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Washington, D.C.

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CHRON FILE - K.C. ZACHARIAH
Jan. 4 - Dec. 6, 1973

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K.C. Zachariah - Chronological Records - January 4 - December 6, 1973

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File

Population Crisis Committee

November 23, 1973

Suite 200, 1835 K Street, N.W.
Washington, D. C. 20006
Telephone (202) 659-1833
Cable: CRISIS WASHINGTON

Mr. K. C. Zachariah
International Bank for Reconstruction
and Development
Economics Department
1818 H Street, N.W. Room D-504
Washington, D.C. 20433

Dear Mr. Zachariah:

I have written to Mr. McNamara to thank him for the splendid cooperation you have given us in connection with the population projections by the University of Chicago under Dr. Bogue's leadership.

I do want to thank you and to tell you how important I think those that have been done and those that are still under preparation really are at this time with the World Population Year just ahead and the World Population Conference only nine months away.

I believe we can find many uses for these important projections which will constructively affect many developing countries' policy decisions and probably help considerably in arriving at a truly worthwhile World Population Plan of Action next August.

With kind personal regards.

Sincerely,

William H. Draper, Jr.

Enc.

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Willard Wirtz

Population Crisis Committee

November 20, 1973

Suite 200, 1835 K Street, N.W.
Washington, D. C. 20006
Telephone (202) 659-1833
Cable: CRISIS WASHINGTON

Mr. Robert S. McNamara, President
International Bank for Reconstruction
and Development
1818 H Street, N.W.
Washington, D.C. 20433

Dear Bob:

I must bring to your attention with thanks and appreciation a notable contribution to understanding of world population problems that was made possible by the painstaking and imaginative work of your associate at the Bank, K. C. Zachariah. In saying this, I am referring to the study of world population projections prepared by the University of Chicago Community and Family Study Center under the direction of Dr. Donald Bogue.

I have just returned from a two weeks' session of the United Nations Population Commission in Geneva, which is responsible for making preparations for the World Population Conference to be held in Bucharest, Rumania, in August 1974. As you know, the Conference will be the main event of United Nations World Population Year. As the U.S. representative on the Commission, I was happy to present to the Director of the UN Population Division, Dr. Leon Tabah, all the projections, and to each of the Commission members from developing nations their own population projections which develop and set forth the basic implications of current population and fertility trends.

The studies, which were developed as part of the University of Chicago Community and Family Study Center's continuing analysis of family planning targets, were based partly on materials prepared for staff use in the Bank of the population projections of Bank member countries. The 1970 data for each country, together with the general rule for determining future expectations of life at birth, followed much the same pattern used by the staff at the Bank. The set of projections developed by the University of Chicago, however, employed different assumptions of the future course of fertility. In addition to the constant fertility assumption used by the staff at the Bank, they also assumed total fertility rates of 3.5, 3.0 and 2.5 children per average family, and also the reaching of the replacement rate for each country by 2000.

As you of course know much better than I, many nations do not have the facilities to prepare such projections. The resulting projections were well-received by each of the delegations to whom the studies were presented at the recent Commission meeting and will, I believe, make a significant contribution to their evaluation of population problems.

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Maxwell D. Taylor
Mrs. Carl Tucker, Jr.
Wm. C. Westmoreland
Willard Wirtz

Mr. Robert S. McNamara, President

-2-

November 20, 1973

In addition to the many valuable inputs by Mr. Zachariah, the studies were also prepared in cooperation with the International Statistical Program Center of the U.S. Bureau of the Census, and the Demographic and Economic Analysis Division of the U.S. Agency for International Development.

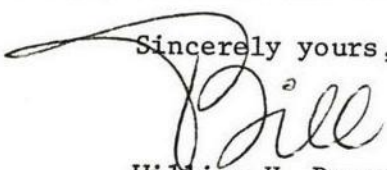
As you will note from the sample enclosure on the population projections for Mexico, the role of Mr. Zachariah is mentioned as one in his personal capacity and does not attribute the work or the views in any way to the Bank. I should also mention that we owe appreciation and thanks to Mr. Hawkins whom we consulted at the outset of this project and who consented to Mr. Zachariah's role.

I cannot underrate the importance of their contribution to these particular studies and their present willingness to continue the project so as to cover projections for all the regions of the world and for most of the developing countries.

I truly feel that this will be one of the most significant statistical studies being made in preparation for the World Population Conference. I hope to arrange for the salient parts to be distributed in some appropriate way, probably through the Population Division of the United Nations, to most of the developing countries with appropriate comments, and I believe that this is likely to affect constructively the judgements of many on the important policy issues which will be under consideration next August in Bucharest.

Therefore I again wish to express my great appreciation to you and to the Bank for the substantial part played by Mr. Zachariah in this endeavor.

Sincerely yours,


William H. Draper, Jr.

Enc.

P.S. If you would like a complete set of these projections, when they have all been completed, we will of course be happy to make it available to you.

DEMOGRAPHY

A PUBLICATION OF THE POPULATION ASSOCIATION OF AMERICA
BUSINESS OFFICE: P.O. BOX 14182, BENJAMIN FRANKLIN STATION, WASHINGTON, D.C. 20044

EDITORIAL OFFICE: POPULATION AND MANPOWER RESEARCH CENTER
INSTITUTE FOR SOCIAL RESEARCH
FLORIDA STATE UNIVERSITY
TALLAHASSEE, FLORIDA 32306
AREA CODE 904: 599-4570

December 6, 1973

Dr. K. C. Zachariah
Economics Department
IBRD
1818 H Street, N.W.
Washington, D.C. 20433

Dear Dr. Zachariah:

If it is at all possible for you to do so at this time, Dr. Nam would very much like for you to review the enclosed revision of a paper entitled "Fertility and Mortality in India, 1971," which you evaluated some months ago.

We do hope that you can review this paper and look forward to your comments and opinion as to whether you think the paper is now in publishable form.

Thanking you in advance for your cooperation, I am,

Sincerely yours,



(Mrs.) Betty Sue Kurth
Editorial Secretary, DEMOGRAPHY

BSK

Enclosures:

Revised ms.

Eval. forms

Date sent December 6, 1973
(Please return at once if you cannot
evaluate manuscript within ten days) ~~xx~~
or as soon as possible after receiving it).

DEMOGRAPHY

REFEREE'S REPORT TO THE EDITOR ON FERTILITY AND MORTALITY IN INDIA, 1971

RECOMMENDATIONS

	check one	check one
a) Publishable as submitted or with only minor editorial changes	Yes <input type="checkbox"/> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> High priority Low priority </div>	<input type="checkbox"/> <input type="checkbox"/>
	No <input checked="" type="checkbox"/> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> Encourage revision Do not encourage </div>	<input checked="" type="checkbox"/> <input type="checkbox"/>

b) Send to the following referee: _____

c) Evaluation for the editor, not the author:

*A thorough revision is required
before this paper can be
published*

SUGGESTIONS FOR REVISION, EDITORIAL AND SUBSTANTIVE, SHOULD BE MADE ON THE ATTACHED PAGES (IN DUPLICATE) FOR TRANSMITTAL TO THE AUTHOR.

Referee's signature *[Signature]* Date 31 Jan 1974

PLEASE RETURN MANUSCRIPT WITH EVALUATION. THANK YOU.

Charles B. Nam, Editor, DEMOGRAPHY
Population and Manpower Research Center, Institute for Social Research
Florida State University, Tallahassee, Florida 32306

November 21, 1973

Dear Dr. Ramachandran:

On my way to Cairo, I am planning to stop at Accra for a day or two and discuss with Dr. Adde his proposal for research on Migration in African Countries. I would like to take this opportunity to meet you and your colleagues at the UN Demographic Center to learn about your research program for African Countries. Please let me know whether it will be possible for me to see you on the 12th or 13th of December, 1973.

Yours sincerely,

K. C. Zachariah
Population and Human Resources Division
Development Economics Department

Dr. K. V. Ramachandran
C/O U.N.D.P.
P. O. Box 1423
Accra
Ghana

KCZachariah:st

November 21, 1973

Dear Dr. N'Duba Wa Dile:

On my way to Cairo, I am planning to stop for a day each in Dakar and Accra to discuss with you and Dr. Addo, details of your proposed research program on population dynamics in Africa. I will appreciate very much if you would let me know whether it will be possible for me to meet you and your colleagues on the 10th or 11th of December, 1973.

Yours sincerely,

K. C. Zachariah
Population and Human Resources Division
Development Economics Department

Dr. Kazadi N'Duba Wa Dile
President
C.O.D.E.R.E.S.A.
B.P. 3186
Dakar, Senegal

KCZachariah:st

November 8, 1973

Mr. Kazadi N'Duba wa Dile
President
Council for the Development of
Economic and Social Research in
Africa (C.O.D.E.S.R.I.A.)
B. P. 3.186
Dakar, Senegal

Dear Mr. N'Duba wa Dile:

I have received your letter and attached application for a grant of \$200,000 from the Bank for the proposed Fund for Population Research in Africa. As I told Dr. Addo when I met him in Liege we are very much interested in population research in Africa especially items 1, 2 and 4 in your proposed program.

The Bank has a strict procedure for scrutinizing research proposals and applications for support of research by external agencies. They are reviewed by several Departments in the Bank and a decision is made on the basis of a recommendation of the Bank's Research Committee. Funds are limited for these purposes, and I can give no assurance that it will be possible to meet your request. However, we are interested in the proposal and will examine it carefully. We will let you know our decision as soon as possible.

