato	Duración

Por otra parte, conforme lo dispone el artículo 55 del DFL 1-19.635 que fija el Texto Refundido, Coordinado y Sistematizado de la Ley 18.575 Orgánica Constitucional de Bases Generales de la Administración del Estado, declaro que no me encuentro afecto a ninguna de las inhabilidades establecidas en el artículo 54° del mismo cuerpo legal; así mismo declaro no encontrarme afecto (a) a ninguna de las inhabilidades establecidas en el artículo 78° del Decreto de Economía N° 1062, de 1970, que contiene el Reglamento del Personal del Instituto Nacional de Estadísticas, que a continuación pasan a expresarse:

a) Patrocinar, asesorar o participar, por sí o a través de terceros, en la ejecución de trabajos, estudios o investigaciones para instituciones, privadas nacionales, extranjeras o internacionales, relacionadas directa o indirectamente con las funciones del Instituto en los cuales se utilicen antecedentes, estudios o trabajos elaborados en él, cuya publicación no haya sido autorizada por el Director Nacional del Servicio.

b) Tener vigente o suscribir, por sí o por terceros, contratos o cauciones ascendentes a doscientas unidades tributarias mensuales o más, con esta repartición pública.

Tener litigios pendientes con esta Institución, a menos que refieran al ejercicio de derechos propios, de su cónyuge, hijos, adoptados o parientes hasta el tercer grado consanguinidad y segundo de afinidad inclusive.

Igual prohibición regirá respecto de los directores, administradores, representantes y socios titulares del diez por ciento o más de los derechos de cualquier clase de sociedad, cuando ésta tenga contratos o cauciones vigentes ascendentes a doscientas unidades tributarias mensuales o más litigios pendientes, con este organismo público.

c) Tener la calidad de cónyuge, hijos, adoptados o parientes hasta el tercer grado de consanguinidad y segundo de afinidad inclusive respecto de las autoridades y de los funcionarios directivos, hasta el nivel de jefe de departamento o su equivalente, inclusive de este organismo público.

d) Estar condenado por crimen o simple delito.

Finalmente, declaro bajo juramento que estos antecedentes corresponden a la realidad.

R.P. Singh
 FIRMO

RAJENDRA P SINGH, PH.D.
5021 Cannon Bluff Drive, Woodbridge, VA 22192
Telephone: (703) 590-4429; Email: rsingh40@yahoo.com
[- 703 -590 -4429

EDUCATION

Ph.D. (Statistics), Case Western Reserve University, Cleveland, Ohio, U.S.A., 1973
M.S. (Statistics), Case Western Reserve University, Cleveland, Ohio, U.S.A., 1970

PROFESSIONAL EXPERIENCE

2009 – 2012 Statistical Consultant
2002 – 2006 Chief, Decennial Statistical Studies Division, U.S. Bureau of the Census, U.S. Department of Commerce
1998 – 2002 Assistant Division Chief, Decennial Statistical Studies Division, U.S. Bureau of Census, U.S. Department of Commerce
1993 – 1998 Chief Coverage Research Staff, Statistical Studies Research Division, U.S. Bureau of the Census, U.S. Department of Commerce
1985 – 1993 Chief, Survey of Income and Program Participation Branch, Statistical Methods Division, U.S. Bureau of the Census, U.S. Department of Commerce
1981 – 1985 Chief, Cross-sectional Surveys Branch, Statistical Methods Division, U.S. Bureau of the Census, Department of Commerce
1979 – 1981 Section Chief, Current Population Survey Branch, Statistical Methods Division, U.S. Bureau of the Census, Department of Commerce
1977 – 1979 Section Chief, Census Operations Branch, Statistical Methods Division, U.S. Bureau of the Census, Department of Commerce

Statistical Consultant (2009 – 2013)

United Nations Population Fund (UNFPA), Zimbabwe (2012-2013). As a consultant to the UNFPA, provided technical assistance to the Zimbabwe Statistical Office (ZIMSTAT) on designing and implementing their post enumeration survey (PES) to evaluate Zimbabwe 2012 census. The consultation covered all the aspects of the survey which included developing PES objectives, questionnaire design, sample design, data collection and matching operations, quality assurance, and coverage errors and their variance estimation methodologies. Also, trained ZIMSTAT staff on PES methodology. In addition, documented ZIMSTAT PES methodology and the coverage error evaluation results of their 2012 census.

