

7D-AAM-155
MEMORANDUM

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

TO : William H. Foege, M.D.
Director, Center for Disease Control (CDC)
Through: Philip S. Brachman, M.D.
Director, Bureau of Epidemiology (BE)

DATE: February 19, 1980

FROM : Jack C. Smith, M.S.
Charles W. Warren, Ph.D.

SUBJECT: Foreign Trip Report (AID RSSA): U.S./Mexico Border Survey - Mexico City,
Mexico, January 22-25, 1980

SUMMARY

- I. DATES AND PLACES OF TRAVEL
- II. PURPOSE
- III. CHIEF PERSONS CONTACTED
- IV. BACKGROUND
- V. RESULTS OF CONSULTATION
- VI. FUTURE ACTIVITIES

SUMMARY

CDC/PAHO have a contract (No. 200-79-0942) with the Coordinacion del Programa Nacional de Planificacion Familiar of Mexico to provide CDC with specific data from the 1979 Mexican National Survey of Family Planning and Maternal and Child Health. These data will include fertility estimates, contraceptive prevalence data, and information on levels of maternal and child health services for the six northern border states. We have received the first two reports specified under our contractual arrangement.

We have worked closely with Pepe Garcia Nuñez and his staff and with Alan Keller of PAHO to develop a plan for a comprehensive collaborative report for the U.S./Mexico Border based on data from the U.S./Mexico Border Survey conducted by CDC in portions of Texas, New Mexico, Arizona, and California and data from the Mexican National Survey which is specific to the six northern Mexican border states. We have agreed on a set of tabulations to be produced by Mexico. These are specified in TAB F which is attached to the November 27, 1979 foreign trip report.

Intermediate to the overall collaborative report, CDC and our Mexican counterparts are attempting to prepare separate but coordinated presentations of survey results from the respective countries at the U.S./Mexico Border Health Association Meeting, April 20-23, 1980. This has posed some difficulties because of differences in the time frame with which data from the two surveys have become available. The U.S. survey data is now in its preliminary analysis phase while the Mexican survey data is approximately six weeks away from being ready for analysis.

We are consulting frequently with Mexico by telephone and have recently had a consultation visit to assist Señor Nuñez and his staff to formulate plans and finalize details in order to get a subset of tabulations from TAB F in time for analysis and presentation as the Mexican portion of a joint report at the Border meeting.

Our recent consultation visit resulted in agreement on the time frame and content of 15 basic tabulations to be produced and agreement that CDC will provide technical assistance in analyzing the data and in writing the report to be delivered by an official of the Mexican Ministry of Health.

I. DATES AND PLACES OF TRAVEL

January 22-25, 1980 - Mexico City, Mexico

II. PURPOSE

- A. To discuss with Pepe Garcia Nuñez and his staff details of tabulations which CDC proposes to be produced from the Mexican National Survey for presentation at the U.S./Mexico Border Health Association Meeting in Saltillo, Mexico, April 20-23, 1980.
- B. To discuss preliminary results from CDC's U.S./Mexico Border Survey with our Mexican counterparts and to discuss statistical details of our weighting scheme and method of calculating standard errors based on consultation to CDC from POPLAB, University of North Carolina at Chapel Hill; also to discuss the Mexican scheme of weighting and calculation of standard errors.
- C. To discuss with Pepe Garcia Nuñez and his staff in further detail CDC and Mexico's plans for a comprehensive collaborative report of findings for the U.S./Mexico Border from the two country surveys.
- D. To provide technical review of the tables that Pepe Garcia Nuñez and his staff have proposed for presentation to the President of Mexico in mid-March.
- E. To discuss and review with Pepe Garcia Nuñez and his staff and with Alan Keller plans and time frames for editing the data and preparing a clean data tape for analysis.
- F. To ascertain what technical assistance will be needed from CDC by Pepe Garcia Nuñez and Alan Keller in order to have a presentation of collaborative results ready to deliver at the Border Meeting, April 20-23, 1980.
- G. To discuss the second quarterly progress report in fulfillment of the contract.