Yours sincerely,

K. C. Zachariah
Population and Human Resources Division
Development Economics Department

Cleared with and cc: Mr. Hawkins

cc: Mr. Stern
Mr. Gulhati
Mrs. Hughes
Mr. Baldwin
Mr. T. King (o/r)

KCZ:jlh

OUTGOING WIRE

TO: TIMOTHY KING
INTBAFRAD
NEW DELHI

DATE: NOVEMBER 5, 1973

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COUNTRY: INDIA

TEXT:
Cable No.:

FOLLOWING OUTLINE OF WHITE PAPER ON POPULATION PREPARED BY THE
DIVISION STOP DISCUSSED WITH GULHATI CHECKING AVAILABILITY OF UN
CONFERENCE PAPERS PERTINENT FOR THE WHITE PAPER STOP WOULD LIKE TO
RECEIVE YOUR COMMENTS AND SUGGESTIONS FOR OTHER ACTIONS TO BE TAKEN
BY US BEFORE YOUR ARRIVAL STOP

I. INTRODUCTION

II. POPULATION GROWTH IN THE CONTEXT OF ECONOMIC AND SOCIAL DEVELOPMENT

(1) PATTERNS OF RECENT DEMOGRAPHIC TRENDS:

POPULATION TRENDS COLON GLOBAL COMMA REGIONAL COMMA AND
SUB -REGIONAL SEMI COLON DEVELOPED COUNTRIES VERSUS DEVELOPING
COUNTRIES SEMICOLON FUTURE PROSPECTS IN THE ABSENCE OF ADDITIONAL
EFFORTS FOR FERTILITY CONTROL SEMICOLON RECENT TRENDS IN FERTILITY
RATES COLON GLOBAL COMMA REGIONAL COMMA SUB-REGIONAL COMMA AND
IN COUNTRIES WITH POPULATION PROGRAMS SEMICOLON

NOT TO BE TRANSMITTED

AUTHORIZED BY:

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PAGE 2

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DATE: NOVEMBER 5, 1973

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OTHER FACTORS AFFECTING POPULATION TRENDS COLON MORTALITY COMMA AND
MIGRATION SEMICOLON OTHER DEMOGRAPHIC TRENDS AFFECTING DEVELOPMENTAL
PROCESS RURAL-URBAN MIGRATION COMMA URBANIZATION COMMA AGE STRUCTURE
COMMA ETC STOP

- (2) INTERRELATIONSHIP BETWEEN DEMOGRAPHIC TRENDS AND DEVELOPMENTAL PROCESS
COLON INFLUENCE OF DEMOGRAPHIC TRENDS ON RESOURCES COMMA FOOD COMMA
ENVIRONMENT COMMA LEVEL OF LIVING COMMA ILLITERACY COMMA EMPLOYMENT
AND UNEMPLOYMENT COMMA INCOME DISTRIBUTION COMMA POVERTY COMMA ETC COMMA
INFLUENCE OF DEVELOPMENTAL PROCESS ON FERTILITY COMMA MORTALITY COMMA
POPULATION GROWTH ETC STOP

111 (3) FERTILITY REGULATION COLON POLICIES AND PROGRAMS

- (1) DEVELOPMENT OF POPULATION POLICIES IN DEVELOPING COUNTRIES STOP
(2) CURRENT STATUS OF POPULATION POLICIES AND PROGRAMS COLON NATIONAL
SUPPORT COMMA COUNTRY COVERAGE SEMICOLON POPULATION COVERAGE SEMICOLON
(3) CURRENT STATUS OF BIRTH CONTROL TECHNIQUES STOP

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(4) ORGANIZATIONAL ASPECTS OF CURRENT NATIONAL POPULATION PROGRAMS COLON
POLICY MAKING BODIES IMPLEMENTING BODIES FINANCIAL ASPECTS FAMILY
PLANNING METHODS PERSONNEL AND TRAINING EDUCATIONAL AND COMMUNICATION
ASPECTS RESEARCH AND EVALUATION

(5) ROLE OF INTERNATIONAL ORGANIZATIONS IN SUPPORTING NATIONAL PROGRAMS

(6) ROLE OF THE WORLD BANK STOP

IV. PROGRAM PERFORMANCE

(1) FACTORS RELATED TO RECENT FERTILITY TRENDS COLON RELATIVE CONTRIBUTIONS
OF DEMOGRAPHIC FACTORS COMMA SOCIO-ECONOMIC FACTORS COMMA AND FAMILY
PLANNING PROGRAMS STOP

(2) PROGRAM PERFORMANCE AS INDICATED BY FAMILY PLANNING SERVICE STATISTICS
AND OTHER INDICATORS COLON COMPARATIVE ANALYSIS OF PROGRAM INPUT AND
OUTPUT SEMICOLON COMPARATIVE ANALYSIS OF PROGRAM OUTPUT AND POPULATION
CHARACTERISTICS STOP

(3) FACTORS ASSOCIATED WITH SUCCESS OR FAILURE IN PROGRAM PERFORMANCE STOP

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V. PROSPECTS FOR IMPROVING PROGRAM PERFORMANCE

WHAT NEEDS TO BE DONE QUESTION WHAT CAN BE DONE BY THE COUNTRIES
THEMSELVES QUESTION WHAT THE INTERNATIONAL COMMUNITIES CAN DO QUESTION
FOR INCREASED COVERAGE AND GREATER NATIONAL COMMITMENT FOR FAMILY
PLANNING PROGRAMS SEMICOLON FOR IMPROVED ORGANIZATION AND ADMINISTRATION
OF NATIONAL FAMILY PROGRAMS SEMICOLON FOR INCREASING DEMAND FOR FAMILY
PLANNING SERVICES SEMICOLON FOR NON-PROGRAM APPROACHES TO FERTILITY
REDUCTION SEMICOLON FOR IMPROVED FAMILY PLANNING TECHNOLOGY SEMICOLON
FOR INCREASED INTERNATIONAL SUPPORT STOP

VI. CONCLUSIONS

ZACHARIAH

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PREPARE REPLY

COMMENT

PER OUR CONVERSATION

FULL REPORT

RECOMMENDATION

INFORMATION

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INITIAL

SEND ON

REMARKS

*Any ideas?**NO*

FROM

October 24, 1973

Mr. Bruce N. Jordan
Education Officer
AFFH/Action for Development
G.P.O. Box 3930
Australia 2001

Dear Mr. Jordan:

This is in reply to your letter addressed to Mr. E. Stoutjesdijk. We have recently established the Income Distribution Division in the Bank and our work program is only just beginning. However, you may find two recently produced draft reports of interest to you. These are enclosed.

I am sending your letter to Mr. Timothy King, who is Division Chief in charge of the Population and Human Resources Division in the Bank, so that he can send you material related to that field.

The documents enclosed are in draft form and will shortly be reissued in final form. We will send you copies as soon as they are available.

Sincerely yours,

Montek Ahluwalia
Development Research Center
Chief, Income Distribution Division

Enclosures (2)

(Jain/Tiemann Paper)
(Redistribution with Growth)

cc: Timothy King



Australian Freedom From Hunger Campaign/ Action For Development

National Office: Ground Floor, 69 Clarence Street, Sydney.

Communications to Box 3930, G.P.O., Sydney, 2001

Telegraphic: "Austfree", Sydney

TELEPHONE: 29 3228

September 27, 1973

Dr. E. Stoutjesdyk
Special Project Director
Economic Development and Research Division
I.B.R.D.
1818 H Street N.W.
WASHINGTON D.C. U.S.A.

Dear Dr. Stoutjesdyk,

The Australian FFH/ Action for Development has recently established an Education Office and appointed myself and Margaret George as its Officers.

Our task is to investigate ways, and to establish programs to raise awareness in Australia to development issues and concerns.

Accordingly, we have devised a plan which hopes to establish a channel through which materials being currently researched in universities in Australia may be converted into dynamic and meaningful learning folios by Australian teachers' colleges, and made available to schools throughout the country. A copy of the outline of this programme is being sent to you under separate cover.

Our approaches to all teachers' colleges and universities in five of the six States, have met with unanimous and even enthusiastic support.

We are planning to create a series of these learning folios, supported with audio and visual materials, each dealing with a different facet of the interrelated network of development concerns.

The first two we have chosen will consider "population" and "relative distribution of wealth and resources" from a variety of viewpoints, the aim being not to present a definitive position, but to make students aware of the scope involved.

Dr. Gavin Butler, in the Economics Department of Sydney University, suggested that some of the statistics and information you have available in your research division would be very much what we need in the way of current, authoritative background information, to form the basis, or starting point of the two topics mentioned above.

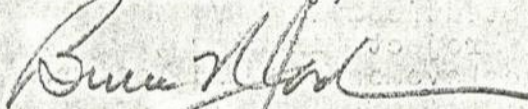
Therefore, if it is convenient, anything you could send us in the way of comparison of economies, disparities between rich and poor between and within countries, control of, and depletion of resources, would be very greatly appreciated. Furthermore, we would be in a position to ensure that all universities and teachers' colleges in Australia would also receive or have access to whatever you send.

In view of our own limitations here, imposed by a school year which begins in February, we must have the above two programs virtually completed by the end of the year, to be considered for inclusion in the formal curricula next year.

Therefore, any priority you could give our request, with convenience, would also be very greatly appreciated, and

I look forward to hearing from you, and thank you for your consideration.

Yours sincerely,



Bruce N. Jordan
Education Officer

TO OPEN SLIT HERE FIRST

2001

AUSTRALIA

G.P.O. Box 3930

AFFH/Action for Development

Education Officer

Bruce N. Jordan

SENDER'S NAME AND ADDRESS

COUNTRY OF DESTINATION

U.S.A.

D.C.