Kosovo Agency of Statistics (2012). As an ICON- Institute Public Sector GmbH Germany consultant, provided technical assistance to the Kosovo Agency of

Statistics (KAS) on their Post-Census Evaluation Survey (PES). The consultation included to develop, finalize and implement PES estimation, variance estimation, and content error evaluation methodologies. Also analyze the PES results and document them in a written report. In addition, train the KAS department in development of methodologies and in all calculation process.

Kenyan National Bureau of Statistics (2009 – 2012). As a U.S. Census Bureau contractor, provided statistical assistance to Kenya National Bureau of Statistics in all aspect of their Post-Census Evaluation Survey (PES) for the 2009 Kenyan Population Census. The consultation included assistance with survey design, sample design, statistical estimation including imputation, content framework, questionnaire design, survey operations and procedures, data analysis, data products and report plans. The consultation also included evaluation of coverage errors and content errors.

Statistical Expert to United Nation (2009 – 2010). Participated as a statistical consultant in the United Nation's Workshop on Post-Census Evaluation Survey (PES) in Amman, Jordan where representatives from 15 Arabic countries attended the workshop. Discussed design and statistical estimation methodology for the PES and the evaluation of coverage errors and content errors.

Participated as a statistical consultant in the United Nation's Workshop on Post-Census Evaluation Survey (PES) in Bangkok, Thailand where representatives from 19 Asian countries attended the workshop. Discussed design and statistical estimation methodology for the PES and the evaluation of coverage errors and content errors.

Participated as a statistical consultant in the United Nation's Workshop on Post-Census Evaluation Survey (PES) in Asuncion, Paraguay where representatives from 15 Latin American countries attended the workshop. Discussed design and statistical estimation methodology for the PES and the evaluation of coverage errors and content errors.

U.S. Census Bureau 2010 Census Coverage Measurement Workshop (2009). Participated as a statistical expert in the workshop and discussed statistical methodology including design and estimation for the 2010 Census Coverage Measurement (known as PES outside the United States).

Chief, Decennial Statistical Studies Division, U.S. Census Bureau, U.S. Department of Commerce (2002 – 2006).

Coverage Measurement (CCM) Program for the 2010 Census (2002-2006). Led an innovative Census Coverage Measurement Program (known as PES outside the United States) for the 2010 United States census. Defined goals, objectives, and priorities for an ambitious CCM program that was expanded considerably from previous censuses. Directed all CCM phases including

questionnaire design, questionnaire automation, operations and procedures, sample design, imputation and nonresponse adjustments, statistical estimation, and data analysis.

Census 2010 Planning and Research (2002 - 2006). Directed the development of Decennial Census processes that helped the Census Bureau accomplish its field automation goals for the 2004 Census Test. Directed research to improve census enumeration methodology by improving questionnaire, and data collection procedures, including automation. With other divisions, developed and implemented questionnaire contents in the 2004 and 2005 census tests to improve the household roster questions. Directed the development of an innovative automated methodology to improve the reinterview program used for census, CCM, and other field operations.

American Community Survey (2003 - 2006). Directed the implementation of the 2005 ACS sample design, the development of statistical estimation procedures to reduce variance of ACS estimates for small population groups and geographical areas, and the improvement of institutional population sampling frame. Led efforts for the Census Bureau to meet American Community Survey (ACS) reliability requirements, and timely completion of several critical ACS production activities. Directed the development of ACS Quality Profile. Participated in numerous interactions with Census Bureau Advisory Committees, other U. S. Federal agencies, State Data Center members, and other data users to ensure accurate and thorough provision of information about the ACS.

