Completeness and Quality of Response in the North Carolina Marriage Follow - Back Survey

A pilot survey to study response rates and quality of data from mail follow-back surveys linked to marriage records.

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FOREWORD

This is a report on a pilot survey of recently married persons that was conducted for the National Center for Health Statistics by the University of North Carolina to test procedures for conducting follow-back surveys linked to marriage records. Dr. Bradley Wells and Dr. Elizabeth Coulter, Department of Biostatistics, School of Public Health, were the project director and deputy project director, respectively, and Dr. Monroe Sirken of the Center was the project officer. Mary Grace Kovar of the Center edited the final manuscript and worked with the Office of Information in preparing the report for publication.

The methodology for conducting follow-back surveys was initially developed by the Center for surveys linked to death records and subsequently the methodology was applied to surveys linked to birth records. The developmental work ultimately resulted in a continuing statistical program for conducting sample surveys linked to birth and death records. The objective of the vital record survey program has been to expand the scope of national natality and mortality statistics beyond the items of information on the vital records themselves.

There is also a need to expand the scope of national marriage statistics in order to measure trends and differentials in various phenomena associated with the family. This need was recognized in a report on "Needs for National Studies of Population Dynamics" prepared by the U.S. National Committee on Vital and Health Statistics, which states that "A marriage follow-back survey would

provide a great deal of the data that is currently lacking." It was also recognized in the report "Population and the American Future" prepared by the Commission on Population Growth and the American Future, which recommended that the National Center for Health Statistics should:

Undertake a crash program to qualify all States to participate in the marriage and divorce registration areas; to institute follow-back surveys for sample of marriages and divorces, such as the present natality and mortality follow-back surveys; to develop information sources on family formation and dissolution, and the fertility and other demographic consequences of family dynamics.

The results of the pilot study in North Carolina are encouraging with respect to developing procedures for conducting follow-back surveys linked to marriage records. The overall response rate including personal interview follow-up of nonrespondents to the mail survey was about 80 percent. This rate is lower than the response rate (89 percent) in the national surveys linked to records of legitimate births, and it is also lower than the response rate (90 percent) in the national surveys linked to death records. The adequacy of information reported in the marriage follow-back survey compares favorably with that reported in follow-back surveys linked to birth and death records.

In follow-back surveys, files of registered vital events serve as the sampling frames. Informants who provided the information recorded on registration certificates are generally the sources of information queried in the survey. For instance, the brides and grooms are the informants for items recorded on marriage certificates and they would be the sources on information in the follow-back surveys linked to marriage records. Fortunately, the names and addresses of both the bride and groom are recorded on the North Carolina marriage certificate. Although the addresses of both bride and groom are items of information recorded on the U.S. Standard Certificate of Marriage, these items do not appear on the marriage certificates being used in all States. In 12 States. neither the bride's nor groom's mailing address is on the marriage certificate. In 11 of the 12 States however, the local registrars are identified on the marriage certificates and it is possible

that the mailing addresses of the bride and groom could be obtained from them. A comparable problem arises in surveys linked to death records because the address of the death record informant is sometimes missing on the death certificate. The information is invariably obtained in the follow-back surveys linked to death records by writing to the funeral directors who are always identified on the death certificates.

Before planning a national program of surveys linked to marriage records, a feasibility study should be conducted to test procedures for getting the addresses of brides and grooms from local registrars in those States where the addresses do not appear on the marriage records. It would be appropriate to take that occasion to test additional procedures to enhance the survey response rates of brides and grooms.

Monroe G. Sirken

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COMPLETENESS AND QUALITY OF RESPONSE IN THE NORTH CAROLINA MARRIAGE FOLLOW-BACK SURVEY

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INTRODUCTION

Background

In 1956 the National Office of Vital Statistics, now a part of the National Center for Health Statistics, began a program of research on the methodology for mail follow-back studies linked to birth and death certificates. This led to the establishment of a National Mortality Survey in 1961 and a National Natality Survey in 1963,4 and both have become effective means of supplementing national birth and death statistics.

In 1967 NCHS, as part of its continuing methodology research program, contracted with the Department of Biostatistics at the University of North Carolina to conduct a pilot study of the feasibility of using mail follow-back surveys based on marriage records for collecting supplementary marriage statistics. The Research Triangle Institute's Division of Statistics subcontracted to trace 500 of the brides selected for the mail survey and conduct interviews. The North Carolina State Board of Health agreed to make the marriage records and punchcards available.

The 1968-69 North Carolina study was conducted in two phases: (1) a pretest for development of questionnaires (Spring 1968) and (2) a pilot survey to study response rates and to evaluate the quality of responses (November 1968-June 1969). In both phases samples of brides married in the State were selected from marriage

records filed with the North Carolina State Board of Health and were sent mail questionnaires. In the second phase—the pilot survey—samples of both respondent and nonrespondent brides living in six central North Carolina counties were traced and personally interviewed as part of the effort to evaluate the quality of data collected and to examine potential biases among mail nonrespondents.

A brief report of the pretest results has already been made. The present report is restricted to presentation of pilot survey results.

Prior to 1967 two other mail follow-back surveys linked to marriage records had been done. Pratt⁶ used the method in studying records of marriages which occurred in the Detroit metropolitan area during 1960. Coulter⁷ carried out a small pilot survey of recently married couples in North Carolina in 1966.

Objectives

The broad objective of the North Carolina study was to investigate the completeness and quality of data obtained in mail follow-back surveys of recently married brides. Specific objectives were to:

Estimate differences in response rates by:

Age, race, and previous marital status of the bride

Time duration since marriage

Questionnaire content

Certified and regular mail delivery.

^aMs. Wienir is now at Western Michigan State University.

Determine biases due to nonresponse.

Investigate the quality of data by:

Comparing the consistency of data from different sources

Examining the completeness of data for individual items in the mail questionnaire.

STUDY DESIGN

Questionnaires

Mail and interview questions were directed to the bride but included information about both the bride and the groom.

Four mail questionnaires were pretested in a five-county area of central North Carolina. Revisions were then made and the following three questionnaires were used in the pilot survey:

A basic version which included the same demographic content as the marriage record and additional questions on income, employment status, religion, residence prior to and after marriage, and household composition.

A family planning version which included the same content as the basic version plus a one-page series of questions on number of children desired, whether currently pregnant, when the next child was expected, and contraceptive use by the couple.

A *health care* version which included the same content as the basic version plus a one-page series of questions on current pregnancy status, prenatal care, hospital care since marriage, and health insurance coverage.

Facsimiles of the mail questionnaires are given in appendix $I_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$

The interview questionnaires were designed to collect the same information in essentially the same sequence as in the mail questionnaires. Additional items were added to the interview questionnaire for control purposes and to obtain reactions of the respondents to specific aspects of the mail survey.

The Study Population and Sample

The 48,162 marriage records filed with the North Carolina State Board of Health during the 12-month period February 1968-January 1969 constituted the pilot study population and sampling frame (table 1).

In five-sixths of all marriages the bride was white. In two-thirds of the marriages the bride was white, never married, and under 30 years of age. Only 4.4 percent of the brides were 45 years or older at the time of marriage and 90 percent of those had been previously married.

About one-fifth of the marriages occurred in Alamance, Durham, Forsyth, Guilford, Orange, or Wake Counties. Marriages in these six counties, all readily accessible to interviewers from the University of North Carolina and the Research Triangle Institute, were used to select the sample for personal interviews. Because all comparisons between mail and interview data are based on marriages in these counties, estimates for them are shown separately in the tables.

Geographic stratification was done to assure sufficient numbers of mail respondents and non-respondents for interview follow-up in the six-county area. Stratification by previous marital status, race, and age of bride was deemed essential because of differential mail response rates observed in other studies.

In the pretest, many older brides objected to the prenatal care and family planning questions, hence, in the pilot study, only the basic questionnaire was sent to brides 45 years of age or older. To simplify analysis and presentation of results, this report is restricted to results for brides under 45 years of age unless otherwise noted, thereby reducing the 32 strata in table 1 to 24 strata. Also due to small numbers, previously married brides under age 20 of races other than white are omitted in both geographic strata, further reducing the number of strata to 22 for this report.

The sample design called for equal numbers in each stratum within each area, 144 in each six-

county stratum, and 216 in each rest-of-State stratum and this required different sampling fractions.

A balanced design could not be achieved, however, because of the limited numbers in some strata. Effective sampling fractions in the 22 strata ranged from 100 percent downward to 1.4 percent. Deviations from the sample design tended to occur in those groups which subsequently had low response rates. As a result, somewhat tedious analytical procedures which are described in appendix II along with the sampling procedures were required.

Definitions of terms used in this report are given in appendix III.

Experimental Variables

Within each of the 22 demographic strata, four experimental variables were employed in further poststratification:

Four time durations.—3,5,7, or 9 months between marriage and first mail follow-up.

Three questionnaires.—Basic, family planning, and health care.

Two alternate addresses.—Either the bride's or the groom's as shown on the marriage license for first mail query.

Two types of mail.—Certified and regular for the second query to nonrespondents from the first mailing.

The time duration and version of the questionnaire to be sent to each bride were randomly assigned at time of sampling. Within each month of mailing, the choice of the bride's or groom's address for the first mailing was made by alternate assignment. The type of mail used for the second query was randomly assigned to each nonrespondent bride 15 days after the first query.

Mailing Procedures

Roughly 600 initial questionnaires were mailed on the first Monday of each month for 6 months, November 1968-April 1969. Response patterns for each month were similar and combined results are shown in the tables. Preliminary

analysis also indicated that mail response rates were similar for addresses of brides and grooms; hence this variable is not considered in the present report.

The first query was sent by first-class mail. Two weeks after the first mailing, all brides for whom no response had been received were randomly subdivided into two groups for the second mailing. To one group the second query was sent by certified mail and to the other it was sent by regular first-class mail. Two weeks later third queries were sent by regular first-class mail to all remaining nonrespondents regardless of what type mail had been used for the second query. A stamped, addressed return envelope was included in each query.

When the Post Office returned a query indicating that it could not be delivered, another first query was immediately mailed to the alternate address on the marriage record if one was shown. After one or two undelivered letters (Post Office returns), if there was no other address, the bride was classified as a nonrespondent.

Questionnaires returned with an indication that the sample bride did not wish to cooperate were classified as refusals and no further mail follow-up was made. For estimation purposes refusals and nonresponses are usually put together.

Completed or partially completed returned questionnaires were classified as responses. Every response was edited within 3 weeks of receipt for completeness and internal consistency and a single requery was sent to the respondent asking for clarification of items judged to be inadequate. Information from returned requeries was added to the original return and quality estimates are based on all data.

Interview Follow-Up

Six weeks after the first mail query each sample bride was classified as respondent, nonrespondent, or refusal. Five refusals which were especially strong were excluded, and then samples of mail respondents and nonrespondents and all other refusals for whom the most recent address was within the six-county area were taken for attempted follow-up and personal interview.