WASHINGTON

1818 H Street N.W.

I.B.R.D.

Economic Development and Research Division

Special Project Director

Dr. E. Stoutjesdijk

1973 OCT 12 AM 10:31

AUSTRALIA 128

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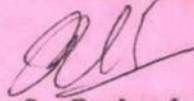
November 20, 1973

Dear Mr. Mauldin:

Professor Nazli Choucri met me here last Tuesday, and I gave her a copy of my paper which I presented at the 1969 London Meeting of the IUSSP. I have not written any other paper on migration and it was a news to me that the same article was reproduced in the Egyptian Population and Family Planning Review. They have not asked for my permission.

I am enclosing a copy each of two Bank Staff Working Papers which I wrote recently.

Sincerely yours,



K. C. Zachariah
Population and Human Resources Division
Development Economics Department

Mr. W. Parker Mauldin
Vice President
The Population Council
245 Park Avenue
New York, N.Y. 10017

Enclosures:

KCZachariah:st

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TO: S. A. HUZAYYIN
CAIRO DEMOGRAPHIC CENTRE
6, SHARIA WILLCOCKS
ZAMALEK, CAIRO

DATE: NOVEMBER 19, 1973

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COUNTRY: EGYPT

TEXT:
Cable No.:

CABLE STATUS OF MIGRATION SEMINAR STOP PARTICIPATION WILL
REQUIRE ADVANCE INFORMATION.

K. C. ZACHARIAH

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AUTHORIZED BY:

NAME K.C. ZACHARIAH

DEPT. DEVELOPMENT ECONOMICS

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NOVEMBER 9, 1973

1973 NOV -9 AM 10:32

Mr. Zachariah
Mr. Stevenson

INTBAFRAD

COMMUNICATIONS
SECTION

WASHINGTON DC

THREE FOR ZACHARIAH

ASSUME YOU HAVE SEEN MY THOUGHTS OUTLINE I SENT GULHATI. FIND YOUR OUTLINE PERFECTLY COMPATIBLE WITH THAT EXCEPT THAT ANALYSIS OF PROGRAM PERFORMANCE MUST PRECEDE DISCUSSION OF ORGANIZATIONAL FACTORS. ALSO WANT TO GIVE GREATER PROMINENCE ANALYTICAL WORK OF CUCA AND HOSSAIN WHICH ASSUME PROCEEDS ALL DELIBERATE SPEED. ALSO WOULD TAKE OUT TECHNOLOGY INTO SEPERATE BMEF SECTION AND GROUP INTERNATIONAL QUESTIONS AT END. HOPE YOU AND JOE CAN BEGIN ORGANIZE DATA AND EVEN DRAFTS FOR DESCRIPTIVE SECTIONS.

WE HAVE UN SEMINAR PAPERS POPULATION AND DEVELOPMENT AND NICK CARTER WILL HAVE ON POPULATION AND ENVIRONMENT. KATHLEEN JUPP OF UN POP DIV HAS PROMISED US OTHER SEMINAR PAPERS, DONT THINK WE SHALL GET MUCH OF EITHER HELP OR COMPETITION THERE. REGARDS

KING

Mr. E. Stern (through Mr. E. K. Hawkins)

November 7, 1973

K. C. Zachariah

Staff Working Paper on Family Planning and Fertility Trends in Jamaica

1. In accordance with your memo to Mr. King on the above subject, I have taken the following actions:

- i. a copy of the paper was sent to Mr. Murray Ross, Senior Economist at the Latin America and Caribbean Regional Office. He called me up to say that they have nobody qualified enough to comment on the paper and that they will have no objections to issue it as a staff working paper;
- ii. I contacted the FNP Department once again for their comments. I received the attached comments from Mr. G. Baldwin with a further suggestion for changes in the text;
- iii. I have made the changes suggested in your memo and some of those suggested by Mr. Baldwin.

2. In view of the fact that all concerned persons have commented on the paper, I have not discussed the paper in a formal seminar. I feel that it is unnecessary at this stage and suggest that it be issued as a staff working paper.

Attachment

KCZachariah:jlh

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TO: TIMOTHY KING
INTBAFRAD
NEW DELHI

DATE: NOVEMBER 5, 1973

CLASS OF
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COUNTRY: INDIA

TEXT:
Cable No.:

FOLLOWING OUTLINE OF WHITE PAPER ON POPULATION PREPARED BY THE
DIVISION STOP DISCUSSED WITH GULHATI CHECKING AVAILABILITY OF UN
CONFERENCE PAPERS PERTINENT FOR THE WHITE PAPER STOP WOULD LIKE TO
RECEIVE YOUR COMMENTS AND SUGGESTIONS FOR OTHER ACTIONS TO BE TAKEN
BY US BEFORE YOUR ARRIVAL STOP

I. INTRODUCTION

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IN COUNTRIES WITH POPULATION PROGRAMS SEMICOLON

NOT TO BE TRANSMITTED

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PAGE 2

TO: TIMOTHY KING
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NEW DELHI

DATE: NOVEMBER 5, 1973

CLASS OF
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COUNTRY: INDIA

TEXT:
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OTHER FACTORS AFFECTING POPULATION TRENDS COLON MORTALITY COMMA AND
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SERVICE: TELEX 567

COUNTRY: INDIA

TEXT:
Cable No.:

V. PROSPECTS FOR IMPROVING PROGRAM PERFORMANCE

WHAT NEEDS TO BE DONE QUESTION WHAT CAN BE DONE BY THE COUNTRIES
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VI. CONCLUSIONS

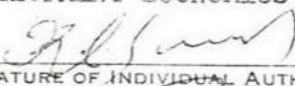
K.C. ZACHARIAH

NOT TO BE TRANSMITTED

AUTHORIZED BY:

NAME K.C. ZACHARIAH

DEPT. DEVELOPMENT ECONOMICS

SIGNATURE 
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October 18, 1973

Dear Professor Roberts:

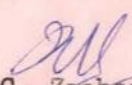
After I called you on the 'phone yesterday, I discovered that the following tables were also missing in the first lot sent to me earlier this month.

Jamaica:	Table A12 - Males and Females
St. Vincent:	Table 1 - Females
Antigua:	Tables 1 and A12
Br. Virgin Islands:	Table 1; A12
Montserrat:	Table A12
Grenada:	Table A12

If you have not already done so, please send them to me as soon as possible. I am also urgently in need of the tables related to the breakdown of the labor force by industrial and occupational divisions for all the countries.

With regards,

Sincerely yours,


K.C. Zachariah

Population and Human Resources Division
Development Economics Department

Professor George Roberts
Faculty of Social Science
University of the West Indies
Mona
Kingston 6
Jamaica

KCZachariah:st

POPULATION

1. K.C.Zachariah, Problems of Applying Stable Population Techniques in Estimating Demographic Measures for Arab Countries, August 1971.

Describes an alternative approach to the problems of adjusting birth rates estimated by the stable population method for the effects of recent declines in mortality. Although the method was developed for Arab countries, it has much wider applicability. (Arab countries).

2. K.C.Zachariah and R. Cuca, Population Projections for Bank Member Countries 1970-2000, December 1972.

Presents population projections for each Bank-Member country separately and for other countries grouped by 18 geographic regions under three alternate assumptions about future fertility changes. These projections make it possible to produce estimates of the future population of countries, regions, etc., for males and females separately by single years of age at one-year interval for a 30-year period. Using these data, estimates of functional groups, such as school-age population, population in working ages, women in fertile ages etc., can be derived. (All Bank-Member Countries)

3. K.C.Zachariah and G. Zafros, Fertility, Mortality and Population Growth: Interrelation and Policy Implications, August 1973.

Examines the long-term implications of the interrelation between fertility and mortality rates for population programs in high mortality countries. The paper demonstrates, with the help of a series of model population projections, that in the early phase of a population program of a country with high birth rate and death rate it could be advantageous to concentrate on programs which include a strong component for the reduction of infant mortality. Such emphasis on mortality reduction is likely to accentuate some of the population problems in the short-run, but in the long run it should be highly beneficial, not only for improving the quality of life, but also for reducing the size of the total population. (Developing Countries).

4. K. C. Zachariah, Family Planning and Fertility Trends in Jamaica, August 1973.

Describes the recent trends in fertility in Jamaica and examines the factors which are associated with them. It concludes that there has been a noticeable decline in the fertility rates since the official family planning program was launched. However, it could not demonstrate any direct link between the decline in the fertility rates and the official programs. The paper gives several reasons for the lack of association between fertility decline and the official family planning efforts. (Jamaica)

Education

1. D. C. Rogers, The Economic Effects of Various Methods of Education Finance, May 1971.

Gives a survey of the main methods of educational finance and analyzes their economic effects. These effects are examined against the background of various objectives, such as resource mobilization, equality, internal and external efficiency of education, etc.

2. H. Thias and M. Carney, Cost-Benefit Analysis in Education: A Case Study on Kenya, 1972.

Public and private rates of return to different amounts of schooling, based on 1968 cost and earnings data collected in Kenya and adjusted for socio-economic and other factors; rates of return to increasing specific schooling inputs; supply and demand projections to 1974 for persons with different educational achievement. (Kenya).

3. S. Holm, Educational Plans, Models and Policies, February 1971.

Surveys existing educational models, the applicability of these models for educational planning in the Bank, reviews the Bank's educational lending policy, and proposes the introduction of hypothesis-testing elements into the Bank's educational projects.

4. J. Simmons, "The Report of the Faure Commission: One Step Forward and Two Steps Back," Journal of Higher Education, November 1973.