Puerto Rico Community Survey (2003 - 2006). Directed the development and implementation of statistical estimation procedures, as well as research to improve estimates.

Swiss Federal Statistical Office (2002-2003). As a statistical advisor, provided technical assistance to the Swiss Statistical Office. The consultation included all aspects of PES with focus on estimation. Some of the topics covered were data collection, matching operations, missing data, dual system estimation and estimation of coverage errors.

Assistant Division Chief, Decennial Statistical Studies Division, U.S. Census Bureau, U.S. Department of Commerce (1998 - 2002)

Sampling and Estimation Methods for the 2000 Census (1998 - 2002). Directed the development and implementation of the sampling and estimation methods for the 2000 U.S. Census long form. Developed and implemented the procedures for nonresponse follow-up (NRFU), integrated coverage measurement (ICM) also known as Post Evaluation Survey (PES), and the Census Evaluation Survey. Working with senior management, planned and coordinated statistical programs involving censuses, surveys, and related activities covering survey design, estimation, mathematical and statistical modeling, and experimental

design. Developed and implemented sampling and estimation procedures for the NRFU in the Census 2000 Dress Rehearsal, conducted walk-through of the procedures for the NRFU and ICM, to ensure that the specifications met the Census Bureau's policies and goals.

Communicating Census Methods to Stakeholders (1998 - 2002). Prepared written replies and responded to phone inquiries from the Congressional Offices, the Census Advisory Committees, and the news media about Decennial Census statistical methods. Directed the dissemination of information and materials to satisfy requests from various groups.

Liaison for the Statistical Estimation Group of the Secretary of Commerce's 2000 Census Advisory Committee (1998 - 2002). Discussed complex statistical methods in non-technical terms with the group and coordinated the responses to their requests.

Chief, Coverage Research Staff, Statistical Research Division, U.S. Bureau of the Census, U.S. Department of Commerce (1993 - 1998).

Coverage Research for Census and Surveys (1993 - 1998). Coordinated coverage research proposals within the U.S. Census Bureau. Directed, conducted, and coordinated coverage research for demographic surveys, such as, American Community Survey (ACS), Survey of Income and Program Participation (SIPP), and Current Population Survey (CPS), as well as the 2000 U.S. Census. Research focused on projects to improve coverage in surveys and increase understanding of undercoverage related issues. Directed the development of an experiment to evaluate the effect of householder contact on the mail-response rate and the improvement of whole housing unit coverage. Monitored and reported progress on research and evaluation work within the U.S. Census Bureau.

1995 and 1996 Integrated Coverage Measurement (ICM) Tests (1994-1996). Lead ICM Sample Design and Estimation Team to develop the sample design and estimation methodology for the 1995 and 1996 Census tests. Directed and participated in missing data research for the 1995 and 1996 ICM tests. This research investigated various alternatives to handle missing data and provided a statistically sound methodology for 2000 Census. Developed, implemented, and evaluated sample designs and estimation methodologies for the ICM and the nonresponse follow-up.

Member of the Census Managers Team. Participated in a decision making process for the 2000 Census related projects. Developed and coordinated budgets for various 2000 Census projects. Provided recommendations for the Census activities under various budget options and prioritized census related projects.

Liaison between the Census Managers' team and the ICM teams. Provided guidance to various ICM teams and maintained communication between them.

Member of the Evaluation Program Steering Team (EPST) for the 2000 Census. Participated in developing evaluation plans for the 2000 Census and its dress rehearsal. Identified evaluation projects and developed their implementation plans in consultation with participating divisions.

Member of the Team to Review Impact of Household Roster. Reviewed and summarized results of earlier rostering research. The team documented the state of knowledge in the rostering area and made recommendations to the Director of the Census Bureau on the household roster design for the 2000 Census questionnaire.