III. CHIEF PERSONS CONTACTED

- A. Jose (Pepe) Garcia Nuñez, Survey Director, Mexican National Family Planning and Maternal and Child Health Survey
- B. Leopoldo Nuñez, Staff Demographer
- C. Dr. Alan Keller, PAHO

IV. BACKGROUND

At the U.S./Mexico Border Health Association Meeting in 1978 a technical resolution was adopted supporting a collaborative effort between PAHO and U.S. and Mexican health officials to collect information along the U.S./Mexico border needed to more precisely specify family planning and MCH policies and goals and to better allocate public resources to resolve social, economic, and health problems resulting from inadequate services. Household probability surveys on both sides of the border are being used to assess current use and needs for contraceptive and MCH services. CDC was given responsibility for conducting a survey on the U.S. side of the border and for collaborating with the Mexican government on technical aspects of the survey conducted by Mexico on their side of the border.

The U.S./Mexico Border Survey conducted by CDC is now in its preliminary analysis stage. Frequencies of all variables have been produced and tabulations needed for presentation at the Border meeting, April 20-23, 1980 are partially complete and will be completed by late February with technical assistance from POPLAB. Weights have been derived and added to the final data tape and a strategy is being developed for calculation of standard errors.

A nationwide Mexican survey of fertility, mortality, contraceptive use and MCH services is being used as the basic mechanism for collecting data on the Mexican side of the U.S./Mexico border. However, the national survey lacked an adequate sample size to provide realistic estimates for the border area, so CDC has contracted through PAHO to double the sample size in the northern border states to obtain adequate data to prepare an analytical report of findings relative to the objectives set forth in the U.S./Mexico Health Association technical resolution of 1978.

In an attempt to establish a better understanding of the Mexican effort to collect and analyze family planning and maternal and child health data from their national survey and in order to monitor the CDC/PAHO contract which provided money for the Mexican survey to over sample the border, two previous trips have been made to meet with Pepe Garcia Nuñez and his staff and Alan Keller of PAHO (see Foreign Trip Report, November 27, 1979).

V. RESULTS OF CONSULTATION

- A. We agreed on 15 basic tabulations (see Attachment I) which the Mexicans will produce by mid-March. These will serve as the basis of analysis for an analytical paper to be prepared and given at the Border Association Meeting April 20-23, 1980. The production of these tabulations is contingent on Pepe Garcia Nuñez's staff's ability to edit and build a clean analysis tape in a sufficient time frame. An alternative plan was agreed on in the event that a clean analysis tape cannot be prepared in time to produce all 15 tabulations by mid-March. That alternative plan calls for the contraceptive prevalence tabulations (Tables 9-14 in Attachment I) to be produced from the previously done 1978 National Survey rather than the current 1979 National Survey. The tabulations for making fertility estimates (Tables 1-7 in Attachment I) will be produced from the 1979 National Survey in either case.
- B. Information on creation of weights and calculation of standard errors was exchanged. CDC is proposing to calculate standard errors using a technical computer package (SESUDAAN) developed at the Research Triangle Institute for SENIC--University of North Carolina, while the Mexicans intend to use CLUSTERS developed at the University of Michigan and used by the World Fertility Survey. We proposed to Señor Nuñez that in our further discussions in early February with POPLAB's sampling expert, William Kalsbeek, that we would explore the relative merits and disadvantages of the two computer packages. We discussed briefly some preliminary results of our U.S. survey, mostly regarding presentation styles.
- C. We agreed that after the initial 15 basic tabulations for the U.S./ Mexico Border Health Association Meeting are done, Señor Nuñez and his staff will begin work on the remaining tabulations suggested previously by CDC in TAB F (See Attachments to Foreign Trip Report, November 27, 1979). These tabulations will serve as the basis of Mexico's contribution to a larger collaborative border report to be prepared jointly by both countries.
- D. A review of the tabulations that Señor Nuñez and his staff are proposing for a major presentation of fertility, mortality, growth rate, and contraceptive prevalence to the President indicated that they had already included some of the 15 tabulations we were proposing as a part of their tabs. But our review also helped to better define and refine the precise content of the fertility tables and contraceptive prevalence tables, especially as related to basic data necessary to compute refined fertility rates.