This paper will also appear as a Bank working paper. It reviews the major points of the Faure Commission Report and suggests that the Report has clarified some of the major problems faced by formal education systems around the world. Important omissions and contradictions of the report are also discussed.

5. J. Simmons, "How Effective is Schooling in Promoting Learning?", draft February 1973 and will be a working paper.

This is a review of the methods and data relating to why some children learn more than others and the role of schools in that learning process. While the data is based on the American experience, it provides useful insights and questions for the developing countries.

6. J. Simmons, "Determinants of Earnings: Towards an Improved Model," April 1973 and will be a working paper.

An improved model is developed, the earnings of a sample of Tunisian workers estimated as a function of their schooling, work experience, age, and personal characteristics. The results suggest that on-the-job learning may be more valuable than schooling.

7. J. Simmons, "The Internal Efficiency of Primary and Secondary Schools in Tunisia," draft May 1973 will become a working paper.

As part of the basic economic mission to Tunisia, primary and secondary school students were given achievement tests in Arabic, French and arithmetic. The results suggest that cognitive achievement may be much lower than expected among primary school graduates, even inadequate for reading newspapers.

Miscellaneous

1. K. C. Zachariah, Employment of Demographers in the IERD, July 1973.

Examines the impact of the World Bank's entry into the field of population and family planning on the employment of demographers within the Bank and in countries where Bank financed population projects are executed.

2. P. Newman, A Conceptual Framework for the Planning of Medicine in Developing Countries, May 1973.

Sets out a logically coherent framework within which to consider the role of health in economic and social planning for less developed countries.

3. S. M. Asher, A Survey of Literature on the Functioning of Labor Markets, February 1972.

Surveys the literature concerned with the functioning of labor markets in developing economies. Through the survey, special emphasis is given to delineating categorically the various imperfections of labor markets which interfere with the process of efficient labor absorption.

8. D. J. Turnham and E. K. Hawkins, Employment Problem and World Bank Activities, March 1973.

Discusses the approach to employment and development which has been emerging in international discussion in the last two to three years.

9. S. Anand, Input-Output Analysis Applied to Employment: A Case Study of Yugoslavia April 1972.

Reports some of the results from many input-output experiments conducted on Yugoslav data. One of the main purposes is to supply some quantitative insights into the employment potential of various sectoral policies. (Yugoslavia).

Employment and Income

1. D. Mazumdar, An International Comparison of Low Income in the Agricultural Sector in Selected LDC's, October 1971.

Develops a method for international comparison of income at particular points or ranges in income distributions, thereby permitting countries to be ranked, for example, by reference to the income position of the poorest groups.

2. D. Mazumdar, The Theory of Urban Underemployment in Less Developed Countries, May

Explores the relationship between the formal and informal sectors of an urban labor market which is fed by migrants from the rural areas responding to a positive rural-urban wage gap. The theoretical model explores the dynamic time path of such a labor market with two distinct but inter-related sectors. It helps to classify possible types of urban underemployment in LDC's.

3. D. Mazumdar, The Rural-Urban Wage Gap, Migration and the Shadow Wage, April 1972

Re-examines the Harberger theory that the shadow wage equals the market wage when we take into account "induced" migration in the presence of a rural-urban wage gap. An alternative (and hopefully more accurate) model is presented which shows that the Harberger result is dependent on very specific assumptions. The factors on which the value of the shadow wage depends are isolated.

4. D. Mazumdar, The Producer Co-operative with an Upward Sloping Supply Curve of Labor, November 1972.

Reconsiders the model of the producers co-operative which has been developed in the literature paying attention to two different sources of the upward slope the supply curve of labor. It makes the point that the conclusion about the equilibrium of the co-op: reached by Donar has to be modified when the upward slope is due to the rising supply price of effort of an individual member. The problem of optimum allocation of resources is an economy of co-ops with fixed membership but varying hours of work is explored. In the final section, the "long-run" equilibrium of the co-op: -- when it is free to vary its number of members as well as the hours of work of a member -- is analyzed.

5. G. Ranis, Employment and Income Distribution in Developing Countries, September 1972

Sets out the main issues that would confront the Bank as it considered adjusting its policies to take more explicit account of problems of employment and income distribution in developing countries.

6. I.M. Hume, Migrant Workers in Western Europe, March 1971.

Assembles the major statistical series of interest to economists, covering recent flows of manpower from Southern Europe and Mediterranean Basin countries into Western Europe.

7. I. M. Hume, Human Resources and Incomes in the Development of Yugoslavia, 1952-1972, February 1973.

Studies the population, migration, employment, and incomes and income distribution of Yugoslavia.

13. T. King, Economic Aspects of Population and Labor Force Growth in Brazil, October 1970.

Analyzes the present pattern and future trends of the size and structure of the Brazilian population and labor force, with particular attention to education and employment questions.

14. T. King "Budgeting Aspects of Population Policy. The Role of Benefit-Cost Analysis", Proceedings of the International Population Conference. Liege. 1973.

Discusses the role of benefit-cost analysis in general questions of budgetary allocation and the comparative merits of alternative approaches to population project appraisals both to each other and to other uses of benefit-cost analysis.

15. R. Repetto, Son Preference and Fertility Behaviour, April 1971.

Examines a common assertion that fertility behaviour is influenced by the desire to have one or more sons survive to adulthood. It applies economic methods to demographic data in a manner designed to discover whether such behaviour is supported by the data.

16. R. Repetto, Micro-Economic Theories of Fertility, July 1973.

Presents simple economic models of household behaviour to clarify the normative and predictive implications of so-called economic theories of fertility. The paper also contains some new empirical tests of hypotheses derived from economic theories of fertility and indicates some directions for further work on the investigation of the adjustment of actual to desired family size.

8. M. Hossain, Bangladesh Population Projections, 1961-2000, May 1972.

An assessment of the demographic situation following the cyclone of 1970 and the civil war of 1971 in Bangladesh, is made with information available in Washington. On this basis possible future trends in fertility, mortality and the size and composition of the population are estimated. (Bangladesh)

9. M. Hossain, From Population Policies to Family Planning Programs, September 1973.

This methodological note describes how Family Planning Targets can be set from clearly expressed population policies on the basis of data on population size and structure, fertility, mortality, migration and contraceptive continuation rates. A computer program suitable for working with the terminal facilities in the Bank is developed to facilitate fast computations. The methodology is illustrated with data from Iran. (Iran)

10. M. Hossain, A Study of Continuation Rates in Iran, September 1973.

On the basis of available data on Family Planning service statistics and more intensive data from a few clinics estimates of continuation rate for pill acceptors are made. The effect of inaccuracies in these estimates on FP targets are analysed. An attempt is made to identify some of the factors interrelated with length of contraceptive practice and the corresponding implications on operational policies. (Iran)

11. G.C.Zaidan, The Cost and Benefits of Family Planning Programs, 1971.

Presents a technique for measuring the economic returns from investing in population control, with an appraisal of inherent assumptions and limitations, as applied to the United Arab Republic (UAR).

12. T. King, The Measurement of the Economic Benefits from Family Planning Projects and Programs, March 1970.

Analyses the main economic issues that arise in attempting to evaluate the results of family planning programs and projects.

5. Joseph E. Choll, Fertility Profiles, August 1973

The Fertility Profiles are a set of tables covering 50 countries. They include:

- (1) data of a general demographic background: Mid-year Population estimates, growth rate, density, total female population, total female population in the age groups 15-44, and
- (2) fertility indicators such as: the crude birth rate (CBR), the age-specific fertility rate (ASFR) and the Gross Reproduction Rate (GRR).

The tables are prepared to include information covering the decade 1960-70 and where available, for one or more previous years.

The exercise is part of a wider research project covering most of the countries of the world and would attempt to include information on family planning activities in addition to the demographic indicators mentioned above (all countries).

6. Roberto Cuca, Evaluation of Family Planning Programs using Service Statistics, November 1972

Evaluates the output of a family planning program in terms of birth averted. The evaluation process consists of two steps: (a) conversion of number of acceptors into time-protection by the use of continuation rates; and (b) conversion of time-protection into births averted using age-specific fertility rates. Male contraceptives and abortion are also considered. The case of Tunisia is used as an illustration (Tunisia).

7. Edward Hawkins and Roberto Cuca, Population and the Balance of Payments, April 1973

Explores for planning purposes, the possible relationships of some aspects of international trade with the size, growth and composition of population. This paper was written as chapter 10 of the book Population and Development Planning, to be published by The Population Council, Inc.

8. J. Simmons, "Education and Income Distribution: Implications for Bank Lending," draft May 1973. This was prepared as a basis for discussion of questions relating to education and income distribution, suggests guidelines.
9. J. Simmons and Leigh Alexander, "A Review of Educational Production Functions and their Policy Implications," draft September 1973. This reviews the production function methods and the literature for developing countries.
10. J. Simmons, "Investment in Education Alternative National Strategies," draft September 1973. This paper reviews the experience and research on the results of investment in education and suggests the implications for developing countries.
11. J. Simmons, "Investment in Education: Alternatives for Bank Policies," Draft, October 1973. The paper outlines policies for lending.
12. J. Simmons, "A Review of Past and Future Economic Research on the Middle East and North Africa," Conference on research in the Middle East, the Center for Advanced Studies, Stanford, California, August, 1973.

September 27, 1973

Dear Professor George:

Thank you very much for the copy of your paper on "Fertility Analysis of a Rural Population of Kerala, India." I am very much interested to know a little more about the household survey. How far have you progressed in the tabulation and analysis of the data? Have you published any Report or Paper? If you have, can you send me copies?