Sampling for interviews was done separately within the mail respondent and nonrespondent groups for each month of mailing. A sample of 84 brides (42 refusals and nonrespondents and 42 respondents) was to be taken from each of the 6 months' mail results—a total of 504. The total actually selected was 447 after excluding 43 brides 45 years or older. Of this total, 289 were found and interviewed, as shown in table A.

RESPONSE RATES

Unweighted Mail Response Rates and Amount Added by Interview

Unweighted mail response rates for the major study variables are shown in table 2. Overall first-mail response was about 25 percent and was significantly low for:

Brides 30-44 years of age

Brides of races other than white

Brides who had been previously married Brides married 9 months prior to the first

Brides married outside six central counties.

However, after two follow-up mailings, the cumulative response was increased to 59 percent for

those sent certified mail and to 52 percent for those sent regular mail at the second mailing.

Response for all mailings was significantly low for:

White brides among those sent certified mail Brides 30-44 years of age regardless of type of mail

Brides who had been previously married regardless of type of mail.

While overall refusal rates for the total mail survey were relatively low—3.9 percent for certified mail and 2.9 percent for regular mail, there is some indication in table 3 that certified mail served as a stimulus to refusal as well as to response. The second-mail refusal rate for certified mail was significantly higher than that for regular mail—3.4 percent versus 1.2 percent. Second-mail refusal rates were significantly higher for certified than for regular mail for white brides, for those 30-44 years of age, for those who had been previously married, and for brides who were sent the family planning questionnaire.

Response rates for the sample are low in relation to the weighted estimates described in the next section, but even so most of the sample differences remain significant after the weighting procedure. Before discussing weighted esti-

Table A. Number of brides and interview rates by results of the mail survey for six-county area: North Carolina Marriage Survey, 1968-69

Interview results	m 1	Mail	survey resul	lts		
Interview results	Total	Respondent	Non- respondent	Refusal		
	Number					
Total	447	233	173	41		
Interviewed	289 158	187 46	92 81	10 31		
	Percent					
Interviewed	65	80	53	24		

mates, however, it is appropriate to consider the increase in response rate due to personal interview of mail survey nonrespondents and refusals.

Detailed analysis of the number of sample persons added by interview is not possible because of the small numbers involved, only 173 nonrespondents and 41 refusals having been interviewed from the six-county area. For the unweighted six-county sample, interview follow-up increased the certified mail response from 59 to 77 percent and the regular mail response from 54 to 80 percent (table 3). The amounts added by interview, however, are not significantly different by type of second mailing. See appendix IV for a more detailed discussion of weighted results.

Although the differences are not statistically significant, there is some indication that the number added by interview may be negatively correlated with mail survey response rates.

Weighted Estimates of Mail Response Rates

Individual stratum estimates were weighted to obtain estimates of response rates which would have been expected with uniform sampling rates from brides married in North Carolina during February 1968-January 1969.

In discussing table 4, differences due to other variables which might influence summary results were not considered. For example, the age distributions of never married and previously married brides are very different, the latter being considerably older than the former. In the following sections differences in response due to the joint effect of some of the major variables are examined in somewhat more detail using weighted estimates.

The Joint Effects of Duration and Questionnaire

Response rates specific for time duration since marriage and the version of the question-naire which are shown in table 5 generally follow the trends seen in table 4. For each marriage duration the family planning questionnaire response rate for certified mail was lower and the difference between certified and regular mail was less than for the other two questionnaires. However, the certified mail response rates for the family planning questionnaire were signifi-

cantly lower than for the other questionnaires only at 7 months duration.

The Joint Effect of Questionnaires and Demographic Variables

Other weighted rates are shown in tables 6-8. Rates in these tables are interrelated and will be considered together in discussing several variables.

Marital status.—In all possible pairwise comparisons of response rates for brides who had not been married before with those who had been previously married within each type of mail group, all 15 rates in the first mailing, 13 of the 15 in certified mail, and 14 of the 15 in regular mail were higher for the brides who had not been married before (table 7). The three exceptions were among brides 30 years or older of races other than white. This, coupled with the summary rates in table 6 by kind of questionnaire and in table 8 by age, clearly shows that brides who had not been married before responded at significantly higher rates.

Color.—Pairwise comparisons of white brides with brides of other races within age, questionnaire, and type of mail groups (table 7) and the summary rates of tables 6 and 8 provide no conclusive evidence. Brides of races other than white tended to respond to the first query at lower rates than white brides but responded at higher rates to second and third queries, especially with certified mail.

Among brides under age 20 who had not been married before, brides of races other than white responded to the family planning questionnaire at significantly higher rates to both certified and regular mail than did white brides (table 7).

Rates for previously married brides age 30 or older were also generally higher for brides of races other than white than for white brides with both certified and regular mail, and a number of these differences were statistically significant (table 7). Brides of races other than white aged 30 or older who had not been married before responded at a significantly higher rate to certified mail than white brides of the same age and marital status (table 8).

Version of questionnaire.—For certified mail the overall poor response rates to the family plan-

ning questionnaire in relation to the other two questionnaires is due mainly to low response rates for white brides under age 20 who had not been married before and the heavy weight assigned to this group of brides in calculating weighted rates. As described above, the response rates of white brides to the family planning questionnaire were generally low.

Age at marriage.—Response rates for brides aged 30-44 were significantly lower than for brides under age 30 in most of the triple comparisons in tables 7 and 8. Except for white brides under 20 now married for the first time who received the family planning questionnaire, response rates generally were highest for brides under 20, slightly lower for those aged 20-29, and much lower in the 30-44 age group.

Type of mail.—The overall significantly higher response for certified mail over regular mail was due wholly to the better response to the basic and health care questionnaires in most color-marital status groups (table 6). For brides aged 20-29 who had not been married before, a group which counts heavily in calculating weighted rates, regular mail yielded slightly (but not significantly) higher response for the family planning questionnaire while certified mail response rates are considerably (but not significantly) higher for the two other questionnaires. Significantly lower response rates for the family planning questionnaire than for the other questionnaires with certified mail also appear for previously married white brides under age 20 and previously married brides of other races aged 20-29 (table 7). Among brides of other races aged 30-44 years, response for certified mail was significantly better than for regular mail for the basic questionnaires sent to those who had not been previously married and family planning and health care questionnaires sent to those who had been previously married.

Comparison of Respondents and Nonrespondents to Mail Survey From Interview Data

Comparisons of mail respondents with mail nonrespondents on the basis of personal interview responses provide evidence of some slight differences. Brides who responded to the mail survey tended to have more years of schooling than those who didn't respond (63 percent compared with 58 percent had finished high school). Brides who did not respond to the mail survey tended to live in nuclear rather than extended families (67 percent of the nonrespondents compared with 58 percent of the respondents). Sixty percent of those who responded compared with 51 percent of those who did not respond to the mail survey reported no move since marriage at time of interview follow-up.

QUALITY OF DATA

Overall quality of data for sample persons was examined using three measures:

- 1. Adequacy of returned mail questionnaires (excluding refusals and Post Office returns)
- Completeness of answers to individual items on mail questionnaire, i.e., those for which a codable answer was reported
- 3. Consistency (agreement) of information collected by different sources.

In general quality appears to be positively correlated with response rates.

Adequacy of Mail Questionnaires Before and After Requery

Mail responses were edited to determine whether all priority items had been completed. Those questionnaires with one or more priority items missing were classified as inadequate and were requeried in an attempt to add the missing data. Priority items for requery were: Date and State of birth, education, usual activity before and since marriage, employment, income, sources of income, residence before marriage, hospitalization insurance coverage of the bride and groom, and household composition after marriage.

The percentage of the questionnaires judged adequate before requery varied from 52 percent for the family planning questionnaire to 56 percent for the basic questionnaire. The requery effort increased the percentage judged adequate to 67 percent for the family planning questionnaire and 72 percent for the basic questionnaire (table 9). Only one inadequate section was required to classify the whole questionnaire as inadequate; hence the percentage of each section which was

classified as adequate was considerably higher than the percentage of questionnaires classified as adequate. Levels of completeness for the whole questionnaire and for sections common to all questionnaires were similar for the three questionnaires. Although differences between questionnaires are not significant, completeness in the common sections was consistently lower for the family planning than for the other two questionnaires.

Adequacy generally declined in successive mailings (table 9) and adequacy for certified and regular mail responses was very similar. Although adequacy levels before requery appear to be different for the three questionnaires, they are based upon relatively small numbers and hence are not statistically significant. Differences are less marked after requery. Adequacy was significantly higher for white brides than for those of other races (table 10).

Completeness of Response to Individual Items

Information on adequacy (or completeness) presented in the preceding section tend to obscure the relatively better levels of completeness for individual items on returned questionnaires. For individual items the only measure considered was completeness after requery. Because one purpose of the study was to examine quality, answers were not imputed for missing data.

Completeness for an individual item refers to the proportion with a specific codable answer after requery other than "no answer" or "unknown." Completeness levels for common items were so similar on each of the three questionnaires that results were pooled.

Generally item completeness was quite good for items common to all questionnaires. Completeness was below 90 percent in only three of 22 items for the bride and in seven of the 22 items for the groom (table B).

In general completeness was slightly better for the bride, who presumably completed the questionnaire, than for the groom. Completeness was much lower for items on details of the groom's previous marriages than for other items. However, items pertaining to age and employment have slightly higher completeness levels for the groom than for the bride. The single item below 90 per-

Table B. Distribution of items according to level of completeness for 22 items for bride, 22 for groom, and 8 for couple: North Carolina Marriage Survey, 1968-69

Percentage complete	Bride	Groom	Coup1e
Total	22	22	8
98.0 or more 95.0-97.9 90.0-94.9 85.0-89.9 80.0-84.9 Less than 80.0	7 3 9 3	2 6 7 3 2 2	2 3 2 - 1

cent for couples was the one pertaining to telephone number.

Completeness for five selected items is shown by major study variables in table 11. Except for the "work last week" question, the level of completeness declined with successive mailings, and there was little difference between certified mail and regular mail. Area differences except for "telephone number" were quite small. The level of completeness improved with increased education.

The level of completeness for family planning items was mixed (table 12). Questions about number of children desired by the bride, whether the bride can have children if she doesn't expect any, current pregnancy status, and use of contraception elicited a response of 90 percent or higher. Questions related to future plans—number of children actually expected, year next child expected, and future use of contraception by couples who had not previously used it—had completeness levels of 81 percent or lower. Health care and health insurance questions had levels of completeness of 95 percent or higher.

Consistency of Responses

Three potential sources for the same data made a number of consistency checks possible. Marriage records were available for both mail respondents (1,999) and nonrespondents (1,592).

and interview records were available for 187 mail respondents and 102 mail nonrespondents including 10 refusals.

Consistency checks were made between interview and mail survey and between vital record and mail survey. Comparison was restricted to those cases for which answers to the specific question were available in both records. The index of consistency is the percentage of cases in which the codes assigned agreed.