- E. We suggested to Señor Nuñez that an additional edit of consistency between household and respondent information, where possible, might prove useful. He agreed to incorporate the additional edit. We discussed the edit procedures used by CDC for the U.S./Mexico Border Survey and the proposed edit procedures to be used by the Mexicans. They anticipate it will take approximately 6 weeks to complete the edit of the prevalence survey data (excluding the continuation section). Señor Nuñez does not plan to begin editing the maternal and child health portion of the survey until the prevalence part is completely edited. Alan Keller will be involved with Señor Nuñez in editing the contraceptive continuation section and the maternal and child health portion.

- F. We agreed that CDC staff should return to Mexico to provide technical review of the 15 basic tabulations for the border meeting when they are produced and to take these tabulations back to CDC for compilation into tables for presentation. If the tables are not completely satisfactory, this return visit should allow time for adjudication of differences and determining if correct tabulations can be produced in the time frame. We also agreed that demographic technical assistance would be provided to Alan Keller and others in the actual writing of the presentation for the Border Association meeting. This offer of CDC demographic technical assistance has also been made to Dr. Sergio Correu Azcona, Direccion General de Salud Materno Infantil y Planificacion of Familiar January 22, 1980 by Marlyn Kefauver of the Office of International Health. Additional consultation and contact will be necessary at some time near the end of the contract July 1, 1980 at which time a more comprehensive collaborative report based on all of the tabulations specified in TAB F will be prepared.

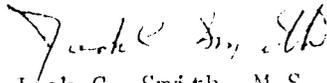
- G. We collaborated on the content of the second quarterly progress report required by the contract.

VI. FUTURE ACTIVITIES

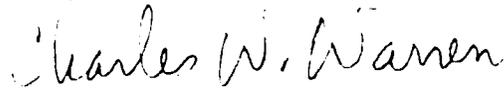
Three additional trips for consultation are planned. One trip in mid-March will be to review the 15 basic computer tabulations specified for the U.S./Mexico Border Health Association Meeting and to bring those tabulations back to CDC for data reduction, compilation and analysis. Another trip approximately

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two weeks later (April 1) will be for the purpose of working with Alan Keller and Pepe Garcia Nunez to actually write an analytical report for presentation at the Border Meeting. A final trip for consultation in June or July will finalize plans for the comprehensive collaborative report of findings specified by the TAB F tabulations which were agreed on at an earlier consultation.



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Chief, Statistical Services Branch



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Statistician/Demographer
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Attachment

PROPOSED MINIMUM TABULATIONS
FOR COLLABORATIVE ANALYSIS
FROM UNITED STATES AND MEXICO SURVEYS
FOR U.S./MEXICO BORDER ASSOCIATION MEETING
APRIL 20-23, 1980

Filters:

- 1) 6 Northern States in Mexico
- 2) Women Currently Married or in Consensual Union
- 3) Women Aged 15-44 Years