The Paper contains a good deal of information on rural fertility around Trivandrum. It contains a lot of substantive information, but they are lost in the technical details. What demographers would like to know is answers to some simple questions: What is the level of fertility? (one measure GRR or TFR is more than sufficient). What was the trend during 1964-1967? Is the observed trend real or is it due to errors (sampling and non-sampling) in the data? How much of the observed decline in specific fertility rates due to family planning programs, and how much due to other factors? Are there much variation in GRR by socio-economic characteristics of households? With the data you have, you can answer these and a number of similar interesting questions. I hope you will rewrite the paper by excluding all the technical details (Brass, Curve fitting, etc.,) and concentrating on the substantive questions. It will be a very good article for Population Studies or Demography, India.

If I can be of some assistance, please let me know.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

Professor A. George
Department of Statistics
Kerala University
Karyavaltom Post
Trivandrum
INDIA

KCZachariah:st

September 27, 1973

My dear Thavarajah:

I have read Chapter IV of your thesis once again. My main criticism was about the confusion between migrants and migration.

You say that "nearly 99 percent of all cityward migrants went to the urban places in Lower Egypt" (p, 91-92). Can you really say this from your table? Your figures do not give an estimate of the number of cityward migrants. What you have is net-migration from rural to urban; the net gain due to migration in Cairo, Alexandria, etc. In the former the origin is known rural, in the latter the origin can be rural or urban. Migrants in Cairo can come from towns of Upper Egypt. If so, cityward migration in Upper Egypt may be much larger than what you have indicated. I suggest that you rewrite the section: "Components of change by size of place" (p. 90) by deleting the paragraphs not related to the topic, expanding those related to the heading and avoiding the confusion between net-migration and gross-migrants.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

Mr. A. Thavarajah
UNFPA
485 Lexington Avenue
New York, NY 10017

KCZachariah:st

Mr. Murray Ross

September 17, 1973

K.C. Zachariah *KC*

Working Paper on: Family Planning and Fertility Trends in Jamaica

On the basis of some materials which I gathered when I visited Jamaica last November as a member of the Economic Mission, I prepared the attached paper which gives an evaluation of the family planning program and fertility trends in Jamaica. I would like to receive your comments before I distribute it as a Staff Working Paper.

Attachment:

KCZachariah:st

PAPERS WRITTEN BY K.C. ZACHARIAH

1. TITLE: "Problems of Applying Stable Population Techniques in Estimating Demographic Measures for Arab Countries"

AUTHOR: K.C. Zachariah

SUBJECT: Population

COUNTRY: Arab Countries

ABSTRACT: The paper describes an alternative approach to the problems of adjusting birth rates estimated by the stable population method for the effects of recent declines in mortality. Although the method was developed for Arab Countries, it has much wider applicability.

2. TITLE: Population Projections for Bank Member Countries, 1970-2000

AUTHORS: K.C. Zachariah and R. Guca

SUBJECT: Population

COUNTRY: All Bank-Member Countries

ABSTRACT: The paper presents population projections for each Bank-Member Country separately and for other countries grouped by 18 geographic regions under three alternate assumptions about future fertility changes. These projections make it possible to produce estimates of the future population of countries, regions, etc., for males and females separately by single years of age at one-year interval for a 30-year period. Using these data, estimates of functional groups such as school-age population, population in working ages, women in fertile ages etc., can be derived.

3. TITLE: "Employment of Demographers in the IBRD"

AUTHOR: K.C. Zachariah

SUBJECT: Miscellaneous

COUNTRY: No Country Specification

ABSTRACT: This paper examines the impact of the World Bank's entry into the field of population and family planning on the employment of demographers within the Bank and in countries where Bank financed population projects are executed.

4. TITLE: "Fertility, Mortality and Population Growth: Interrelation and Policy Implications"

AUTHORS: K.C. Zachariah and G. Zafros

SUBJECT: Population

COUNTRY: Developing Countries

ABSTRACT: This paper examines the long-term implications of the interrelation between fertility and mortality rates for population programs in high mortality countries. The paper demonstrates, with the help of a series of model population projections, that in the early phase of a population program of a country with high birth rate and death rate it could be advantageous to concentrate on programs which include a strong component for the reduction of infant mortality. Such emphasis on mortality reduction is likely to accentuate some of the population problems in the short-run, but in the long run it should be highly beneficial, not only for improving the quality of life, but also for reducing the size of the total population.

5. TITLE: "Family Planning Fertility Trends in Jamaica"

AUTHOR: K.C. Zachariah

SUBJECT: Population

COUNTRY: Jamaica

ABSTRACT: This paper describes the recent trends in fertility in Jamaica and examines the factors which are associated with them. It concludes that there has been a noticeable decline in the fertility rates since the official family planning program was launched. However, it could not demonstrate any direct link between the decline in the fertility rates and the official programs. The paper gives several reasons for the lack of association between fertility decline and the official family planning efforts.

September 10, 1973

Information Officer
International Statistical Institute
2 Oostduinlaan
The Hague
Netherlands

Dear Sir:

Please include my name on the mailing list for the
World Fertility Survey Newsletter.

Sincerely yours,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

KCZACHARIAH:st

August 14, 1973

Professor Richard A. Easterlin
Department of Economics
University of Pennsylvania
3718 Locust Walk
Philadelphia, PA 19104

Dear Professor Easterlin:

I am glad that I was able to meet you in Philadelphia and talk with you about the possibility of my participation in your research program. On my return to Washington I read Mr. Leets' theses on Ohio and the other materials you sent me earlier. The project will require much greater attention than I can provide on a part-time basis by continuing in the Bank. As you know very well, the data situation is not so good in most of the Asian countries as for the USA and it will require considerable effort to assemble them in a usable form. Therefore, I feel that I will be justified in taking up this work only if I can devote a whole year on a full-time basis. In my present circumstances it will be difficult for me to do so,

If you are unable to find a suitable person for the work in the near future, I suggest you consider Mrs. Visaria as a possibility. She has a Ph.D. from Princeton. Her husband Mr. Pravin Visaria will be joining our Division in December. Mrs. Visaria will be coming to Washington with her husband and is looking for a job.

With kind regards,

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

KCZACHARIAH:st
BCC: Mr. T. King

August 13, 1973

Professor David V. Glass
London School of Economics
Houghton Street, Aldwych
London WC2A 2AE,
England

Dear Professor Glass:

Please find enclosed my paper on "Employment of
Demographic Personnel in the IBRD" for inclusion in
your study on teaching of demography and training in
population.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

Enclosure

KCZACHARIAH:st

August 2, 1973

Professor G. W. Roberts
University of the West Indies
Department of Sociology
Mona
Kingston 7, Jamaica

Dear Professor Roberts:

Sid showed me your letter indicating your willingness to provide us with census materials of Caribbean countries for our study of this region. We appreciate very much your cooperation in this matter. As you perhaps know from him I am responsible for the demographic part of this exercise. Because of lack of data I have not been able to make even a beginning in this matter. If I can get the basic age-sex composition of the population and the distribution of labor force by age and sex a good deal of progress can be made. I, therefore, request you, in the first instance, to send me the information listed in the attachment. If you are coming to Liege for the IUSSP meetings during 27-31 August, I hope to discuss with you my priorities for other tables.

With best wishes,

Sincerely yours,

K. C. Zachariah

Enclosure

cc: Mr. S. Chernick, PPR

KCZachariah:mw

A. Data (All at the national level)

1. Population by age and sex (Table 1 of my previous list)
2. Labor force by age and sex (Table 23, or 24, or 25 for working population, and a similar table for the unemployed).
3. Births, deaths and international migration, 1943-1972 (preferably annual data, otherwise intercensal data).
4. Current (1972 or 1973) birth rates, death rates, specific fertility rates and expectation of life at birth.

B. Countries

Barbados	Montserrat
Br. Honduras	St. Kitts
Dominica	St. Lucia
Granada	St. Vincent
Guyana	Trinidad and Tobago
Jamaica	

Mr. William Clark

July 31, 1973

K. C. Zachariah

Publication of a paper entitled: Employment of Demographic
Personnel in the IBRD

1. At the request of Professor D. V. Glass, Chairman, Committee on Teaching of Demography and Training on Population, International Union for the Scientific Study of Population (IUSSP), I have prepared the attached paper entitled: "Employment of Demographic Personnel in the IBRD." This paper is expected to be published as an IUSSP publication along with similar contributions from the United Nations, WHO, ILO, FAO, UNFPA, etc.

2. I would like to receive clearance from you before sending the paper to Professor Glass.

Attachment:

cc: Mr. K. Kanagaratnam
Mr. E. K. Hawkins (o/r)
Mr. T. King

KCZ:st

K.C. Zachariah
June 28, 1974

Task Sheet - 1974

<u>Task</u>	<u>Weeks</u>	
1. Annual Leave	2	(July 1973 one week June 1974 one week)
2. Caribbean study	12	(July - November 1973)
3. Fertility Profile	4	
4. Senegal Economic Mission (?)	12	April-June 1974
5. International Population Meetings:		
IUSSP	1	August 1973
Population Commission	2	November 1973
Migration Seminar	1	December 1973
		<hr/>
	TOTAL	34
6. Unallotted: balance of the year		

Dr. K. Kanagaratnam - PNP

June 28, 1973

K.C. Zachariah *KCZ*

Paper on Employment of Demographers in the IBRD

At the request of Professor D.V. Glass, I have prepared the attached draft for a paper on employment of demographers in the World Bank. This paper is expected to be included in a forthcoming publication by IUSSP's Committee on Teaching of Demography and Training on Population of which Professor Glass is the Chairman. Some of the other persons contributing papers on employment of demographers in international organizations are: M. El-Badry (United Nations), H. Hansluwka (WHO), J. Ypsilantis (ILO), J. Berent (ECE), Schulte (FAO). Contributions from UNESCO, UNFPA and other UN regional commissions were expected, but I do not know the names of the authors.