Consistency percentages are shown in table 13 for a number of items common to all questionnaires. In general, consistency was slightly but not significantly better for mail survey and interview than for mail survey and vital record data for items available on all three record sources. Consistency levels were good or very good except for individual years of education and income. Consistency levels for the small number of respondents to the family planning and health care questions were moderately good except for poor consistency on questions on "number of children you (or your husband) would like to have" and health insurance for hospital care or doctor. Consistency generally appeared to be positively correlated with completeness of response to individual items.

SUMMARY

Response rates and quality of response were studied in a follow-back survey of marriages recorded in North Carolina from February 1968 through January 1969. Three kinds of questionnaires each with five to six pages were used in a mail survey of about 3,600 brides under 45 years of age which was conducted during the period November 1968-March 1969. As many as three mailings were made to each bride in the survey and personal interviews of samples of respondents and nonrespondents to the mail survey were conducted to study the quality of the data.

Response rates were significantly higher for brides being married for the first time than for those who had been married before, for brides under age 30 than for those 30-44 years of age, and for brides to whom the second mailing was sent certified than for those to whom it was sent by regular mail. The basic and health care questionnaires yielded significantly higher total response rates than the family planning ques-

tionnaire when certified mail was used for the second mail. Total mail response rates were slightly lower for white brides than for those of other races even though first wave responses were considerably higher for white brides. First wave response rates were significantly higher at 5 months than at shorter or longer durations between marriage and first mail query, and there was a slightly, but not significantly, higher response rate at 5 months for all waves combined.

Interview follow-up of nonrespondents to the mail survey added an estimated 14-23 percent to mail response rates, yielding overall response rates between 75 and 85 percent. Interviews showed that nonrespondents tended to have slightly lower incomes and education levels than respondents but distributions were not significantly different.

Completeness of information on returned questionnaires was quite good for most items except income for the bride, income for the groom, and selected family planning items.

Completeness of information for certain items was significantly higher for responses to initial queries than for responses to second and third mailings and for white respondents than for respondents of other races. In general completeness appeared to vary in the same directions as response rates. Less effort was required to get the white brides to respond and, although their response rates generally were lower than for brides of other races, completeness of response was better.

Consistency indexes comparing vital records with mail survey data and mail survey data with interview data were quite good except for income, certain family planning items, and number of years of education.

Overall, response rates and quality of data indicate that it is feasible to use mail follow-back surveys linked to marriage records to collect supplementary data from brides for whom this was the first marriage. Poor response to the family planning questionnaire with certified mail follow-up and poor response of older brides and those who had been married before demonstrates the need for additional research for improved survey techniques or for subject matter which would stimulate response from these groups.

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Table 1. Distribution of brides in study population and sample by area and age, previous marital status, and color of bride: North Carolina Marriage Survey, 1968-69

	Six-county area					Rest of	f State	
Age of bride	Never married		Previously married		Never married		Previ marr	ously ied
	White	Other	White	Other	White	Other	White	Other
			Number	in st	ıdy popu	lation		
Under 20 years	2,921	751	62	5	15,572	2,416	255	8
20-29 years	2,862	938	607	72	11,002	2,433	2,416	181
30-44 years	104	86	452	100	397	268	1,866	291
45 years and over	22	17	307	80	123	52	1,279	227
		Per	cent of	total	study p	opulati	.on	
Under 20 years	6.1	1.6	0.1	0.0	32.3	5,0	0.5	0.0
20-29 years	5.9	1.9	1.3	0.1	22.8	5.0	5.0	0.4
30-44 years	0.2	0.2	0.9	0.2	0.8	0.5	3.9	0.6
45 years and over	0.0	0.0	0.6	0.2	0.2	0.1	2.6	0.5
			N	umber i	in sampl	.e		
Under 20 years	144	144	62	5	216	216	192	8
20-29 years	146	143	144	62	216	216	216	179
30-44 years	103	86	144	100	215	204	217	213
45 years and over	20	17	49	44	70	45	72	73

Table 2. Unweighted cumulative mail response rate per 100 brides by selected characteristics: North Carolina Marriage Survey, 1968-69

	<u> </u>			-		
	Total number	First	Certifie	d mail	Regular	mail
Characteristic	question- naires mailed	wave	Second wave	Third wave	Second wave	Third wave
		Re	sponse ra	te per 1	.00 brides	
Tota1	3,591	24.4	47.5	59.0	38.0	52.2
<u>Area</u>						
Six-county area Rest of State	1,283 2,308	27.4 22.8	46.4 48.2	59.0 59.1	40.7 36.5	54.3 51.0
Age of bride						
Under 20 years	987 1,322 1,282	30.0 26.5 18.1	53.0 50.0 40.9	65.8 60.6 52.2	46.7 39.0 30.4	60.3 54.1 44.1
Color of bride						
WhiteOther	2,015 1,576	25.9 22.6	46.2 49.2	56.0 62.8	37.8 38.4	50.9 54.0
Previous marital status of bride						
Never married Previously married	2,049 1,542	29.2 18.2	52.5 41.1	65.2 50.9	44.4 29.6	59.8 42.2
Time duration since marriage						
3 months 5 months 7 months 9 months	930 870 865 926	24.4 27.4 24.4 21.8	48.7 50.6 46.2 44.8	59.3 60.9 57.0 59.0	38.0 41.4 38.2 34.6	54.2 55.2 51.1 48.2
Version of questionnaire						
Basic Family planning Health care	1,201 1,196 1,194	25.7 24.1 23.5	47.3 46.3 49.1	60.0 57.1 60.0	38.8 36.9 39.3	53.6 51.2 52.7

Table 3. Unweighted mail response rate and increase due to interview per 100 brides by selected characteristics and type of second mail: Six-county area, North Carolina Marriage Survey, 1968-69

	Total, mail plus interview response			Amount added by interview				
Characteristic					Nonrespond- ents		Refusals	
	Certi- fied	Regu- lar	Certi- fied	Regu- lar	Certi- fied	Regu- lar	Certi- fied	Regu- lar
	,		Response	rate p	er 100 b	rides		
Total, six-county area	76.7	80.4	59.0	54.3	16.3	25.5	1.4	0.6
Age of bride								
Under 20 years	79.0	84.4	65.4	65.3	12.7	19.1	0.9	0.0
20-29 years	81.2	81.3	59.9	55.6	19.9	24.6	1.4	1.1
30-44 years	69.2	76.3	52.6	44.0	14.8	31.7	1.8	0.6
Color of bride								
White	73.8	79.2	59.0	54.2	12.4	24.4	2.4	0.6
Other	80.3	81.8	58.8	54.4	21.3	26.8	0.2	0.6
Previous marital status of bride								
Never married	82.6	84.9	66.2	63.0	15.3	20.9	1.1	1.0
Previously married	68.3	73.2	48.4	41.1	18.0	32.1	1.9	0.0
Time duration since marriage					:			
3 months	76.2	75.0	58.2	55.4	15.9	19.0	2.1	0.6
5 months	74.5	77.1	58.7	58.9	14.8	17.2	1.0	1.0
7 months	80.1	84.7	57.2	55.1	21.1	29.6	1.8	0.0
9 months	74.8	86.6	61.5	48.2	12.7	37.6	0.6	0.8
<u>Version of question-</u> <u>naire</u>								
Basic	70.6	80.9	54.5	57.2	14.8	23.7	1.3	0.0
Family planning	81.3	78.2	62.3	51.2	17.4	25.0	1.6	2.0
Health care	78.9	83.0	60.1	54.5	17.5	28.5	1.3	0.0

Table 4. Weighted mail response rate per 100 brides, by selected characteristics and type of second mail: North Carolina Marriage Survey, 1968-69

		All waves				
Characteristic	First wave	Certified mail	Regular mail	Difference certified- regular		
	Res	ponse rate	per 100 br	ides		
Total	30.3	66.6	59.0	+7.6		
<u>Area</u>						
Six-county area	34.3	66.6	61.2	+5.4		
Rest of State	29.3	66.7	58.4	+8.2		
Age of bride						
Under 20 years	30.7	68.6	62.2	+6.5		
20-29 years	32.1	68.3	58.7	+9.6		
30-44 years	16.6	44.9	40.4	+4.4		
Color of bride	:					
White	30.7	66.3	58.1	+8.2		
Other	27.8	68.5	63.2	+5.3		
Previous marital status of bride						
Never married	31.7	69.8	62.0	+7.8		
Previously married	18.0	47.0	39.7	+7.3		
Time duration since marriage						
3 months	27.8	69.0	58.5	+10.5		
5 months	34.4	70.0	63.5	+6.5		
7 months	31.5	64.7	58.5	+6.2		
9 months	27.3	62.9	55.4	+7.5		
Version of questionnaire						
Basic	32.1	73.0	60.4	+12.6		
Family planning	29.5	56.8	57.9	-1.1		
Health care	29.2	70.2	58.6	+11.6		

Table 5. Weighted mail response rate per 100 brides by time duration since marriage, type of second mail, and version of questionnaire: North Carolina Marriage Survey, 1968-69

		All waves				
Version of questionnaire and time duration since marriage	First wave	Certified mail	Regular mail	Difference certified- regular		
Basic questionnaire	Response rate					
3 months 5 months 7 months 9 months	30.9 36.0 31.6 30.0	70.3 79.6 75.7 66.2	67.4	+12.2 +18.8		
Family planning questionnaire 3 months 5 months 7 months 9 months	28.7 32.8 29.1 27.3	62.6 60.1 47.9 56.6	55.0 61.9 57.5 57.1	+7.7 -1.8 -9.6 -0.4		
Health care questionnaire						
3 months 5 months 7 months 9 months	23.8 34.8 33.7 24.6	74.0 70.3 70.4 65.9	58.6 61.1 61.1 53.6	+15.3 +9.2 +9.3 +12.3		

Table 6. Weighted mail response rate per 100 brides by color and previous marital status of bride, version of questionnaire, and type of second mail: North Carolina Marriage Survey, 1968-69

Color of bride and version of questionnaire	Nev	er marri	ed	Previously married		
		All waves			All waves	
	First wave	Certi- fied mail	Regu- lar mail	First wave	Certi- fied mail	Regu- lar mail
<u>White</u>		Respons	e rate	per 100	brides	
BasicFamily planning	35.2 31.7 31.9		58.9	14.6	45.1	
<u>Other</u>						
BasicFamily planning	29.5 32.7 24.8	72.2 67.7 68.9	59.9 73.2 61.6	¹ 20.4 ¹ 13.3 ¹ 14.1	¹ 58.8 ¹ 57.4 ¹ 52.1	¹ 51.9 ¹ 38.2 ¹ 43.0

¹Based on response experience for ages 20-44 years.