TABLE

- 1) Percent Distribution of Currently Married Women 15-44 by Five-Year Age Group and Size of Location
- 2) Percent Distribution of Currently Married Women 15-44 by Number of Children Ever Born and Current Age (WFS 2.2.1a)
- 3) Percent Distribution of Currently Married Women 15-44 by Number of Children Ever Born and Years Since First Marriage (WFS 2.2.2a)
- 4) Mean Number of Children Ever Born to Currently Married Women 15-44 by Age at First Marriage and Years Since First Marriage (WFS 2.2.3a)
- 5) Mean Number of Children ever Born to Currently Married Women 15-44 by Age at First Marriage and Current Age (WFS 2.2.4a)
- 6) Total Population by Single Year of Age, Five-Year Age Group and Sex (POPLAB--First Priority Table 1)
- 7) Total Population Currently Married Women 15-44 by Single Year of Age, Five-Year Age Group
- 8) Number of Currently Married Women 15-44 Reporting a Birth in the 12 Months Preceding the Survey, by Age Group and Number of Children Ever Born (POPLAB--First Priority Table 9)
- 9) Percent of Currently Married Respondents Either Currently Using Contraception by Method or Not Currently Using Contraception by Reason by Education (TAB F--C.8)
- 10) Percent of Currently Married Respondents Either Currently Using Contraception by Method or Not Currently Using Contraception by Reason by Age Group (TAB F--C.9)
- 11) Percent of Currently Married Respondents Either Currently Using Contraception by Method or Not Currently Using Contraception by Reason by Number of Living Children (TAB F - C.10)
- 12) Percent of Currently Married Respondents Either Currently Using Contraception by Method or Not Currently Using Contraception by Reason by Current Employment Status (TAB F - C.11)
- 13) Percent of Currently Married Respondents Either Currently Using Contraception by Method or Not Currently Using Contraception by Reason by Years Since First Marriage (TAB F - C.12)
- 14) Percent of Currently Married Respondents Either Currently Using Contraception by Method or Not Currently Using Contraception by Reason by Age at First Marriage (TAB F - C.15)
- 15) Percent of Currently Married Current Users of Contraception by Source of Contraception and Method of Contraception (TAB F - D.13)

Table 1

PERCENT DISTRIBUTION OF CURRENTLY MARRIED WOMEN 15-44
BY FIVE YEAR AGE GROUP AND SIZE OF LOCATION

<u>Age</u>	<u>Size of Location</u>	
	<u>< 50,000</u>	<u>≥ 50,000</u>
15-19	--	--
20-24		
25-29		
30-34		
35-39		
40-44		
All		

Table 2

PERCENT DISTRIBUTION OF CURRENTLY MARRIED WOMEN 15-44
 BY NUMBER OF CHILDREN EVER BORN AND CURRENT AGE
 (WFS TABLE 2.2.1a)

<u>Current Age</u>	<u>Number Children Ever Born</u>				<u>Mean</u>	<u>Unweighted Number</u>
	0	1	2	...*		
15-19						
20-24						
25-29						
30-34						
35-39						
40-44						
All						

*The distribution should extend to the maximum recorded value

Table 3

PERCENT DISTRIBUTION OF CURRENTLY MARRIED WOMEN 15-44
 BY NUMBER OF CHILDREN EVER BORN AND YEARS SINCE FIRST MARRIAGE
 (WFS TABLE 2.2.2a)

<u>Years Since First Marriage</u>	<u>Number Children Ever Born</u>				<u>Mean</u>	<u>Unweighted Number</u>
	0	1	2	...*		
< 5						
5- 9						
10-14						
15-19						
20-24						
25-29						
30+						
All						

*The distribution should extend to the maximum recorded value

Table 4

MEAN NUMBER OF CHILDREN EVER BORN TO CURRENTLY MARRIED
 WOMEN 15-44 BY AGE AT FIRST MARRIAGE AND YEARS SINCE FIRST MARRIAGE
 (WFS TABLE 2.2.3a)

<u>Years Since First Marriage</u>	<u>Age at First Marriage</u>						All
	< 15	15-17	18-19	20-21	22-24	25-29	
< 5							
5- 9							
10-14							
15-19							
20-24							
25-29							
30 +							
All							
Unweighted Number							

Table 5

MEAN NUMBER OF CHILDREN EVER BORN TO CURRENTLY MARRIED WOMEN 15-44
 BY AGE AT FIRST MARRIAGE AND CURRENT AGE
 (WFS TABLE 2.2.4a)