The draft has several gaps, especially Tables 1 and 4, and with the materials I have access to I find it difficult to fill them. I would very much appreciate your help in filling these gaps. If there is need, I can arrange to send one of our research assistants to extract the necessary information.

I will send you a copy of the final version for clearance before I send the paper to Professor Glass.

KCZACHARIAH:cor

Mr. Norman Horsley

June 11, 1973

K. C. Zachariah

Mission assignment of Mr. Gregory Zafros

1. In your memo to me on the above subject, you indicated that Mr. Zafros will be required to cover the following areas for the forthcoming regional mission to Bosnia-Herzegovina:

1. Population
2. Labor Force
3. Employment
4. Income Distribution
5. Health (including Family Planning)
6. Education
7. Manpower Development

2. I discussed the matter further with Mr. Zafros, and I feel that these topics are too extensive to be sufficiently covered by him. I suggest that his areas of responsibility be reduced to two broad categories, Population and Employment, as described below:

1. Population - to include a brief analysis of family planning
2. Employment - to include labor force and income distribution

3. I also feel that one week is too short a period for him to conclude his field interviews. Two weeks may be more appropriate.

cc: M/s. G. Zafros
O. Maiss
E. K. Hawkins

GZ:mmv

Mr. Donald W. Jeffries, Chief of Training
Personnel Department
K. Zachariah, Acting Division Chief, P&HR, DED

June 11, 1973

Authorization for E.P. Jones to take a Night-Time Course

This is to request that your division authorize E.P. Jones, a Research Assistant in this division, to take a night-time summer school graduate course in economic mathematics at Georgetown University, and provide for the appropriate level of reimbursement if he successfully completes the course.

It is expected this course will materially advance Mr. Jones's capabilities in the area of economic mathematics. Such improved capabilities are necessary for Mr. Jones to carry out the work which this division wishes him to do.

This would in no way conflict with his present responsibilities at the Bank. N

Normal registration for this course ends today, Monday, June 11. If it is possible to obtain authorization immediately, therefore, I would be most appreciative.

The tuition for this course is US\$210. It extends from June through August.

KZachariah;ed

Cleared with and cc: Mr. John Simmons, P&HR, DED

cc: Mr. Ravi Gulhati, Deputy Director, DED

Mr. John Simmons, P&HR, DED

June 7, 1973

K. Zachariah, Acting Division Chief, P&HR, DED

Terms of Reference - Work on Tunisian Data in Boston

On or around June 13, you will proceed to Boston, Massachusetts to work on education data for the Tunisian Basic Economic Mission.

Upon your return to Washington on June 14, you will submit a brief back-to-office report.

KZachariah:ed

Cleared with and cc: Mr. R. Gulhati, Deputy Director, DED

Dr. Masihur Rahman Khan
Bangladesh Institute of Development
Economics
Adamjee Court
Matijheel Commercial Area
Dacca-2
Bangladesh

May 29, 1973

Dear Dr. Khan:

I am glad to know that you have been admitted to the Ph.D. degree by the Australian National University. I have a copy of your thesis. Apart from the comments which I made at the time of your examination I have nothing else to add. I feel that you have produced an excellent analysis of the pattern of migration in the subcontinent during 1901-1961. I strongly recommend publication of the thesis in the present form. If, however, your publisher wishes to reduce the size, I suggest you exclude Sections I and II dealing with adjustment and accuracy of data and modify the introductory section accordingly. Alternatively, you may add an appendix on adjustment and accuracy of data instead of the two sections in the text.

With best wishes.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

Bangladesh Institute of Development Economics

Adamjee Court, Motijheel Commercial Area, Dacca-2

Our Reference _____

Date May 4, 1973

Dr. K.C. Zachariah
Senior Demographer
Economics Department
International Bank for Reconstruction
and Development
1818 H.St., NN
Washington D.C., 20433
U.S.A.

Dear Dr. Zachariah:

I am very pleased to inform you that I have now been officially admitted to the degree of Ph.D. by the Australian National University. I want to take this opportunity to express my thanks to you for your very favourable comments on my thesis.

I understand that you will have with you a copy of my thesis. You being an expert and most able person professionally, I am writing to you to seek your advice if I can publish my thesis in its present form. In my opinion it is quite revealing and has a good deal to contribute in understanding the pattern of migration in the subcontinent during the period 1901-61. However, I would like to know your feeling about it.

Back home we are in the process of reorganising the Institute. It is hoped that the Demography Section (proposed to be reconstituted as Population Centre) within BIDE will play the important role in population research and training in Bangladesh.

Expecting professional help and cooperation in the years to come,

Sincerely yours,

Masihur Rahman Khan
Masihur Rahman Khan
Research Demographer

Researcher Demographic
National Research Center

Wesley J. ...
Director

the least to come.

Expecting professional help and cooperation in
research and planning in Bangladesh.
Within BIDE will buy the independent role in Bangladesh
(planned to be incorporated as Bangladesh Centre)
the Institute. It is hoped that the demographic section
back home will be in the process of reorganizing

around it.

Today - I would like to know how feeling
of satisfaction in the accomplishment during the period
good deal to contribute in understanding the better
world. In my opinion it is quite necessary and we
will realize it I can highlight the future in the present
between Bangladesh. I am writing to you to seek
copy of my future. You will be able to work with
I understand that you will have much to

for you will realize the comments on my future.
Take this opportunity to express my thanks to you
for the assistance and support provided. I want to
nom been officially admitted to the degree of Ph.D.
I am well pleased to inform you that I have

Best DL. Researcher:

P.S.V.

Washington D.C. 20542

1978 H.24.111

and development

International Bank for Reconstruction

Economic Development

Center Demographic

Dr. K.C. Researcher

One reference

Date May 4, 1978

Adviser Center: Washington Commercial Area, Dec-7.

Bangladesh Institute of Development Economics

Dr. S.K. Sinha
The University of Manitoba
Department of Statistics
Winnipeg
CANADA

April 19, 1973

My Dear Sinha:

The delay in replying to your letter was due to my absence from Washington. If you are interested in a year's assignment at the Bank, I suggest that you fill-up the enclosed form and return it to: Director, Personnel Department at the above address, with a covering letter explaining your requirements.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department



THE UNIVERSITY OF MANITOBA

DEPARTMENT OF STATISTICS

WINNIPEG, CANADA

March 20/73.

Dr. K. C. Zachariah,
World Bank,
Washington, D.C.
U.S.A.

Dear Dr. Zachariah,

I will be on a year's sabbatical leave from Sept/73 to Aug/74 and I wish to work for the World Bank during this period. I will greatly appreciate any information you can give me on whom and where I should write about it.

I am enclosing a short resume' about my qualifications and experiences.

Personal regards.

Yours sincerely,

S.K. Sinha
S. K. Sinha, Ph.D
Associate Professor.

My dear Senha,

The delay in replying your letter was due to being away from Winnipeg. If you are interested in a year assignment at the Bank, I suggest that you fill up the enclosed form and submit to: Director, Personnel Department, World Bank, 1818 H Street, N.W. 20037. Explain with a covering letter explaining your requirements.

Yours truly



THE UNIVERSITY OF MANITOBA

WINNIPEG, CANADA

DEPARTMENT OF AGRICULTURE

March 20/73.

Dr. R. C. Zaehnerish,
World Bank,
Washington, D.C.,
U.S.A.

Dear Dr. Zaehnerish,

I will be on a year's sabbatical leave
from Sept/73 to Aug/74 and I wish to work for the World Bank
during this period. I will greatly appreciate any information
you can give me as to whom and where I should write about it.

I am enclosing a short resume of my
qualifications and experience.

Personal regards.

Yours sincerely,

S. W. Sims, B.A.
Associate Professor.

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Withdrawn by Chandra Kumar	Date 13-Feb-15			

I.- Représentants de centres recevant une aide financière.
Representants of Centers receiving financial help.

Nom et adresse des centres Name and address of centers	Nom du directeur Name of director	Noms des participants Names of participants
THE POPULATION AND DEVELOPMENT STUDIES CENTER College of Liberal Arts and Sciences Seoul National University SEOUL (Corée)	Hae Yong Lee	Fui Yong Yu
CENTER FOR POPULATION AND FAMILY PLANNING Yonsei University I.P.O. Box 1010 SEOUL (Corée)	Jae Mo Yang	Kee Chun Han
DEMOGRAPHIC RESEARCH CENTER Bureau of Economics and Statistics TRIVANDRUM 1 . Kerala (Inde)	N.Gopalakrishnan Nair	Gopinathan Nair
INTERNATIONAL INSTITUTE FOR POPULATION STUDIES Deonar, Govandi Station Road BOMBAY 88 (Inde)	S.N. Agarwala	Miss Sumati Kshirsaga
DEMOGRAPHIC RESEARCH CENTRE Faculty of Science Lokmanya Tilak Road BARODA 2 (Inde)	Mrs. Indira Bhanot	M.M. Gandotra
DEMOGRAPHY SECTION Gokhale Institute of Politics and Economics Deccan Gymkhana POONA 4 (Inde)	Kumudini Dandekar	Kumudini Dandekar
DEMOGRAPHIC RESEARCH CENTRE Institute of Economic Growth University Enclave DELHI 7 (Inde)	Ashish Bose	P.B. Desai
OFFICE OF THE REGISTRAR GENERAL 2 A Man Singh Road DELHI 11 (Inde)	A. Chandra Sekhar	S. Raghavachari
POPULATION STUDIES CENTER National Institute of Economic and Social Research Djalan Gondangdia Lama 39 . P.O. Box 310 DJAKARTA (Indonésie)	Suharso	Suharso
STATISTICAL CENTRE OF IRAN N° 1, Estakhr St. Iran Novin Ave. TEHERAN (Iran)	Chapour-Rassekh	M. Sotoudeh-Zand
DEPARTMENT OF DEMOGRAPHY The Hebrew University of Jerusalem JERUSALEM (Israël)	Dov Friedlander	Dov Friedlander

I.- Représentants de centres recevant une aide financière.
Representants of Centers receiving financial help.