Table 7. Weighted mail response rate per 100 brides by color, age, and previous marital status of bride, version of questionnaire, and type of second mail: North Carolina Marriage Survey, 1968-69

		er marri	.ed	Previously married			
Age and color of bride and version of questionnaire		All w	aves		A11 w	All waves	
or quescromarre	First wave	Certi- fied mail	Regu- lar mail	First wave	Certi- fied mail	Regu- lar mail	
<u>UNDER 20 YEARS</u>		Respons	e rate	per 100	brides		
White							
Basic Family planning Health care	34.1 25.0 32.4	75.4 49.2 80.1	63.9 52.8 67.3	19.7	54.2 46.5 61.9	53.5 49.9 48.2	
<u>Other</u>	1					i	
Basic Family planning Health care	31.2 40.6 27.6	70.8 71.5 75.8	63.9 79.5 60.4	* * *	* * *	* * *	
20-29 YEARS							
<u>White</u>							
Basic Family planning Health care	37.2 40.8 31.6	84.9 66.6 66.5	63.1 67.4 54.9	24.3 13.9 21.5	46.0 49.9 54.3	49.7 32.0 37.6	
<u>Other</u>							
BasicFamily planning	28.4 26.6 23.4	73.9 65.5 64.0	57.6 70.0 64.7	21.7 19.2 17.9	58.2 40.5 45.9	51.1 43.1 53.3	
30-44 YEARS							
<u>White</u>							
BasicFamily planning	19.5 25.0 25.4	43.6 50.0 47.7	53.0 48.7 56.5	10.4 14.9 20.5	32.5 38.5 47.4	36.9 37.8 35.7	
<u>Other</u>							
BasicFamily planning	24.6 19.6 12.9	68.0 53.5 55.0	45.1 47.6 43.7	19.6 9.6 11.8	59.3 67.9 55.9	52.4 35.2 36.7	

Table 8. Weighted mail response rate per 100 brides by color, age, and previous marital status of bride, and type of second mail: North Carolina Marriage Survey, 1968-69

	Nev	ver marri	ed	Previously married		
Color and age of bride		All waves		First wave	All waves	
		Certi- fied	Regu- lar		Certi- fied	Regu- lar
		Respons	e rate	per 100	brides	
White	32.9	69.8	61.4	18.2	46.0	39.1
Under 20 years	30.5	68.2	61.4	22.7	54.2	50.6
20-29 years	36.5	72.7	61.7	19.9	50.1	39.7
30-44 years	23.3	47.1	52.7	15.3	39.5	36.8
Other	29.0	69.6	64.9	¹ 15.9	¹ 56.1	¹ 44.4
Under 20 years	33.1	72.7	67.9	*	*	*
20-29 years	26.1	67.8	64.1	19.6	48.2	49.1
30-44 years	19.0	58.9	45.5	13.7	61.0	41.4

 $^{^{1}\}mathrm{Based}$ on response experience for ages 20-44 years.

Table 9. Adequacy of mail questionnaire by wave of response, type of second mail, and version of questionnaire: North Carolina Marriage Survey, 1968-69

Mayo of manage and turns of sound and	A11	Version	of questi	onnaire			
Wave of response and type of second mail	question- naires	Basic	Family planning	Health care			
		Number of r	esponses				
Total	1,999	683	648	668			
First wave	878	309	288	281			
Certified: Second wave Third wave	421 209	131 77	135 66	155 66			
Regular: Second wave Third wave	240 251	78 88	75 84	87 79			
	Percent	of questio before r	nnaires adequate equery				
Total	53.8	55.8	51.8	53.6			
First wave	57.8	58.3	58.0	57.3			
Certified: Second wave Third wave	52.5 46.4	60.3 40.3	48.1 45.5	49.7 54.5			
Regular: Second wave Third wave	52.1 49.4	65.4 45.5	46.7 46.4	44.8 57.0			
	Percent	of question after re	nnaires ade query	quate			
Tota1	70.1	72.3	67.0	71.0			
First wave	75.0	75.1	70.8	79.4			
Certified: Second wave Third wave	69.1 63.2	77.1 61.0	65.2 60.6	65.8 68.2			
Regular: Second wave Third wave	65.0 65.3	74.4 63.6	65.3 63.1	56.3 69.6			

Table 10. Adequacy of mail questionnaires by wave of response, type of second mail, and color of bride: North Carolina Marriage Survey, 1968-69

Wave of response and type of second mail	Numbe respo		naire a	question- dequate requery	Percent of question- naire adequate after requery				
	White	Other	White	Other	White	Other			
First wave	522	356	66.9	44.7	82.4	64.3			
Certified: Second wave Third wave	206 99	215 110	62.6 56.6	42.8 37.3	79.6 72.7	59 . 1 54 . 5			
Regular: Second wave Third wave	119 131	121 120	61.3	43.0 36.7	77.3 72.5	52.9 57.5			

Table 11. Percent of selected items completed on the mail questionnaire, by wave of response, type of second query, version of questionnaire, and selected characteristics of the bride: North Carolina Marriage Survey, 1968-69

	-			It	em		
Study variable	Total mail re-	Work we	last ek	Number of months at address	Day of	Addi- tional	Tele-
	spond- ents	Bride	Groom	before marriage	DITCH	children not in house-	phone number
		Bilde	GLOOM	Groom	Bride	hold	
				Percent			
Tota1	1,999	89.3	88.0	85.2	91.7	90.8	80.2
Wave of response and type of mail							
First wave	878	88.4	87.9	88.5	94.3	92.5	81.0
Certified: Second wave Third wave	421 209	91.0 88.0	88.4 87.1	84.6 80.4	92 . 2 84 . 7	91.4 88.0	80.3 78.9
Regular: Second wave Third wave	240 251	92.5 88.0	89.2 86.9	84.2 80.1	90.8 88.4	90.8 86.1	82.5 76.5
Area	Ì						
Six-county area	727 1,272	89.8 89.0	87.6 88.1	84.9 85.4	91.9 91.6	92.0 90.0	85.0 77.5
Color of bride							
WhiteOther	1,077 922	92.5 85.7	89.7 85.9	89.4 80.4	94.7 88.2	93.9 87.2	86.5 72.9
Age of bride					į		
Under 20 years	623 758 618	90.8 90.8 86.0	90.1 87.3 86.5	85.7 87.1 82.5	93.9 93.3 87.5	92.7 92.2 87.0	78.7 81.8 79.9
Version of questionnaire							
BasicFamily planningHealth care	683 648 668	89.4 89.4 89.5	89.1 86.1 88.5	85.0 85.5 85.2	91.5 90.8 92.8	89.3 90.9 92.2	81.2 80.4 79.0
Education of bride1							
9 years or less	217 306 576 405	79.2 86.6 92.2 94.6	89.4 88.5 87.7 88.4	80.2 81.4 87.0 90.1	81.6 86.3 94.8 95.3	87.6 89.2 91.5 93.8	69.1 69.6 81.4 91.9

 $^{^{1}\}mathrm{Based}$ upon 1,504 brides because education was not available 495 vital records.

Table 12. Percent of selected items completed on family planning and health care questionnaires: North Carolina Marriage Survey, 1968-69

Cloimatics, Noten datatina instituge 5-1-1-5; 1		
Version of questionnaire and question	Number of respondents for whom question applicable	Percent completed
Family planning		
Has the bride ever thought about number of children she would like to have?	648	83.8
Number of children desired by: Bride	462 462	98.9 88.5
Number of children bride actually expects	648	80.7
Does the bride think she can have children if none expected?	113	96.5
Is the bride pregnant?	589	93.9
Year next child expected if bride not pregnant and thinks she can have children	408	76.5
Has bride or groom ever used methods to keep from having children?	648	91.0
Specific methods of contraception used	358	100.0
Is future contraception by bride or groom anticipated if neither has used it?	230	70.4
Health care		
Is the bride now expecting a baby?	668	98.7
Has the bride had a miscarriage since the present marriage?	668	96.1
Has the bride been in the hospital overnight since the present marriage?	668	97.2
Do the bride and groom have insurance for payment of hospital bills	668	97.5
Does any available insurance for hospital bills provide for costs of care for delivery of a baby?	462	94.8
Do the bride and groom have insurance to pay for bills of physicians?	668	94.8
Does any available insurance for bills of physicians provide for expenses of delivering a baby?	400	96.5

Table 13. Percent of agreement of information obtained for selected items on all mail questionnaires with corresponding data on the vital record and the interview questionnaire: North Carolina Marriage Survey, 1968-69

		rvey and record	Mail survey and interview				
Item	Total, item reported on both sources	Percent agreement	Total, item reported on both sources	Percent agreement			
Previous marital status:	1,946	98.4	184	98.9			
Groom	1,923	97.8	184	98.9			
Number of times married:	1,934	97.3	181	98.9			
Groom	1,912	96.2	182	96.7			
How first marriage ended (for previously married):							
Bride	666	98.0	64	96.9			
Groom	392	96.7	41	100.0			
State of birth: Bride	1,984	95.0	181	98.9			
Groom	1,880	90.1	177	96.5			
State of residence before marriage: Bride	1,984	95.0	186	98.9			
Groom	1,880	90.1	172	96.5			
Year of birth of bride	1,826	95.7	166	97.6			
Education of bride ¹	1,495	72.0	185	77.8			
Income: 1 Bride	• • •	•••	173	69.4			
Groom			168	60.1			
Year of birth of child delivered since marriage ¹	•••		180	91.1			

¹Not adjusted for time delay between mail survey and interview.