Chief, Survey of Income and Program Participation Branch, Statistical Methods Division, U.S. Census Bureau, U.S. Department of Commerce (1985 - 1993).

Survey of Income and Program Participation (1985 - 1993). Directed and conducted research, evaluation, planning for the post 1990 census sample redesign of the Survey of Income and Program Participation (SIPP). Monitored and coordinated survey methodological work on SIPP at the Census Bureau. Directed and supervised work on new surveys assigned to the branch. Supervised the review and approval of weighting and statistical methods in Bureau's publications.

Chair of Inter-division Research and Evaluation Committee. Directed and coordinated the research and evaluation work on the SIPP. Contributed to the design of experiments and research projects to improve the quality of estimates. This work included cognitive research, design and analysis of a telephone interview experiment, and a respondent incentive experiment. Directed the evaluation of SIPP estimates for economic and demographic characteristics, effect of time-in-sample, nonresponse and other non-sampling errors on the SIPP estimates. Held regular discussions with eminent U.S. and Canadian survey statisticians and exchanged ideas to improve estimates and other aspects of the SIPP.

1990 Redesign Research Group. As chair of the group, directed research on various 1990 Census based redesign projects for the Bureau's Demographic Surveys including American Housing Survey (AHS), Current Population Survey (CPS), National Crime Survey (NCS), Survey of Program and Participation (SIPP), Consumer Expenditure Survey (CE), and General Purpose Survey (GPS). These projects emphasized making survey design more efficient by using recent research, modern technology, and data from the 1990 Census.

Representative to the Survey Research Method Section of the American Statistical Association (ASA) Working Group on Methodological Aspects of SIPP. Served as U.S. Census Bureau representative to the American Statistical

Association Working Group. Presented SIPP Research conducted at the Census Bureau, and exchanged ideas for further research to enhance SIPP.

Chief, Cross-sectional Surveys Branch, Statistical Methods Division, U.S. Bureau of the Census (1981 – 1985).

1980 Surveys' Redesign Research (1981 – 1985). Led and made significant contributions to 1980 redesign research projects which covered a wide range of issues including: rotation of sample, PSU formation, within PSU selection, recall bias, over-sampling of minorities, improving estimates for the Hispanic population, rotation group bias, cluster size, stratification, sample overlap, estimation, etc. Developed an algorithm using statistical techniques to determine the relationship between PSU variance and the number of sample PSUs. Contributed to the development of a complex PSU stratification algorithm. Developed and implemented strategies to address possible future design changes for SIPP, NCS and GPS. Supervised the development, writing, and implementation of the specifications for the within PSU Sampling from the 1980 Census lists, local area building permit offices, and for using area sampling when necessary for all the major demographic surveys.

National Crime Survey (1981 – 1985). Led the establishment of the National Crime Survey (NCS) design objectives and identified research areas for redesign by working closely with the Bureau of Justice Statistics (BJS). Researched all stages of estimation for the NCS including households touched by crimes and the preliminary calendar year estimates. Worked closely with the NCS Redesign Research Consortium formed by the BJS.

Survey of Income and Program Participation (1982 - 1985). Directed development of all aspects of the implementation of the Survey of Income and program Participation (SIPP), including survey design, statistical estimation, imputation, content framework, questionnaire design, survey operations and procedures, data analyses, and data products and report plans. Developed the estimation methodology for the cross-sectional and longitudinal estimates for the SIPP.

Long Term Care Survey (1983 – 1985). Worked closely with the Social Security Administration (SSA) to define objectives and the sample size for the survey. Developed the design of the Long Term Care (LTC) survey. Identified administrative records as the most efficient frame for the survey. Directed development and implementation of the sampling, weighting, and variance estimation procedures.

General Purpose Sample (1981 – 1985). Developed strategies and goals for General Purpose Survey (GPS). Directed the 1980 redesign of the GPS including sample identification to meet different goals and sample sizes.