Nom et adresse des centres Name and address of centers	Nom du directeur Name of director	Noms des participants Names of participants
SOCIAL SCIENCES RESEARCH CENTRE University of Punjab (New Campus) LAHORE (Pakistan)	Mazhar Hussain	Mazhar Hussain
INSTITUTE OF POPULATION STUDIES Hacettepe University ANKARA (Turquie)	Hüsnü Kiscnisci	Serim Timur
CENTRO BRASILEIRO DE ESTUDOS DEMOGRAFICOS Avenue du Président Wilson 210 RIO DE JANEIRO (Brésil)	Joao Lyra Madeira	Miss V. da Motta Leite
CENTRO DE ESTUDOS DE DINAMICA POPULACIONAL Faculdade de Saúde Publica Avenida Dr. Arnaldo 715 SAO PAULO (Brésil)	Candido Procopio Ferreira de Camargo	Jair L. Ferreira Santos
CENTRO BRASILEIRO DE ANALISE E PLANEJAMENTO Rua Bahia 499, Higienopolis SAO PAULO (Brésil)	Candido Procopio Ferreira de Camargo	Issa Gonçalves
CENTRO LATINOAMERICANO DE DEMOGRAFIA (Subsede) Apartado Postal 5249 SAN JOSE (Costa Rica)	Guillermo A. Maccio	Guillermo A. Maccio Joop I. Alberts
CENTRO DE ESTUDIOS SOCIALES Y DE POBLACION Universidad de Costa Rica SAN JOSE (Costa Rica)	Ricardo Jimenez	Fernando Zumbado
DIRECTION DES STATISTIQUES Sous-Direction des Statistiques Démographiques 8 rue Desfontaines ALGER (Algérie)	Ali Oubouzar	Ali Oubouzar (non encore confirmé officiellement. Not officially confirmed).
INSTITUTE OF STATISTICAL STUDIES AND RESEARCH Tharwat St. Giza University Post Office CAIRO (République Arabe d'Egypte)	A.E. Sarhan	Atef M. Khalifa
CENSUS OFFICE P.O. Box 1350 ACCRA (Ghana)	K.T. de Graft-Johnson	E.O. Tawiah
CENTRE DE RECHERCHES ET D'ETUDES DEMOGRAPHIQUES B.P. 178 RABAT (Maroc)	Mohamed Rachidi	Mohamed Rachidi
CENTRE D'ETUDES ET DE RECHERCHES ECONOMIQUES ET SOCIALES 23, rue d'Espagne TUNIS (Tunisie)	A. Bouhdiba	M. B'Chir

II. Représentants de centres ne recevant pas d'aide financière.
Representants of Centers not receiving financial help.

Nom et adresse des centres Name and address of centers	Nom du directeur Name of director	Noms des participants Names of participants
INTERNATIONAL POPULATION PROGRAM Cornell University Social Sciences Building ITHACA, New York 14850 (U.S.A.)	J. Mayone Stycos	Aaron Segal
DEPARTEMENT DE DEMOGRAPHIE Université catholique de Louvain Van Evenstraat 2a B - 3000. LOUVAIN (Belgique)	Guillaume Wunsch	Hubert Gérard
POPULATION STUDIES AND TRAINING CENTER Department of Sociology Brown University PROVIDENCE, Rhode Island 02912 (U.S.A.)	Sidney Goldstein	Alden Speare Jr. ^{c)} Sethurameiah Rao ^{c)}
INSTITUTE OF SOCIAL SCIENCES Narodnog fronta br. 45 BELGRADE (Yougoslavie)	Dusan Breznik	Dusan Breznik ^{c)}
INSTITUT ZA HIGIJENU I SOCIJALNU MEDICINU Mose Pijade 6 71000. SARAJEVO (Yougoslavie)	Grujica Zarkovic	Grujica Zarkovic
DEPARTMENT OF SOCIOLOGY The University of Western Ontario LONDON 72, Ontario, (Canada)	T.R. Balakrishnan	K.G. Basaverajappa
THE EAST-WEST POPULATION INSTITUTE The East-West Center 1777 East-West Road HONOLULU, Hawaii 96822, (U.S.A.)	Paul Demeny	Paul Demeny ^{a)} Geoffrey McNicoll
POPULATION STUDIES CENTER University of Pennsylvania 3718 Locust Street PHILADELPHIA, Pennsylvania 19104, (U.S.A.)	Vincent H. Whitney	George Masnick ^{c)}
INSTITUT FÜR WELTWIRTSCHAFT an der Universität Kiel Düsternbrooker Weg 120-122 D-23 KIEL (Germany)	Herbert Giersch	Hilde Wander
ISTITUTO DI SCIENZE DEMOGRAFICHE Facolta di Economia e Commercio Viale delle Scienze Parco d'Orleans 90128-PALERMO (Italie)	Stefano Somogyi	Stefano Somogyi

II. Représentants de centres ne recevant pas d'aide financière.
Representants of Centers not receiving financial help.

Nom et adresse des centres Name and address of centers	Nom du directeur Name of director	Noms des participants Names of participants
COMMISSION NATIONALE DE DEMOGRAPHIE Calea Victoriei 49-53 BUCAREST (Roumanie)	Iosef Ionescu	Constantin Grigorescu ^c
INSTITUT DE RECHERCHES DEMOGRAPHIQUES V. Veres Palné u.10 BUDAPEST (Hongrie)	Egon Szabady	Egon Szabady ^{a)}
OFFICE FOR POPULATION STUDIES c/o University of San Carlos CEBU CITY (Philippines)	Wilhelm Flieger	Wilhelm Flieger
INSTITUTE OF DEMOGRAPHY University of Rome Via Nomentana 41 00161 - ROME (Italy)	Mme Nora Federici	Antonio Golini Ornello Vitali
COMITATO ITALIANO PER LO STUDIO DEI PROBLEMI DELLA POPOLAZIONE Via Nomentana 41 00161 - ROME (Italy)	Mme Nora Federici	Eugenio Sonnino Luciano Ciucci
STATISTICAL INSTITUTE Demography Division University of Copenhagen Sct. Pedersstraede 19 DK 1453 COPENHAGEN K (Danemark)	P.C. Matthiessen	P.C. Matthiessen
DEPARTEMENT DE DEMOGRAPHIE Université de Montréal Case Postale 6128 MONTREAL 101 (Canada)	Jacques Henripin	Victor Piché
JOHNS HOPKINS UNIVERSITY POPULATION CENTER 615 North Wolfe Street BALTIMORE, Maryland 21205 (U.S.A.)	W. Henry Mosley	John F. Kantner Ismail Sirageldin
CENTRO DE INVESTIGACIONES SOCIALES DEL INSTITUTO TORCUATO DI TELLA Superi 1502 BUENOS AIRES (Argentine)	Ezequiel Gallo	Mrs Z.Recchini de Latte ^{a)}
POPULATION INSTITUTE Padre Faura. P.O. Box 479 MANILA (Philippines)	Miss Mercedes Concepcion	Miss M. Concepcion ^{a)}
POPULATION RESEARCH CENTER 1413 E. 60 th Street CHICAGO, Illinois 60637 (U.S.A.)	Philip. Hauser	Philip Hauser ^{a)}

II. Représentants de centres ne recevant pas d'aide financière.
Representants of Centers not receiving financial help.

Nom et adresse des centres Name and address of centers	Nom du directeur Name of director	Noms des participants Names of participants
EKONOMSKI INSTITUT Marsala Tita 16 BELGRADE (Yougoslavie)	Dusan Bjelogrljic	Milos Macura ^{a)}
LEMBAGA DEMOGRAFI Fakultas Ekonomi Universitas Indonesia Djalan Salemba 4 DJAKARTA (Indonesia)	Nathaniel Iskandar	Nathaniel Iskandar ^{a)}
THE POPULATION COUNCIL Demographic Division 245 Park Avenue NEW YORK N.Y. 10017 (U.S.A.)	Bernard Berelson	Thomas Frejka
INSTITUT NATIONAL D'ETUDES DEMOGRAPHIQUES 27, rue du Commandeur 75675 - PARIS CEDEX 14 (France)	Gérard Calot	Henri Léridon
CENTRO ESTUDIOS ECONOMICOS DEMOGRAFICOS Colegio de Mexico Guanajuato 125 MEXICO 125 (Mexique)	Gustavo Cabrera	Gustavo Cabrera ^{a)}
INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH University of the West Indies ST. AUGUSTINE (Trinidad)	Jack Harewood ^{b)}	Jack Harewood
FLECHTER SCHOOL OF LAW AND DIPLOMACY Law and Population Programme Tufts University MEDFORD, Massachusetts 02155 (U.S.A.)	Luke T. Lee	Luke T. Lee

a) Payé sur le budget de la Seconde Assemblée.
Paid on the budget of the 2d Assembly.

b) Centre invitant le séminaire.
Center inviting the seminar.

c) Financement non assuré.
Financing not yet found.