APPENDIX I FORMS USED IN THE STUDY

LICENSE AND CERTIFICATE OF MARRIAGE - 1968

State of North Carolina

So. RACE—GROOM NUMBER OF THIS MARRIAGE FIRST, SECOND, ETC. (SPECIFY) 8. BRIDE—NAME FIRST MIDDLE LAST MARRIAGE ENDED BY Death, Divorce, Or Annulment (Specify) MONTH YEAR (0,1,2,3,4,or 8) 10. BRIDE—NAME FIRST MIDDLE LAST MARRIAGE ENDED BY MONTH YEAR (1,1,2,3,4,or 8) 11a. RESIDENCE—STATE COUNTY 12b. 11c. STATE OF BIRTH (If Not In U.S.A., Name Country) 12c. STATE OF BIRTH (If Not In U.S.A., Name Country) 15a. RACE—BRIDE RACE—BRIDE RACE—BRIDE RACE—BRIDE RACE—BRIDE REST, SECOND, ETC. (SPECIFY) LAST MARRIAGE ENDED BY LAST MARRIAGE ENDED BY LAST MARRIAGE ENDED BY Death, Divorce, or Annulment (Specify) LAST MARRIAGE ENDED BY Death, Divorce, or Annulment (Specify) LAST MARRIAGE ENDED BY Death, Divorce, or Annulment (Specify) RACE—PARENT'S ADDRESS 21. DATE GROOM—PARENT'S ADDRESS 22. DATE I SENIED PROCESSITANT) TO STATE OF BIRTH (IT Not In U.S.A., norm) 19b. 20. BRIDE—PARENT'S ADDRESS 21. DATE I SENIED PROCOM—PARENT'S ADDRESS 22. DATE I SENIED PROCOMPARENT'S ADDRESS 1 SENIED—PARENT'S ADDRESS 21. DATE I SSUED REGISTER OF DEEDS (DEPUTY/ASSISTANT) TO STATE I CERTIFY THAT THE ABOVE MARRIAGE PLOOP AND	ļ	IAME	FIRST			WIDDLE			LAST	
2b. 2c. [1 Number of Pierri (Month, Doy, Yeor) AGE 2c. [2c. [1 Not In U.S.A., Mone Country) 3. [2c. [3] Adv. Mone Country) 4c. [4c. [4c.] Adv. Mone Country) 4c. [4c.] Adv. Mone Country 4c. [4c.] Adv. Mone Country 5c. [4c.] Adv. Mone Country 5c. [4c.] MOTHER-MAIDEN NAME 5	1. RESIDENCE-	STATE	COUNT	Υ	1	CITY, TOWN,	OR LOCATI	ON	111	SIDE CITY LIMI
STREET AND NUMBER STATE OF BIRTH (If Not In U.S.A., Name Country) So. RACE-GROOM PIRST, SECOND, PIRST, SECO	20		2h.		1.	2c.			I	
STATE OF BIRTH (IF Not In U.S.A., Name Country) So. RACE—GROOM PIRST, SECOND, ETC. (SPECIFY) BRIDE—NAME FIRST MIDDLE LAST MARRIAGE ENDED BY Death, Divorce, Or Annulment (Specify) MOTHER—MAIDEN NAME STATE OF BIRTH (IF Not In U.S.A., Name Country) BRIDE—NAME FIRST MIDDLE LAST MARRIAGE ENDED BY Death, Divorce, Or Annulment (Specify) BRIDE—NAME FIRST MIDDLE LAST MARRIAGE ENDED BY Death, Divorce, Or Annulment (Specify) BRIDE—NAME FIRST MIDDLE LAST MARRIAGE ENDED BY DEATH (IF Not In U.S.A., Name Country) 11b. STATE OF BIRTH (IF Not In U.S.A., Name Country) 12c. FATHER—NAME STATE OF BIRTH (IF Not In U.S.A., Name Country) 15d. RACE—BRIDE RESIDENCE—STATE STATE OF BIRTH (IF Not In U.S.A., Name Country) 15d. RACE—BRIDE FIRST, SECOND, BRIDE—NAME STATE OF BIRTH (IF Not In U.S.A., Name Country) 15d. LAST MARRIAGE ENDED BY DEATH (IF Not In U.S.A., Name Country) 15d. LAST MARRIAGE ENDED BY DEATH (IF Not In U.S.A., Name Country) 15d. RACE—BRIDE FIRST, SECOND, BRIDE—SECONDERS BRIDE—PARENT'S ADDRESS BRIDE—PARENT'S A	STREET AND	NUMBER	, 20.			IRTH (If Not I		DATE OF BIRT		
STATE OF BIRTH (If Not in U.S.A., Name Country) 150. RACE—BRIDE FIRST MIDDLE FIRST MIDDLE LAST MARRIAGE LAST MARRIAGE FIRST MIDDLE LAST MARRIAGE FIRST MAIDEN NAME (If Different) Jad.	2e.							40.		4b.
RACE—GROOM NUMBER OF THIS MARRIAGE LAST MANDIA LAST MARRIAGE LAST MONTH YEAR (0,1,2,3,4, or 8) (1,2,3, or 4) (1,2,3,4, or 5) (1,2,3,4, or 6) (1,2,3,4,	FATHER-NA	NE		STATE OF BIRTH (If U.S.A., Nar		MOTHER-MAI	DEN NAME			
RACE—GROOM FIRST, SECOND, ETC. (SPECIFY) Decht, Divorce, Or Annulment (Specify) Decht, Divorce,	5a.							FRUCATION ER		ADE COUNTERE
REGISTER OF DEEDS RETURNED TO REGISTER OF DEEDS:	RACE-GROO	M FIRST, SECON	IIS MARRIAGE D,	LAST MARRIAGI	E ENDED BY	1 D/	ATE			
DRIDE—NAME FIRST MIDDLE LAST MAIDEN NAME (If Different) 110. RESIDENCE—STATE COUNTY CITY, TOWN, OR LOCATION 110. STREET AND NUMBER 12b. 12c. 12d. STATE OF BIRTH (If Nor In U.S.A., Name Country) 12d. STATE OF BIRTH (If Nor In U.S.A., Name Country) 12d. STATE OF BIRTH (If Nor In U.S.A., Name Country) 15d. 14d. 14d. 14d. 14d. 14d. 14d. 16b. STATE OF BIRTH (If Nor In U.S.A., Name Country) 15d. 16b. RACE—BRIDE PIRST, SECOND, ETC. (SPECIRY) 15b. 16b. LAST MARRIAGE ENDED BY 16d. 16d. 16d. 16d. 16d. 16d. 16d. 16d.		ETC. (SPECIFY)		Annulment (Spe				(1,2,3, or 4)	(1,2,3,4, or 5)
11a. RESIDENCE—STATE 12b. 12c. STREET AND NUMBER 12c. STATE OF BIRTH (If Not in U.S.A., Name Country) 15c. STATE OF BIRTH (If Not in U.S.A., Name Country) 15c. STATE OF BIRTH (If Not in U.S.A., Name Country) 15c. RACE—BRIDE RACE—BRIDE NUMBER OF THIS MARRIAGE FIRST, SECOND, FIRST, SECON	>7.		CT						NAME	(Id Different)
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FORM V5-80 REV. 1/1/68 1/68-100M

LICENSE AND CERTIFICATE OF MARRIAGE -1969

State of North Carolina

CREDION FIRST		LICENSE NUMBER					OUNTY							
STREET AND NUMBER STATE OF BIRTH ADDRESS (IF Living) 4. ADDRESS (IF Living) 5. S.		GROOM-NAME		FIRST		***************************************			MIDDLE			LAST		
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20. 26.		RESIDENCE-STATE		COUNTY				CITY	TOWN, OR LOC	ATION				
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22 STATE OF BIRTH ADDRESS (IF Living)	GROOM		!	<u></u>					TY & STATE)		DATE OF BIRTH (Month, Day, Year		AGE
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AS. ## ACC GROOM NUMBER OF THIS MARRIADE LAST MARRIADE														
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FORM VS-80	o forfaiture	of \$200.00 to anyone who	inier, or Deeds who issued I	ne license. Fo	ailure	to do so subject	person cel	prating th	e marriage to	L				
	a initiatinta		sues for the same.							DECC	IVED BY.			
REV. 1/1/69			sues for the same.							RECE	IVED BY:			

COVER LETTER FOR BASIC QUESTIONNAIRE (TEXT MODIFIED SLIGHTLY FOR OTHER VERSIONS)



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE WASHINGTON, D.C. 20201

NATIONAL CENTER FOR HEALTH STATISTICS

This questionnaire is being sent out by the University of North Carolina to help the U. S. Public Health Service gather certain new facts about couples recently married in North Carolina. The survey has been approved by the Director of the North Carolina State Board of Health and is paid for by the U. S. Public Health Service.

Your name was selected from the marriage certificates recently filed in North Carolina in such a way that answers from a relatively few recent brides would give an accurate cross-section for the whole State. But since only one out of every 10 brides is chosen, it is especially important that we get a reply from each particular person who received a questionnaire.

Some of the questions we are asking are quite personal and your reply to these or any of the questions is entirely voluntary. However, we would like to point out two things. First, the replies will be used only for statistics, i.e. absolutely no use will be made of your reply except to put it together with other replies. Second, the information is really very badly needed and the only person who can give it to us is you. Some of the purposes for which it is to be used are listed below.

- Learning where and with whom people live after they get married, a
 matter of interest in planning schools, housing, highways, and health
 and recreational facilities.
- Learning about the background of the married couples, including their ages, education, and religious preferences, in order to plan better health and community programs.

Let me repeat that all information you provide about yourself, your husband, or any member of your family will be kept completely confidential, as we are bound to do by official regulations of the U. S. Public Health Service. It will not be disclosed to any person or other government agency except for those working on the study, and will be used by them for statistical purposes only.

Your cooperation in providing the U. S. Public Health Service with the requested information and in avoiding further and costlier follow-up procedures is greatly appreciated. By filling out and returning this questionnaire in the enclosed envelope you will be helping greatly to make this survey a success, and your government will thereby be better able to serve your needs and those of your family.

Sincerely yours,

Theodore D. Woolsey
Director

File	Number		

A-T

ITEMS COMMON TO ALL MAIL QUESTIONNAIRES

CONFIDENTIAL - All information which would permit identification of an individual, or of an establishment, will be held confidential, will be used only by persons engaged in and for the purpose of the survey, and will be protected against disclosure in accordance with provisions of 22FR.

NORTH CAROLINA MARRIAGE SURVEY

2. How (in Non Pub reg	re were your born? City County State or Foreign many brothers and sisters do you have? clude those who are now dead) Numb t is the highest grade (or year) of school have finished? (Circle highest grade COMPLETED) e 0 lic or other { 1 2 3 4 5 year school { 7 8 9 10 11 } }	g. This	mation about you such as where you were born, whether form was designed to be answered by the bride. 6. What was your usual activity just before your present marriage? Working Attending School Housework Other (Specify) 7. What is your usual activity since marriage? Working Housewife
2. How (in 3. What you Non Pub reg	City County State or Foreign many brothers and sisters do you have? clude those who are now dead) Numb t is the highest grade (or year) of schoo have finished? (Circle highest grade COMPLETED) e 0 lic or other { 1 2 3 4 5 ular school { 7 8 9 10 11 }	er	present marriage? Working Attending School Housework Other (Specify) 7. What is your usual activity since marriage? Working
you Non Pub reg	have finished? (Circle highest grade,COMPLETED) e 0 lic or other { 1 2 3 4 5 ular school { 7 8 9 10 11	l that	Working
Oth	lege or University 1 2 3 4 er (Specify)	6 1.2 5+	Attending School Other (Specify) 8. a. Did you work at any time last week? Yes b. Please check how many hours you
4. Wha	t is your religion? Protestant (Specify denomination) Roman Catholic Jewish None Other religion (Specify):		worked: 35 or more 15 to 34 hours less than 15 hours c. If you did not work last week, do you have a job? Yes No
b. 1	Have you ever been married before? Yes No Please skip to question 6 above down many times were you married before this present marriage? 1 2 3 or more what was the date of your first marriage? Year	is	d. If you did not work last week, were you looking for a job or on lay off Yes No 9. What is your own present annual total personal incom None \$5,000 - \$6,999 Under \$1,000 \$7,000 - \$8,999 \$1,000 - \$2,999 \$9,000 or more \$3,000 - \$4,999
e. I	What was the date that your first marriage ended? Year Did that first marriage end by death, divor annulment? Death Divorce or annulment did you have by that firmarriage? Number Go to question	orce ment est	10. From which of the following sources do you receive income? (Check as many as necessary) Wages, Salary (pay check) Parental help Military allowance for dependents Other (Specify)