**Section Chief, Current Population Survey Branch, Statistical Methods Division,
U.S. Bureau of the Census (1979 - 1981).**

Supervised Mathematical Statisticians on various aspects of the Current Population Survey (CPS). Planned and conducted research for the 1980 Census based redesign. Research covered areas such as stratification methodology, stratification variables, within PSU sampling, weekly CPS interviewing, new construction time lag, and improving estimates of minorities. Supervised the development of weighting specifications and variance estimates to accommodate CPS sample expansions. Evaluated the effects of changes to the questionnaires.

**Section Chief, Census Operations Branch, Statistical Methods Division, U.S. Bureau
of the Census (1977 - 1979).**

Supervised and provided directions to Mathematical Statisticians. Designed 1980 Census long form sampling plan to collect socio-economic data. Proposed various estimation methods to estimate population and housing characteristics and their variances from the 1980 Census sample data. Evaluated and guided evaluation of these proposed methods so that the most appropriate method is adopted. Computed various state and national estimates and their CVs on various projects.

Other Experience (1969 - 1977).

Taught statistics for graduate and undergraduate levels. Consulted with various research groups and provided technical advice to different levels of corporate management. Formulated and implemented statistical studies at various organizations including Chrysler Corporation, Highland Park; Cleveland Clinic, Cleveland; Bobby Brooks company, Cleveland; and Chase Brass and Copper Company, Cleveland. Solved a number of challenging research problems by applying advanced statistical techniques such as sampling, linear programming, quality control, reliability, regression, statistical inference, numerical analysis, experimental design, probability, non-parametric, distribution theory, and other techniques. Examples of contributions include the development of an acceptance criteria for certain auto parts, a forecasting model to project sales of garments, and a quality control program for coil springs.

MANUSCRIPT REVIEWS

Served as a referee for journals such as *Survey Methodology*, the *Journal of Official Statistics*, the *Society for Industrial and Applied Mathematics (SIAM)*, and the *American Statistician*.

PROFESSIONAL AFFILIATIONS (1973 - 2012)

Expert participant on 2010 Census Coverage Measurement Workshop of the U.S. Census Bureau, 2009

Membership in the American Statistical Association (ASA), the Survey Research Methods Section of ASA, and the Washington Statistical Society

Census Bureau Coordinator to American Statistical Association subcommittee of the Census Advisory Committee of Professional Associations, 1994 – 1998

Technical Liaison to the American Statistical Association/ Survey Research Methods Section Working Group on the Technical Aspects of the SIPP, 1986 – 1993

Served as an expert on Statistical Review Committee for Army Communications Objective Measurement Survey (ACOMS) of the U.S. Department of Army, 1986

Served as a statistical expert on a proposal review panel for ACOMS, U.S. Department of Army, 1985-1986

CONFERENCE AND SYMPOSIA (1973 – 2005)

Organized invited and contributed paper sessions at the meetings of the American Statistical Association (1988, 1989, 1991, 1992, 1994, 1995, 1996, 1997, 1998, 2001, and 2004)

Lead speaker at round-table discussions at the meetings of the American Statistical Association (1997 and 2005)

Participated as an author at the meetings of the American Statistical Association, Institute of Mathematical Statistics, the Association of Public Data Users, the American Society of Criminologists, the International Statistical Conferences including the International Conference on Survey Methodology and Process Quality, International Workshop on Household Surveys nonresponse, the Statistics Canada Symposium 92, the International Symposium on Panel Surveys, and the International Association of Survey Statisticians.

AWARDS

Received numerous awards including Silver Medal Award (the highest achievement award of the U.S. Department of Commerce) for design and implementation of the Census 2000 Accuracy and Coverage Evaluation Survey, Bronze Medal Award (the highest U.S. Census Bureau's achievement award) for major contributions to SIPP, and other achievement awards at the U.S. Census Bureau for contributions to censuses and demographic surveys.