Current Age	<u>Age at First Marriage</u>						All
	< 15	15-17	18-19	20-21	22-24	25-29	
15-19							
20-24							
25-29							
30-34							
35-39							
40-44							
All							

Unweighted
 Number

Table 6

TOTAL POPULATION BY SINGLE YEAR OF AGE, FIVE-YEAR AGE GROUP
AND SEX
(POPLAB--FIRST PRIORITY TABLE 1)

<u>Age</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>
Total			
0			
1			
2			
3			
4			
0- 4			
5			
.			
.			
.			
9			
5- 9			
.			
.			
.			
10-14			
.			
.			
.			
15-19			
.			
.			
.			
70-74			
75+			

Table 7

TOTAL POPULATION CURRENTLY MARRIED WOMEN 15-44
 BY SINGLE YEAR OF AGE, FIVE-YEAR AGE GROUP

<u>Age</u>	<u>Number of Currently Married Women</u>
15	--
16	
17	
18	
19	
15-19	
20	
.	
.	
24	
20-24	
25	
.	
.	
.	
29	
25-29	
.	
.	
.	
40-44	
All	

Table 9

PERCENT OF CURRENTLY MARRIED RESPONDENTS EITHER
 CURRENTLY USING CONTRACEPTION BY METHOD OR NOT
 CURRENTLY USING CONTRACEPTION BY REASON BY EDUCATION
 (SEE TAB F--TABLE C.8)

<u>Contraceptive Status</u>	<u>Years of Education</u>						<u>Total</u>
	0	1-3	4-5	6	7-9	10 +	
<u>Currently Using</u>							
Tubal Ligation							
Vasectomy							
Injection							
Oral							
IUD							
Condom							
Withdrawal							
Rhythm							
Other							
<u>Not Currently Using</u>							
Hysterectomy							
Currently pregnant							
Desiring pregnancy							
Post Partum/Breastfeeding							
Not now sexually active							
Residual							
Total							
Unweighted Number							

NOTE: Variable C.33 by C.4
 See V.3 Description/Creation
 of Variables for Mexico Survey
 (TAB F)

Table 10

PERCENT OF CURRENTLY MARRIED RESPONDENTS EITHER
 CURRENTLY USING CONTRACEPTION BY METHOD OR NOT
 CURRENTLY USING CONTRACEPTION BY REASON BY AGE GROUP
 (SEE TAB F--TABLE C.9)

<u>Contraceptive Status</u>	<u>Age Group</u>						<u>Total</u>
	15-19	20-24	25-29	30-34	35-39	40-44	
<u>Currently Using</u>							
Tubal Ligation							
Vasectomy							
Injection							
Oral							
IUD							
Condom							
Withdrawal							
Rhythm							
Other							
<u>Not Currently Using</u>							
Hysterectomy							
Currently pregnant							
Desiring pregnancy							
Post Partum/Breastfeeding							
Not now sexually active							
Residual							
<u>Total</u>							
<u>Unweighted Number</u>							

NOTE: Variable C.33 by C.2
 See V.3 Description/Creation
 of Variables for Mexico Survey
 (TAB F)

Table 11

PERCENT OF CURRENTLY MARRIED RESPONDENTS EITHER
 CURRENTLY USING CONTRACEPTION BY METHOD OR NOT
 CURRENTLY USING CONTRACEPTION BY REASON BY NUMBER OF LIVING CHILDREN
 (SEE TAB F--TABLE C.10)

<u>Contraceptive Status</u>	<u>Number of Living Children</u>											Total	
	0	1	2	3	4	5	6	7	8	9	10 +		
<u>Currently Using</u>													
Tubal Ligation													
Vasectomy													
Injection													
Oral													
IUD													
Condom													
Withdrawal													
Rhythm													
Other													
<u>Not Currently Using</u>													
Hysterectomy													
Currently pregnant													
Desiring pregnancy													
Post Partum/Breastfeeding													
Not now sexually active													
Residual													
Total													
Unweighted Number													