Expiration date Dec. 1969

PART II. INFORMATION ABOUT YOUR HUSBAND

In this part, we are interested in obtaining information about your husband such as his birthplace, employment, and marital history. If you are now separated from your husband, you may skip this part. 6. What was your husband's usual activity just before 1. Where was your husband born? your present marriage? City State or Foreign Country County Working Attending School 2. How many brothers and sisters does your husband Armed Forces (Army, Navy, etc.) have? (include those who are now dead) Other (Specify) _ Number What is the highest grade (or year) of school that 7. What is your husband's usual activity since marriage? your husband has finished? Working (Circle highest grade COMPLETED) Attending School Public or other (regular school (1. 4 5 6 Armed Forces (Army, Navy, etc.) 9 10 11 12 Other (Specify) ш 5+ College or University 8. a. Did your husband work at any time last week? Other (Specify) b. Please check how many hours he 4. What is your husband's religion? worked: 35 or more Protestant (Specify denomination) 15 to 34 hours Roman Catholic less than 15 hours Jewish c. If your husband did not work last None week, does he have a job? Other religion (Specify): 5. a. Has your husband ever been married before? d. If he did not work last week, was he looking for a job or on lay off? Please skip to No → question 6 above No. Yes b. How many times was your husband married before 9. What is your husband's present annual total income? this present marriage? T 2 3 or more None \$5,000 - \$6,999 c. What was the date of your husband's first \$7,000 - \$8,999 Under \$1,000 marriage? \$1,000 - \$2,999 \$9,000 or more \$3,000 - \$4,999 Year 10. From which of the following sources does your d. What was the date that your husband's first husband receive income? marriage ended? Wages, Salary (pay check) Year Parental help e. Did his first marriage end by death, divorce or Other (Specify) annulment? Divorce or annulment Death f. How many children did your husband have by that first marriage? Go to question 6 Number (GO ON TO PART III) (Page 2)

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PART III. MIGRATION

In this section we would like to obtain information about the places where you and your husband lived before you got married and since you have been married. YOURSELF YOUR HUSBAND 1. a. Just before you were married, where did you 2. a. Just before your husband was married, where did live? (home residence not P.O. Box) he live? (home residence not P.O. Box) Street Street City County State or Foreign Country City County State or Foreign Country b. How long did you live there? b. How long did he live there? Months Years Years c. With whom did you live? c. With whom did he live? Alone With other relative(s) Alone With other relative(s) With your parent(s) With other person(s) With his parent(s) With other person(s) With your children Go to question 2 With his children 3. Just after your marriage, with whom did you and your husband live? With other relative(s) With your parent(s) With his parent(s) Alone, just the two of you Other (Specify) With your or your husband's children . 4. Please list below each of the addresses at which you and your husband have lived since your marriage. Street or RFD City and County State or Foreign Country Present address (If moved since marriage) Address before that Address before that Address before that Address before that (Page 3)

(GO ON TO NEXT PAGE)

PART IV. INFORMATION ABOUT YOUR HOUSEHOLD

n this	part,	information	is	asked	about	all	the	persons	currently	living	in	your	household.
--------	-------	-------------	----	-------	-------	-----	-----	---------	-----------	--------	----	------	------------

ı.	List	below	everyo	ne wi	no is	livi	ng ir	your	ho	ouseho	old	at	the	present	tin	ne.	Ιn	addit	ion	to :	yours	elf,	, be	sure	to
	list	your	husband	(if	he 1	.ives	at ho	me),	as	well	as	you	r cl	nildren	(if	any)	, c	ther	rela	tiv	es an	ıd no	nrel	ative	28
	livir	ng wit	h you.	Do r	not i	.nclud	e per	sons	vis	iting	у ус	ou t	emp	orarily.											

list your husband (if he lives at hom living with you. Do <u>not</u> include pers			ir any), other	relatives and nonrelatives
For each per	son, provide the i	rformation r	equested below	:
Name_	Relationship to	Yourself	Date of Birth	Marital Status
Enter your name on the first line; enter the names of all other persons who live with you on the following lines: (First name)(Middle initial)(Last name)	Relationship to yo daughter, son, far nephew, stepson daughter, lodge	ther-in-law, , adopted	(Month-Day- Year)	Specify one of the followin Single (never married), Married, Separated, Widowed Divorced, or Annulled
	Yourse	L£		

			<u></u>	ļ
[16	more space is need	ded, please	continue on th	e back of pamphlet)
2. Who is the head of your household? Your husband			r husband pres on active dut	sently serving in the Armed
Another person → No	ame of head]	es	<u> </u>
4. a. Have you ever had any babies or ch		to those li	sted above?	
Yes - b. Please give the for information for early who is not living	ich child Na	me of child ame) (last r	1 8671	th and Year Is the child still birth living?
now.				Yes No
No → Go to the next page				Yes No
				Yes No
	(16 mc	re space is	needed, please	continue on back of pamphle

(GO ON TO NEXT PAGE)

(Page 4)

PART V PERSON COMPLETING THIS FORM

Street or RFD	
City	
State or Foreign Country	
DAT	TE OF COMPLETION
	City State or Foreign Country

(Page 5)

HEALTH CARE QUESTIONNAIRE ONLY

PART V. HEALTH CARE

In this section and the next section, we are particularly interested in finding out about any recent or future medical care for pregnancy.
1. Are you now expecting a baby?
☐ Yes ☐ No → Skip to question 3
2. a. Have you ever received medical care during this pregnancy?
b. Who have you seen about care for this pregnancy?
Physician in general practice Nurse
Physician specializing in delivering Midwife
babies (Obstetrician) Other (Specify)
c. If you have received care for this pregnancy from a physician, where did you go for this care?
Doctor's private office Health Department
Hospital out-patient clinic Other (Specify)
d. If you have received care from a physician, during what month of your pregnancy did you first see him?
Month of Pregnancy
e. If you have NOT yet received medical care for this pregnancy, do you expect to receive care?
f. During what month of your pregnancy do you plan to receive medical care?
No → \ Month of Pregnancy g. Where do you plan to receive medical care for this pregnancy?
g. Where do you plan to receive medical care for this pregnancy?
Doctor's private office Health Department
Hospital out-patient clinic Other (Specify)
3. a: Have you lost a baby because of a miscarriage since your present marriage?
\square Yes \square No \longrightarrow Go to question 4
b. If so, please give the number of months you had been pregnant for each miscarriage.
First Miscarriage Second Miscarriage Month of Pregnancy
4. a. Have you been in the hospital overnight since you were married? Yes Go to question 5
$oldsymbol{ar{ar{ar{ar{ar{ar{ar{ar{ar{ar$
b. If so, what was wrong? (Briefly describe)
5. a. Do you and your husband have health insurance to pay for all or part of a hospital bill?
☐ Yes ☐ No → Go to question 6
b. If yes, would this insurance pay for all or part of the cost of care for the delivery of a baby?
Yes No
6. E. Do you and your husband have health insurance to pay for all or part of a doctor's bill?
☐ Yes ☐ No → Go to next page
). If yes, would this insurance pay for all or part of a doctor's bill for delivery of a baby?
Yes No
(Page 5) (GO ON TO PART VI)

PART VI. PERSON COMPLETING THIS FORM

FULL NAME				_
ADDRESS				_
		Street or RFD		
		City		_
		State or Foreign Country		
TELEPHONE	NUMBER		DATE OF COMPLETION	_

NOTES AND COMMENTS

(Page 6)

FAMILY PLANNING QUESTIONNAIRE ONLY

PART V. FAMILY PLANNING

These quesa	ions relate to your plans for having children.
	you ever thought about how many children ould like to have in the future? 2. a. How many children do you think you will actually have in the future?
☐ <i>7</i>	b. How many children would you like to have? Number b. If NONE, do you think you are able to have children?
	c. How many children would your Yes No - Ship to question husband like to have?
1	$Go \longrightarrow Go$ to question 2
3. a. Are 3	ou pregnant now?
	es> b. When do you expect your baby? Month Year
<u> </u>	c. When do you think you will have a baby?
	<u> </u>
	1971
	1972 or later
	you or your husband ever used any ds to keep you from having children? Rubber, condom, safe
☐ z	es - b. Please check each method you
	or your husband have used to keep you from having children Jelly or cream
N	c. Do you think that you or your husband will use some methods Douche
	to keep you from having children? Yes d. Please check each method you think Oral contraceptive (the pill, Enovid, Ovulin, etc.)
	you or your husband Coil, loop, intrauterine device (IUD) will use to keep you from having children. Coil, loop, intrauterine device (IUD) Sterilization (tying tubes, etc.)
	No → Go to Part VI on next page Withdrawal
	Other(Specify)
	(Specify)
	PART VI. PERSON COMPLETING THIS FORM
FULL NAME	
ADDRESS _	
	Street or RFD
-	City
-	State or Foreign Country
TELEPHONE N	UMBER DATE OF COMPLETION
	NOTES AND COMMENTS

APPENDIX II

SAMPLING PROCEDURES, METHODS OF ESTIMATION, AND STANDARD ERRORS

Sampling Procedures

About 97 percent of marriage licenses issued in North Carolina are filed in the State Board of Health within 10 days after the end of the calendar month in which the marriage occurred. Two months after the month of marriage the records have been processed and punched cards are available for use in sampling as well as other processing of marriage data.

Sampling for the mail survey was done separately for each principal month of marriage, i.e., using all licenses filed for a given month including roughly 3 percent which had occurred in an earlier month but were filed with the Register of Deeds during that calendar month. Table 1 shows the study population and the combined sample for the whole study period. In this appendix the details of the sampling procedure and the way the combined sample was obtained will be illustrated using data for the principal month of June 1968 marriage records.

For each principal month of marriage the tabulating unit of the North Carolina State Board of Health

sorted the punched cards into the strata shown in table I. counted them, and prepared a listing in State file number sequence within each stratum. The number of marriages required by the sample design b was selected at random within each stratum. This number was either six, 12, or 18 marriages for the six-county area (Alamance, Durham, Guilford, Orange, Wake, and Forsyth Counties) or nine, 18, or 27 marriages for the rest of the State, depending on whether one two. or three time duration subsamples were to be taken from that month's records. Table II shows how time duration subsamples were chosen from each principal month of marriage, e.g., February, March, December, and January each contributed only one subsample. while April, May, October, and November contributed two subsamples each and the remainder, June, July, August, and September, contributed three subsamples each.

Table I. Stratification of brides by previous marital status, race, and age of bride, and area:

North Carolina Study Population, June 1968

	s	ix-coun	ty area	ı	Rest of State			
Age of bride		Never married		Previously married		Never married		ously ied
	White	Other	White	Other	White	Other	White	Other
Tota1	902	196	136	30	3,870	592	599	65
Under 20 years	391 497 13 1	65 123 7 1	7 59 44 26	¹ 1 ¹ 4 18 7	2,156 1,657 44 13	265 292 31 4	26 235 192 146	1 116 26 23

¹Because of small frequencies for brides other than white, previously married brides under 20 years of age and in age groups under 30 years of age were combined to form one stratum for sampling.

bNote that the required numbers for women 45 years of age and over were a third of those for the other ages because they were sent only one of the three questionnaires.