PAPERS AND PUBLICATIONS

- "Research Findings of the Accuracy and Coverage Evaluation and Census 2000 Accuracy", (with Howard Hogan, Donna Kostanich, and David Whitford), *Proceedings of the Section of Survey Research Methods, American Statistical Association 2002*.
- "Initial Assessment of the Census 2000 Accuracy and Coverage Evaluation Survey", (with D. Kostanich, and H. Hogan), *Proceedings of the Section of Survey Research Methods, American Statistical Association, 2001*.
- "Situation on the 2000 American Population Census", *Proceedings of the International Workshop on the 2000-2001 World Population Census and the Related Issues, Japan Statistical Research Institute, Hosei University, Tokyo, Japan, 1999*.
- "Census 2000 Dress rehearsal Methodology and Initial Results", (with P.J. Cantwell, and D.L. Kostanich), *Proceedings of the Section of Survey Research Methods, American Statistical Association, 1999*.
- "Handling of Household and Item Nonresponse in Surveys", (with R.J. Petroni), *Proceedings of the Eighth International Workshop on Household Surveys nonresponse, Mannheim, Germany, 1997*.
- "Dual System Estimation Research Areas for Census 2000", (with R. Griffiths, and R. Petroni), *presented at the Annual Meeting of the American Statistical Association, Anaheim, California, August 10-14, 1997*.
- "Comparison and Evaluation of Alternative ICM Imputation Methods", (with S.M. Dorinski, R.J. Petroni and M. Ikeda), *Proceedings of the Section of Survey Research Methods, American Statistical Association, 1996*.
- "Should We Account for Missing Data in Dual System Estimation?", (with R.J. Petroni and A.T. Kearney) *Proceedings of the Sixth International Workshop on Household Survey Nonresponse, Helsinki, Finland, 1995*.
- "Impact of Sampling for Nonresponse Follow-up on Census Methodology for One Number Census", (with R.J. Petroni and M.J. Ikeda), *Proceedings of the Section of Survey Research Methods, American Statistical Association, 1995*.
- "Development and Evaluation of Census Methodology for 2000 Census", (with M.H. Mulry), *Proceedings of the International Conference on Survey Methodology and Process Quality, Bristol, U.K., 1995*.
- "New Applications of Sampling and Estimation in the 1995 Census Test", (with M.H. Mulry), *Proceedings of the Section of Survey Research Methods, American Statistical Association, 1994*.

"Oversampling in Panel Surveys", (with R.J. Petroni and T.M. Allen), *Proceedings of the Section of Survey Research Methods, American Statistical Association, 1994*. Also published as *SIPP Working Paper Number 9408*.

"Plans for Sampling and Estimation in the 2000 Census", (with M.H. Mulry), *presented at the Annual Meeting of the Population Association of American, 1994*.

"The Effectiveness of Oversampling Low Income Households in the Survey of Income and Program Participation", (with T.W. Allen and R.J. Petroni), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1993*.

"Imputation for Wave Nonresponse in the SIPP", (with J.M. Lepkowski, D.P. Miller, and G. Kalton), *Proceedings of Statistics Canada Symposium 92: "Design and Analysis of Longitudinal Surveys," August, 1993*.

"Methodological Experiments in SIPP", *Proceedings of Statistics Canada Symposium 92: "Design and Analysis of Longitudinal Surveys," August, 1993*.

"Longitudinal Weighting Issues and Associated Research for the Survey of Income and Program Participation", (with R. Petroni and D. Kasprzyk), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1992*.

"Investigation Time-in-Sample Effect for the Survey of Income and Program Participation", (with M. McCormick and D. Butler), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1992*.

"Oversampling the Low Income Population in the Survey of Income and Program Participation (SIPP)", (with V. Huggins and G. Weller), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1991*.