NOTE: Variable C.33 by C.10
 See V.3 Description/Creation
 of Variables for Mexico Survey
 (TAB F)

Table 12

PERCENT OF CURRENTLY MARRIED RESPONDENTS EITHER
 CURRENTLY USING CONTRACEPTION BY METHOD OR NOT
 CURRENTLY USING CONTRACEPTION BY REASON BY CURRENT
 EMPLOYMENT STATUS
 (SEE TAB F--TABLE C.11)

<u>Contraceptive Status</u>	<u>Current Employment Status</u>		<u>Total</u>
	<u>Employed</u>	<u>Unemployed</u>	
<u>Currently Using</u>			
Tubal Ligation			
Vasectomy			
Injection			
Oral			
IUD			
Condom			
Withdrawal			
Rhythm			
Other			
<u>Not Currently Using</u>			
Hysterectomy			
Currently pregnant			
Desiring pregnancy			
Post Partum/Breastfeeding			
Not now sexually active			
Residual			
Total			
Unweighted Number			

NOTE: Variable C.33 by C.5
 See V.3 Description/Creation
 of Variables for Mexico Survey
 (TAB F)

Table 13

PERCENT OF CURRENTLY MARRIED RESPONDENTS EITHER
 CURRENTLY USING CONTRACEPTION BY METHOD OR NOT
 CURRENTLY USING CONTRACEPTION BY REASON BY YEARS
 SINCE FIRST MARRIAGE
 (SEE TAB F--TABLE C.12)

<u>Contraceptive Status</u>	<u>Years Since First Marriage</u>					<u>Total</u>
	< 5	5-9	10-14	15-19	20 +	
<u>Currently Using</u>						
Tubal Ligation						
Vasectomy						
Injection						
Oral						
IUD						
Condom						
Withdrawal						
Rhythm						
Other						
<u>Not Currently Using</u>						
Hysterectomy						
Currently pregnant						
Desiring pregnancy						
Post Partum/Breastfeeding						
Not now sexually active						
Residual						
Total						
Unweighted Number						

NOTE: Variable C.33 by C.28
 See V.3 Description/Creation
 of Variables for Mexico Survey
 (TAB F)

Table 14

PERCENT OF CURRENTLY MARRIED RESPONDENTS EITHER
 CURRENTLY USING CONTRACEPTION BY METHOD OR NOT
 CURRENTLY USING CONTRACEPTION BY REASON BY
 AGE AT FIRST MARRIAGE
 (SEE TAB F--TABLE C.15)

<u>Contraceptive Status</u>	<u>Age at First Marriage</u>						<u>Total</u>
	< 15	15-17	18-19	20-21	22-24	25 +	
<u>Currently Using</u>							
Tubal Ligation							
Vasectomy							
Injection							
Oral							
IUD							
Condom							
Withdrawal							
Rhythm							
Other							
<u>Not Currently Using</u>							
Hysterectomy							
Currently pregnant							
Desiring pregnancy							
Post Partum/Breastfeeding							
Not now sexually active							
Residual							
Total							
Unweighted Number							

NOTE: Variable C.33 by C.26
 See V.3 Description/Creation
 of Variables for Mexico Survey
 (TAB F)

Table 15

PERCENT OF CURRENTLY MARRIED CURRENT USERS OF CONTRACEPTION
 BY SOURCE OF CONTRACEPTION AND METHOD OF CONTRACEPTION
 (SEE TAB F--TABLE D.13)

<u>Source</u>	Method of Contraception*							
	Tubal Ligation	Vasectomy	Injection	Orals	IUD	Condom	Foam	Other
Mexico								
SSA								
IMSS								
ISSSTE								
Community Agency Program								
Other Institutions Financed by the Government								
FEPAC								
Pharmacy								
Private M.D. Store								
Other								
United States								

*Rhythm and Withdrawal does not apply