Table II. Time duration in months since marriage for subsamples by principal month of marriage and month of mailing: North Carolina Marriage Survey, 1968-69

	Month of mailing								
Principal month of marriage	19	168							
	November	December	January	February	March	April			
<u>1968</u>	Number of months								
February	9 7 5 3 -	9 - 7 - 5 - 3	- 9 - 7 - 5 - 3	- - 9 - 7 - 5	9 7 5 3	- - 9 - 7			
1969 January	_	-	-	_	-	3			

Table III. Number of sample brides by time duration since marriage, month of mailing, area, and marital status and race of bride: North Carolina Marriage Survey, June 1968-69

Time duration since marriage, month of mailing, and age at marriage of bride		ix-coun	ity area	<u> </u>	Rest of State			
		Never married		Previously married		Never married		Previously married
	White	Other	White	Other	White	Other	White	Other
5 MONTHS SINCE MARRIAGE November 1968 mailing Under 20 years	6 6 4 1	6 6 2 -	3 6 6 2	} ¹ 1 6 2	9993	9 9 9 2	9 9 3	} 15 8 3
Under 20 years	6 6 5 -	6 6 2 1	2 6 6 2	} 12 6 2	9 9 3	9 9 9 1	8 9 3	} 15 9 3
Under 20 years	6 6 4	6 6 3 -	2 6 6 2	} ¹ 2 6 2	9993	9 9 9 1	9 9 9 3	} 16 9 3

 $^{^{1}}$ Because of small frequencies for brides other than white, previously married brides under 20 years of age and in age groups under 30 years of age were combined to form one stratum for sampling.

Three time duration subsamples (5,7, and 9 months in table II) were chosen from June 1968 marriages and were included in November, January, and March mailings, respectively. These are shown for illustration in table III. For the full strata 18 or 27 marriages were selected from each stratum of table I and were randomly allocated to the three time duration subsamples as shown in table III.

Thus month of marriage is partially confounded with time duration since marriage and winter months were overrepresented at the extremes of 3 and 9 months' duration while spring and summer were overrepresented at 5 and 7 months' duration.

Strata which were not full were sampled at the rate of 100 percent.^c For sampling purposes previously married brides other than white who were under 30 years of age were considered as one stratum although for analytical purposes they were subdivided.

Within each sample stratum of table III, brides under age 45 were subdivided into three subgroups, each to be sent one of the three versions of the questionnaire. Brides over 45 were sent only the basic questionnaire. On the first mailing every other questionaire was sent to the bride at her address and the next was sent to the bride at the groom's address. Thus when all 6 months of mailing were combined as indicated in table II, the "full" strata had 36 and 54 marriages for the six-county area and rest of the State, respectively, divided uniformly among the three questionnaires.

Two weeks after the first mail query, which was always sent by regular mail, nonrespondents were randomly subdivided into two subsamples for testing the effect of certified versus regular mail on follow-up response. For the second mailing one subsample was sent certified mail and the other regular mail. Two weeks later a third questionnaire was sent by regular mail to all remaining nonrespondents regardless of what type mail had been used for the second mailing. This feature of the design made analysis of differences between certified and regular mail response more complicated because of the built-in correlations between first wave and later results.

Multinomial Model for Stratum Response Rates and Variances

Type of response, timing of response, and type of second mail query were combined and condensed to create six multinomial "response categories" for classifying sampled brides.

All told, there were 24 area by marital status by race by age strata under age 45 years. Elimination of previously married brides other than white under age 20 years reduced this to 22 strata. Within each of these 22 strata there were 12 questionnaires by time duration strata, yielding a total of 264. Within each of the 264 sample strata the brides were classified as follows:

Response category, time and type of response,	Stratum				
and type of mail for second query	Frequency	Proportion			
Total, all waves	¹ n _i ,,	$\hat{p}_{i.} = 1$			
FIRST WAVE (15 days or less)					
No second mailing					
1Respondent2Other	$n_{i1} \\ n_{i2}$	$\hat{p}_{i1} \\ \hat{p}_{i2}$			
SECOND OR THIRD WAVE (16 days or more)		- • • • • • • • • • • • • • • • • • • •			
Certified mailing					
3Respondent	$n_{i3} \\ n_{i4}$	ρ̂ _{i3} β̂ _{i4}			
Regular mailing					
5Respondent	n i5 n _i 6				

NOTE: n_i for each full stratum was 12 and 18 for the six-county area and for the rest of the State respectively.

Where n_{ij} refers to the number of brides in the jth response category of the ith stratum (i=1,2...264). $\sum_{j=1}^{6} n_{ij} = n_{j}$, the sample size for the ith stratum. $\hat{p}_{ij} = \frac{n_{ij}}{n_{i}}$.

Within each stratum, multinomial sample proportions and their covariance matrix were used to estimate first wave and all wave cumulative response rates separately for certified and regular mail and for the difference between regular and certified mail. Cumulative response rates can be expressed as follows:

Through first wave (I): $\hat{r}_{ii} = \hat{p}_{i1}$

Note that month to month variations in the size of some strata may have resulted in less than 100 percent in the combined sample because no more than the required number were taken when strata were full.

Cumulative response through third wave (III):

Certified:

$$\hat{r}_{ci} = \hat{p}_{i1} + w_{ci} \left(\hat{p}_{i3} \right)$$

Regular:

$$\hat{r}_{ri} = \hat{p}_{i1} + w_{ri} (\hat{p}_{i5})$$

Where:

 w_{ci} =reciprocal of the proportion sent certified mail

$$=\sum_{j=3}^{6}\hat{p}_{ij}/\sum_{j=3}^{4}\hat{p}_{ij},$$

and w_{ri} = reciprocal of the proportion sent regular mail = $\sum_{i=3}^{6} \hat{p}_{ij} / \sum_{i=5}^{6} \hat{p}_{ij}$

Under the simplifying assumption that the weights, w_{ci} and w_{ri} , are nonstochastic, estimates of variances (ignoring finite population corrections) were made for each stratum of table I as follows.

$$\begin{split} & \text{var} \left(\hat{r}_{li} \right) = \frac{1}{n_{i.}} \left[\; \hat{p}_{i1} \; \left(1 - \hat{p}_{i1} \right) \; \right] \; , \\ & \text{var} \left(\hat{r}_{ci} \right) = \frac{1}{n_{i.}} \left[\; \hat{p}_{i1} \; \left(1 - \hat{p}_{i1} \right) + 2 w_{ci} \; \left(- \hat{p}_{i1} \; \hat{p}_{i3} \right) + w_{ci}^2 \; \left(\hat{p}_{i3} \right) \; \left(1 - \hat{p}_{i3} \right) \; \right] \\ & \text{var} \left(\hat{r}_{ri} \right) = \frac{1}{n_{i.}} \left[\; \hat{p}_{i1} \; \left(1 - \hat{p}_{i1} \right) + 2 w_{ri} \; \left(- \hat{p}_{i1} \; \hat{p}_{i5} \right) + w_{ri}^2 \; \hat{p}_{i5} \; \left(1 - \hat{p}_{i5} \right) \; \right] \end{split}$$

And since

$$\begin{split} & \hat{r}_{ci} - \hat{r}_{ri} = w_{ci} \, \hat{p}_{i3} - w_{ri} \, \hat{p}_{i5}, \\ & \text{var} \, (\hat{r}_{ci} - \hat{r}_{ri}) = \frac{1}{n_{i.}} \, \left[\, (w_{ci})^2 \, (\hat{p}_{i3}) \, (1 - \hat{p}_{i3}) \, - 2w_{ci} \, w_{ri} \, (-\hat{p}_3 \, \hat{p}_5) \right. \\ & \left. + (w_{ri})^2 \, (\hat{p}_{i5}) \, (1 - \hat{p}_{i5}) \, \right] \end{split}$$

Estimates from "full" sample strata, i.e. $n_p = 12$ or 18 for six-county area or rest of State, respectively, were tabulated separately by area and type of second

mail and for the difference between certified and regular mail. There were 73 and 101 full strata for sixcounty area and rest of State, respectively. Averages are shown in table IV.

Thus rather than using individual variances for each stratum, estimated average variances of rates within stratum were used as follows:

$$\begin{aligned} & \text{var} \; (\hat{r}_{fi}) = (0.1751)/n_i, \\ & \text{var} \; (\hat{r}_{ci}) = \text{var} \; (\hat{r}_{ri}) = (0.5329)/n_i, \\ & \text{var} \; (\hat{r}_{ci} - \hat{r}_{ri}) = (1.2276)/n_i, \end{aligned}$$

Limitations of Variance Estimates

Properties of the asymptotic estimates var (r), are unknown. Assuming that the weights w_c and w_r (the inverses of sampling fractions for the second mailing) were nonstochastic may have caused underestimation of sampling variances. Use of the arithmetic mean of all sample variances caused underestimation. Ignoring finite population correction factors causes overestimation of sampling variances. The relative extent to which these factors influence results of this study is not known. However, the estimates are assumed to be accurate enough for the purposes of this pilot study.

Weighted State Estimates of Response Rates and Standard Errors

Because of the small frequencies in each stratum it was not possible to interpret the response rates directly. Therefore small stratum estimates were combined to obtain estimates for major variables using the

Table IV. Average variance of cumulative response rates by mailing and area: North Carolina Marriage Survey, 1968-69

	First	Type of second mail (all waves)						
Area and number of strata	mailing	Certified	Regular	Difference				
	$n_{j.} \left[\overline{\operatorname{var} \left(\hat{\mathcal{P}}_{j.j} \right)} \right]$ $n_{j.} \left[\overline{\operatorname{var} \left(\hat{\mathcal{P}}_{c.j} \right)} \right]$. n_i . [var (\hat{r}_{ri})]	n_i , $\left[\text{var} \left(\hat{r}_{ci} - \hat{r}_{ri} \right) \right]$				
Six-county area: (73 strata, n _i = 12)	0.1851	0.5147	0.5267	1.2263				
Rest of State: (101 strata, n _i = 18)	0.1678	0.5411	0.5112	1,2285				
Weighted mean variance	0.1751	0.5329	0.5177 0.5301	1.2276				

Table V. Approximate standard error of unbiased rates of tables 4-8: North Carolina Marriage Survey, 1968-69

		All waves			
Table and variable	First wave	Certified or regular	Difference certified- regular		
Table 4					
Total	1.3	2.2	3.3		
Six-county areaRest of State	2.1 1.8	3.4 2.9	5.9 5.4		
Marital status of bride	1.9	3.1	5.6		
Color of bride	1.9	3.1	5.6		
Age of bride	2.3	4.0	6.0		
Version of questionnaire	2.2	3.7	5.8		
Time duration since marriage	2.5	4.3	6.7		
<u>Table 5</u>					
Version of questionnaire x time duration since marriage	4.4	7.5	11.5		
<u>Table 6</u>					
Version of questionnaire x color of bride x previous marital status of bride	3.0	5.0	7.5		
Table 7					
Version of questionnaire x color of bride x age of bride previous marital status of bride	4.7	7.8	12.0		
Table 8					
Color of bride x age of bride x previous marital status of bride	2.9	4.6	7.1		
Color of bride x previous marital status of bride	1.6	7.9	5.6		

corresponding proportion of brides in the study population (table 1) as weights. Equal weights were used in averaging over questionnaires or over durations (one-third for questionnaires and one-fourth for duration). In general weighted estimates of a response rate were expressed as:

 $\hat{R} = \sum_{i=1}^{k} \ell_i \hat{r}_i$ where for convenience the wave subscripts I, c, and r have been omitted. And the ℓ_i are weights based upon population proportions, questionnaires, and/or time durations as appropriate.