"Handling Single Wave Nonresponse in a Panel Survey", (with V. Huggins and D. Kasprzyk), *presented at the Survey Design Methodology and Analysis Conference, University of Essex, Colchester, England, July 4-7, 1990*. Also published as *SIPP Working Paper Number 9009*.

"Nonresponse Adjustment Methods for Demographic Surveys at the U.S. Bureau of the Census", (with R. Petroni), *Proceedings of the Research Planning Conference on Human Activity Patterns, 1988*; sponsored by the Environmental Research Center, University of Las Vegas, Las Vegas. Also published as *SIPP Working Paper Number 8823*.

"Quality of the SIPP Estimates", (with L. Weidman and G. Shapiro), *Proceedings of the Conference on Individuals and Families in Transition: Understanding*

Change Through Longitudinal Data, March 16-18, 1988; U.S. Bureau of the Census. Also published as *SIPP Working Paper Number 8901*.

"Data Quality of the Survey of Income and Program Participation", (with K. King and R. Petroni), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1987*. A longer version of this paper is published as *SIPP Working Paper Number 8708*. * *

"SIPP: Longitudinal Estimation for Persons' Characteristics", (with E. Kobilarcik), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1986*.

"Gross Flow and Spell Estimates from SIPP", (with L. Weidman and G. Shapiro), *presented at the International Symposium on Panel Surveys, Washington, D.C., 1986*.

"Some Possible Uses of UCR by NCS to Produce Local Estimates", (with C. Alexander), *presented for the Conference of the American Society of Criminologists, 1984*.

"A Study of the Relationship Between the Number of Sample PSUs and Between PSU Variance", (with D. Hubble, C. Alexander, and D. Judkins), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1984*.

"Alternative Reference Periods for the National Crime Survey", (with E. Kobilarcik, C. Alexander and G. Shapiro), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1983*.

"Detailed Cost Data for Census Bureau Demographic Surveys", (with G. White and G. Shapiro), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1983*.

"Efforts to Improve the Reliability of Minority Estimates in the Redesign of the Current Population Survey", (with D. Lorah and R. Tegels), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1981*.

"Modification of Friedman - Rubin's Clustering Algorithm for Use in Stratified PPS Sampling", (with D. Kostanich, D. Judkins and M. Schautz), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1981*.

"Using Clustering Algorithms to Stratify Primary Sampling Units", (with D. Judkins), *Proceedings of the Section on Survey Research Methods, American Statistical Association, 1981*.

"Empirical Research Involving an Alternative Variance Estimator to the Collapsed Stratum Variance Estimator", (with G. Shapiro and D. Bateman),

Proceedings of the Section on Survey Research Methods, American Statistical Association, 1980.

"Technical Note on Sensitivity Analysis", in Statistical Policy Working Paper 1: *Report on Statistics for Allocation of Fund, Office of Statistical Policy and Standards, U.S. Department of Commerce, 1978.*

"The Community Development Block Grant (CDBG) Program", (with R. Clemmer), Appendix in Statistical Policy Working Paper 1: *Report on Statistics for Allocation of Fund, Office of Statistical Policy and Standards, U.S. Department of Commerce, 1978.*

"Estimating the Means of Contaminated Normal Populations", presented at the American Statistical Association Meeting, August 23-26, 1976.

"Testing Hypotheses of Contaminated Normal Populations", presented at the Annual Meeting of the Institute of Mathematical Statistics, December 27-30, 1973.

INTERNATIONAL CENSUS REVIEW TEAM—2012 CENSUS WEEK 1 ACTIVITY REPORT

This first report of the International Census Review Team is prepared jointly by all members. It covers the period from Monday 2 September 2013 through Friday 6 September 2013. Two of the three members, Rajendra Singh and Griffith Feeney, were present in Santiago during this period. The third member, Roberto Bianchini, could not be in Santiago due to prior commitments, but the three members conducted several conference calls during the period.