Approximate variances were calculated as follows:

$$\operatorname{var}\left(\stackrel{\wedge}{R}\right) = \sum_{i=1}^{k} \, \mathfrak{L}_{i}^{2} \, \operatorname{var}\left(\stackrel{\wedge}{r_{i}}\right).$$

Standard errors for rates in detailed tables 4-8 are shown in table V above.

The sample design gave essentially equal weight to each questionnaire. However, time durations of 5 and 7 months were underrepresented and hence equal weights yield unbiased State estimates.

APPENDIX III

DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

Principal month of marriage (occurrence).—The monthly period in which the vital record was filed with the State Board of Health.

Area of occurrence.—The two study groups of counties within North Carolina in which marriages took place: the six-county area consisted of central counties of Alamance, Durham, Forsyth, Guilford, Orange, and Wake, and the rest of the State consisted of the other 94 counties in North Carolina.

Time duration since marriage.—The average elapsed time in months between the principal month of marriage and the month of mailing the initial survey questionnaire.

Wave (time) of response.—First wave respondents returned a completed questionnaire within 15 days from the day of the initial mailing; second wave respondents returned a completed questionnaire within 15 to 28 days of the first mailing; and third wave respondents returned a completed questionnaire within 29 to 100 days of the initial mailing.

Certified mail.—The type of additional postage (costing \$.30) which was used for one-half of the first follow-ups (second wave). A receipt was signed by the addressee or someone at that address when the questionnaire was delivered; otherwise, the addressee was notified to pick it up at the local Post Office. The Post Office returned letters which were not picked up approximately 2 weeks after the initial notice.

Post Office return.—A questionnaire which was returned by the Post Office stamped undeliverable, no forwarding address, no such addressee, no such address, unclaimed, or refused.

Adequate response.—A returned questionnaire in which the information on all priority items was reported.

Priority items common to all three versions of the questionnaire included State of birth, education, usual activity before and since marriage, employment, income, sources of income, residence before marriage, household structure after marriage, and date of birth for both bride and groom. Hospitalization coverage for the health care version was the only other priority item.

Requery.—Special forms mailed to respondents who did not return an adequate response. Those items which were not completed properly were checked and the respondent was asked to complete and return the form.

Color.—The division of the population into two major groups on the basis of information reported on the marriage certificate. Races other than white include persons of Negro, American Indian, and Asian Indian races.

Age.—Age at marriage based on date of birth. Previous marital status.—The marital status of persons prior to the current marriage (never married or previously married) as reported on the marriage license.

Income.—The present annual total income of the bride and the groom recorded separately.

Household structure.—The type of group of one or more related or unrelated persons who occupy the same dwelling unit. A household with no relatives other than head, spouse, and children is classified as nuclear. A household including parents, relatives, and other persons is defined as "extended."

 ${\it Query.}$ —The mailed questionnaires used in the survey.

Percent consistent.—Percent of consistent responses to an item common to two record sources for which information was provided on each record.

APPENDIX IV

ESTIMATED AMOUNT ADDED BY INTERVIEW FOLLOW-UP OF REFUSALS AND NONRESPONDENTS

Both respondents and nonrespondents were sampled for interview follow-up. Respondents were interviewed to test the consistency and the quality of data elicited in the mail survey and on the marriage record. Results for respondents were reported in the text and are not included here. This appendix is limited to estimating the increase in response which would result from interviewing samples of refusals and nonrespondents.

The number of cases on which the estimates are based is very limited, 41 refusals and 173 nonrespondents from the mail survey. These exclude those clas-

sified as sampled, i.e., not eligible because the most recent address, either on the refusal or on the marriage record, was outside the six-county area. These cases are shown in table VI along with the notation which will be used to explain the estimation procedure.

Because certified and regular mail categories were established only at the time of the second mailing, this sampling fraction as well as the interview rate must be taken into account in estimating the amount which would have been added if the mail sample had been carried out completely with either certified or regular mail.

Table VI. Distribution of mail survey sample by interview sampling and eligibility status and mail survey wave and response category: North Carolina Marriage Survey, 1968-69

		Mail survey wave and response category											
Interview						Second and third waves							
sampling and eligibility	Total	F1	irst wav	e	Certified mail			Regular mail					
status		Re- spond- ent	Re- fusal	Non- re- spond- ent	Re- spond- ent	Refusal	Non- re- spond- ent	Re- spond- ent	Refusal	Non- re- spond- ent			
Total	1,283	351	8	13	206	28	229	170	18	260			
Not sampled	711	205(n ₁)	1(n ₅)	8(n ₉)	113(n ₁₃)	3(n ₁₈)	138(n ₂₁)	85(n ₂₅)	1(n ₂₉)	157 (n ₃₃)			
Sampled: Not eli- gible	125	45(n ₂)	1(n ₆)	1(n ₁₀)	26(n ₁₄)	4(n ₁₈)	11(n ₂₂)	20(n ₂₆)	3(n ₃₀)	14(n ₃₄)			
Eligible: Inter- viewed Not inter- viewed	289 158	79(n ₃) 22(n ₄)	2(n ₇) 4(n ₈)	²⁽ⁿ 11) ²⁽ⁿ 12)	54(n ₁₅) 13(n ₁₆)	6(n ₁₉) 15(n ₂₀)	36(n ₂₃) 44(n ₂₄)	54(n ₂₇) 11(n ₂₈)	2(n ₃₁) 12(n ₃₂)	54(n ₃₅) 35(n ₃₆)			

Within each of the 6 months of mailing interview subsamples were selected at random (and at different rates) from the three categories—respondent, refusal, and nonrespondent—without regard to the wave (or time) at which the result had been categorized. Sampled cases were then classified as eligible for interview if the address was in the six-county area. Eligible cases were then classified as interviewed or not interviewed depending on results. At that stage the results were tabulated in the detail shown in table VI for all cases.

Using the notation above the total number of cases in the six-county area = $\sum_{i=1}^{36} n_i = 1283$,

Total cases, all classes, in the first wave = $\sum_{i=1}^{12} n_i = 372$,

Total, all classes, second and third waves combined are:

for certified mail = $\sum_{i=13}^{24} n_i = 463$

for regular mail = $\sum_{i=25}^{36} n_i = 448$, etc.

It was assumed that interview rates among those not eligible would have been the same as among eligibles if they had been traced. Thus the amounts added by interview were estimated as follows:

$$A_1 = \left(\frac{n_7}{n_7 + n_8}\right) \quad \stackrel{7}{\underset{5}{\Sigma}} n_i$$

= amount added by interview of first wave refusals,

$$A_2 = \left(\frac{n_{11}}{n_{11} + n_{12}}\right) \sum_{g}^{12} n_i$$

= amount added by interview of first wave nonrespondents

$$A_{3} = \left(\frac{n_{19}}{n_{19} + n_{20}}\right) \begin{pmatrix} 20 \\ \sum_{19} n_{i} / \sum_{1}^{36} n_{i} \end{pmatrix} \begin{pmatrix} 36 \\ \sum_{13} n_{i} / \sum_{13}^{24} n_{i} \end{pmatrix}$$

= amount added by interviewing certified mail re-

$$A_{4} = \begin{pmatrix} n_{23} \\ \frac{1}{n_{23} + n_{24}} \end{pmatrix} \begin{pmatrix} \frac{24}{21} n_{i} / \frac{36}{1} n_{i} \\ \frac{5}{21} n_{i} / \frac{36}{13} n_{i} / \frac{24}{13} n_{i} \end{pmatrix}$$

= amount added by interviewing certified mail non-respondents,

$$A_{5} = \left(\frac{n_{31}}{n_{31} + n_{32}}\right) \left(\frac{32}{\Sigma} n_{i} \middle/ \frac{36}{\Sigma} n_{i}\right) \quad \left(\frac{36}{\Sigma} n_{i} \middle/ \frac{36}{\Sigma} n_{i}\right)$$

 $\stackrel{\sim}{=}$ amount added by interviewing regular mail refusals, and

$$A_6 = \left(\frac{n_{35}}{n_{35} + n_{36}}\right) \left(\frac{36}{25}n_i \middle/ \frac{36}{1}n_i\right) \quad \left(\frac{36}{13}n_i \middle/ \frac{36}{25}n_i\right)$$

Estimates based upon the data in table VI, i.e., relative to the totals, are:

Amount added by interview of:	Percent
First wave refusals, A ₁	0.2
Certified mail refusals, A_3	1.2
$A_1 + A_3$	(1.4)
First wave nonrespondents, A_2	0.5
Certified mail nonrespondents, A_4 -	15.8
$A_2 + A_4 - \cdots$	(16.3)
First wave refusals, A ₁	0.2
Regular mail refusals, A ₅	0.4
A ₁ + A ₅	(0.6)
First wave nonrespondents, A_2	0.5
Regular mail nonrespondents, A_6	25.0
A ₂ + A ₆	(25.5)

Thus the total amounts added by interview of refusals and nonrespondents are:

Certified mail: $A_1 + A_2 + A_3 + A_4 = 17.7$ percent, and

Regular mail: $A_1 + A_2 + A_5 + A_6 = 26.1$ percent

Similarly, estimates of amounts added by interview were made by race, age, and marital status. These are shown in table VII with weighted results from table 8.

It is clear that the largest estimates of amounts added by interview are for those groups making up the smallest fractions of the study population of brides. For example, never married white brides accounted for 70 percent of the marriages in the State. When weighted according to the proportions in the study pop-

Table VII. Estimated amount added by interview of refusals and nonrespondents: North Carolina Marriage Survey, 1968-69

Previous marital status, color, and age of bride	Weighted percent mail response		Amount added by interview		Total	
	Certi- fied	Regular	Certi- fied	Regular	Certi- fied	Regular
Never married						
White						
Under 20 years	68.2 72.7 47.1	61.4 61.7 52.7	13.1 6.1 5.3	13.3 9.5 14.1	81.3 78.9 52.4	74.7 70.2 66.8
<u>Other</u>						
Under 20 years	72.7 67.8 58.9	67.9 64.1 45.5	20.4 3.7 24.2	19.0 46.8	93.1 81.5 83.1	86.9 64.1 92.3
Previously married						
White						
Under 20 years	54.2 50.1 39.5	50.6 39.7 36.8	6.6 9.9 25.7	37.6 11.6 32.7	60.8 60.0 65.2	88.2 51.3 69.5
<u>Other</u>						
Under 20 years	48.2 61.0	49.1 41.4	37.0 14.3	23.7 37.9	85.2 75.3	72.8 79.3

ulation the total amounts added in a random sample would be:

Certified:

11.0 percent

Regular:

13.4 percent

Even so it would appear that combined mail-interview response rates of 80 percent or higher are possible except for white brides who were previously married and/or over 30 years of age.

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