Work began with a meeting with INE Director Dr. Juan Eduardo Coeymans. He presented an overview of INE and its products. INE produces 60 statistical products, has operational, Technical, Administrative and Computer Technology areas and receives its budget through the Ministry of the Economy. Dr. Coeymans emphasized that prior to his acceptance of the post he was instructed by the President to be completely transparent.

The Director also described the External Census Review Commission, their activities, the support provided them by INE, and some of their recommendations.

He indicated that the mission of the International Census Review Team is to give him an assessment of the collected data for the policy and to provide guidance on how to proceed in the near future, including whether the census should be adjusted and if so by what methodology. He noted also that the Team's report would be public.

Subsequently the team received presentations on the 2012 census by INE staff. The presenters covered the census activities described below and answered questions we raised.

General Overview -- The census director presented an overall brief discussion of census. An important point he made was that the 2012 census made a change late in the process to use *de Jure* census instead of *de facto* census that was used in 2002. The same point was also made by the INE Director.

Data Capturing -- INE staff briefed us on data capturing operations and the quality process associated with it. The quality of the scanning was evaluated using a sample. Based on the sample, the errors were estimated as 0.14% in scanning, 0.29% in person records, and 0.01% in gender (male and female). The presentation also included coefficient of variations on these estimates and the calendar time used to conduct the operation.

Data Collection -- The presentation included the data collection schedule, hiring process, number of employees by their categories, problems with planning due to inexperience with *de Jure* census, quality process during the data collection. The presentation included the percentages at the national level of those who were living in occupied dwellings but did not respond (absentees according to INE definition). It was pointed out that the non-response varied by region.



Weaknesses and Strengths of the 2012 Census -- Weaknesses include lack of continuity in leadership at the INE, not conducting a complete census pilot test, and insufficient budget for a *de jure* census. Strengths included updating statistical mapping, improved cartography compared to 2002 census, better qualifications and training of enumerators, and the use Regional Census Directors made of information and communication technology.

Accounting of Dwelling -- The presentation covered the final count of dwellings deemed occupied for which occupants could not be interviewed (INE called them absentees), allocated and counted populations by region and communes without dwelling adjustments. It was pointed out that the omitted dwelling unit adjustment 1.5% (population adjustment of 1.7%), non-enumeration of occupants of occupied dwelling 3.03% (population adjustment of 3.5%).

2012 Census Action Plan -- During this presentation, speaker covered the 2012 census action plans covering various operation of the 2012 census, and planning for the upcoming census operations. Upcoming census operations discussed included two alternatives. These were described as 1) intermediate population counts for 2015 and 2020 census, 2) 2017 census of population and housing (without intermediate counts). The presentation also included these two census options in combination of making use of sampling of non-interviewed dwellings. The presenter asked for our recommendation on these alternatives.

Demographic Evaluation -- The presenter discussed population projections. He used fertility and mortality statistics for regions. However, he pointed out that domestic migration statistics are problematic for smaller areas. He analyzed the growth rate and mentioned that the Canadian method was used in 2002.

The presentations included little information on census field operations. The quality of census field work is the back bone of the final census results. We therefore requested additional information on field operations, including field visits to regional offices to shed further light on what actually happened in the field. We visited three census field work sectors in Santiago on Friday, including two in low income areas and one in an upper income area.

We met several times with one member of the External Census Review Commission, Magda Ruiz, to understand the methodology used to estimate the variability of 2012 census omission at the commune level. We were given a very detailed presentation of the methodology, including definitions of the parameters and the assumptions made in to estimate omission for communes.

We have requested INE to arrange four meetings during the coming week, one meeting with each of the remaining members of the External Census Review Commission. These meetings must be completed by end of work on Thursday 12 September to allow time for our finalization of this first phase of our work on Friday, the last working day of our visit to Santiago. We requested several data sets for inspection.

Rajendra Singh and Griffith Feeney
Friday 6 September 2013