Mr. Prafulla C. Bebarta
18 L USU Apts.
LOGAN, Utah 84321

March 26, 1973

My Dear Bebarta:

I will be happy to recommend you for the position
in ECAFE. I am glad to note that you have been doing good
work since you left Bombay.

With best wishes.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

KCZACHARIAH:cor

Professor Richard A. Easterlin
Department of Economics
University of Pennsylvania
3718 Locust Walk
Philadelphia Pa. 19104

March 1, 1973

Dear Professor Easterlin:

I have discussed your research proposal with my colleagues here and they seem to be very much interested, especially because it is in line with the research program of the Division. However, I have some difficulty at the present time to suggest any concrete arrangements. Our Division Chief, Mr. E.K. Hawkins, has been promoted as an adviser and the new chief, Mr. Timothy King, will join only in June. He is now working in our New Delhi Office. I am advised to await his return to Washington before I proceed further with the proposal. I have a feeling that Mr. King will like the project and that we will be able to work out something.

With kind regards.

Yours sincerely,

K.C. Zachariah
Population and Human Resources Division
Development Economics Department

KCZachariah:cor

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

The Wharton School

DEPARTMENT OF ECONOMICS
3718 LOCUST WALK

February 9, 1973

Dr. K.C. Zachariah
International Bank for Reconstruction
and Development
1818 H. Street
Washington, D.C., N.W. 20433

Dear Zachariah:

I was very encouraged by your interest in possibly participating in our population pressure study. Enclosed are: (1) the research plan for the NIH funded study (I am working on the United States and Marvin McInnis on Canada); (2) the Rockefeller Foundation proposal of the Population Studies Center in which Appendix A describes the project that I hope you will be interested in pursuing; (3) a short paper by me that conveys in very simple form some of the relations that we are interested in exploring between population pressure on the one hand and fertility, migration, and economic change on the other.

I mentioned Donald Leet's thesis as an example of some of our most recent work on the North America part of the study. Also, J.N. Sinha's work for ECAFE would be pertinent to your study. Finally, Seetheram's dissertation here on Madras might be worth looking into. These are just some materials that might convey some additional idea of the possibilities in the project.

I do hope it will be possible for us to work something out, and I look forward to hearing from you at your convenience.

Sincerely,



Richard A. Easterlin
Professor of Economics

RAE:del

DEMOGRAPHY -- REFEREE'S COMMENTS FOR AUTHOR (Will be sent directly to the author)

Manuscript: FERTILITY AND MORTALITY IN INDIA, 1970

The main purpose of the paper is to estimate the Indian birth rate in 1970. The conclusion is that the rate is about 38. I have no disagreement with this level; other evidences seem to support a birth rate of about that level. If the conclusion is correct, the birth rate seems to have declined in recent years. This is a very important substantive conclusion which is not mentioned in the paper. One technical difficulty in pointing out this important conclusion is that some of the methods assume that fertility has remained constant in recent years. There is considerable evidence to show that the Indian fertility has declined somewhat in recent years. I would like the author to discuss the implications of this decline on his methodology.

In his use of Brass's method (Table 3) the author estimates age-specific marital fertility. If I understood correctly, Brass used age-specific fertility for all women (see Chapter VII in UN Manual IV). How far is he justified in using Brass's multipliers for age-specific marital fertility? Are the P_i values in Tables 3 and 5 average for married women or for all women?

The method of adjusting birth rates for error in the sex ratio implies that only boys were omitted in ORG survey (page 19). In the Indian setting, this is most unlikely.

The methods used by the author are described and illustrated in UN manuals and other publications. Some of the details given in the paper, therefore, seem unnecessary (eg. Table 2).

Since the 1971 census age data were available to the author he could have used them to derive another estimate of the birth rate. This would have been useful not only for an independent estimate of the birth rate, but also for checking the adequacy of the ORG sample.

Date sent February 6, 1973(Please return at once if you cannot
evaluate manuscript within ten days ~~xx~~
after receiving it).

DEMOGRAPHY

REFEREE'S REPORT TO THE EDITOR ON FERTILITY AND MORTALITY IN INDIA, 1970

RECOMMENDATIONS

check
onecheck
one

- a) Publishable as submitted
or with only minor editorial changes
- Yes — High priority —
Low priority —
- No X — Encourage revision X
Do not encourage —

b) Send to the following referee: _____

c) Evaluation for the editor, not the author:

The paper requires considerable revision, both from the substantive
and editorial points of view. My comments on substantive points are attached.

SUGGESTIONS FOR REVISION, EDITORIAL AND SUBSTANTIVE, SHOULD BE MADE ON THE ATTACHED
PAGES (IN DUPLICATE) FOR TRANSMITTAL TO THE AUTHOR.

Referee's signature _____ Date February 28, 1973PLEASE RETURN MANUSCRIPT WHEN RETURNING EVALUATION FORMS. THANK YOU.

Charles B. Nam, Editor, DEMOGRAPHY
Population and Manpower Research Center, Institute for Social Research
Florida State University, Tallahassee, Florida 32306



INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT

RESIDENT MISSION IN INDIA

53 Lodi Estate, New Delhi-3

Telephone 617241

Cable Address - INTBAFRAD NEW DELHI - Postal Address - P.O. Box 416

Letter No. 84

February 20, 1973

Mr. Kunniparampil C. Zachariah
Economics Department
International Bank for Reconstruction
and Development,
1818 H Street, N.W.
Washington, D.C.

Dear Mr. Zachariah,

We are in the midst of our annual effort in the preparation of an economic report for India, and in this context we require urgently a copy of a publication of your department - World Bank Population Projections.

I shall be most grateful therefore if you will kindly arrange to air mail a copy for the New Delhi Mission.

— Sent
2/27/73

With many thanks,

Sincerely yours,

Sunanda Sengupta

Sunanda Sengupta

cc: Miss D. Murphy
Mr. Krastev

Headquarters:
Washington, D.C., U.S.A.



INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT

RESIDENT REPRESENTATIVE IN INDIA

53 Lodi Estate, New Delhi 3

Telephone 617241. Cable Address - INTBAFRAD NEW DELHI. Postal Address - P.O. Box 416

February 8, 1973

Letter No. 61

Mr. K.C. Zachariah
Economics Department
International Bank for Reconstruction
and Development
1818 H Street NW
Washington DC

Dear Zach,

I have had another request for the Bank's population projections -
do you think you could send me a further two or three copies?

With best regards,

Yours sincerely,

Tim

Timothy King

Saw 2/15/73

RECEIVED

Miss Barbara D. Segal
Research Assistant to
the Committee
International Union for the Scientific
Study of Population
Rue Forgeur 5
4000 Liege
Belgium

January 4, 1973

Dear Miss Segal:

I will be happy to write a paper on "Employment
of Demographic Personnel in IBRD" by July 1973 for inclusion
in Professor Glass's study of teaching of demography and
training in population.

Yours sincerely,



K.C. Zachariah
Population and Human Resources Division
Development Economics Department

cc: Mr. E.K. Hawkins

KCZachariah:cor

PHWPR

file: Work program
review

Denning 6/10/86
re Work Program Review

~~Communities~~
Outside resources needed

Shld be 1 major paper each year --
4 papers over 4 years.

Then could "mine" people in
operations, 6-12 months

pharmaceuticals/
vis-a-vis
WHO

Have Management Group review, so it's a
Department

TIME IN:

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(9-86)THE WORLD BANK/IFC
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ANY OTHER SPECIAL INSTRUCTIONS?

Thanks!

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Heri Saito

ROOM NO.:

N 456

EXTENSION:

61586

DEPT. NO.:

306

DIV. NO.:

07

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THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

DATE : March 17, 1987

TO : PHN Staff

HWB

FROM : Howard N. Barnum, Acting Chief, PHNPR

EXTENSION : 61964

SUBJECT : PHNPR Work Program for FY87-88

1. The attached paper is a description of the ongoing and planned activities of the Policy and Research Division for FY87-88. It provides a brief history of the Policy Group, describes current and upcoming activities by their corresponding objective and reviews the research program.
2. The paper will be used for internal review purposes in the Department and in the Bank, but it will also be distributed outside the Bank to increase awareness of PHNPR's activities.

Attachment

HBarnum/am

The World Bank

Population, Health and Nutrition Department

POLICY AND RESEARCH DIVISION

Fiscal Year 1987-1989 Work Program

January 1987

PREFACE

The following note presents the work program of the Policy and Research Division of the World Bank Population, Health and Nutrition Department for the fiscal years 1987 through 1989. Although this note was prepared mainly for internal review purposes in the Department and in the Bank, it may be circulated outside the Bank to increase awareness of the Department's policy and research activities.

The Population, Health and Nutrition Department is part of the Operations Policy Staff Vice Presidency.

Requests for additional information should be addressed to:

Nancy Birdsall
Chief, Policy and Research Division
Population, Health & Nutrition Department
The World Bank
1818 H Street, N.W.
Washington, D.C. 20433

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POLICY AND RESEARCH DIVISION

BIRDSALL, Nancy	Chief
AKIN, John	Economist
BARNUM, Howard	Economist
BULATAO, Rodolfo	Sociologist/Demographer (Consultant)
CHERNICHOVSKY, Dov	Economist (Consultant)
HILL, Althea	Demographer
PAQUEO, Vicente	Economist
ZACHARIAH, Kandiah	Senior Demographer
CHESTER, Lauren	Research Assistant
PATEL, Sulekha	Research Assistant
PREVOO, Dirk	Research Assistant
VU, My	Research Assistant

Support Staff

CATALDO, Catherine	
HORNSBY, Ella G.	
JOSE, Noni	
MENCIANO, Amelia	
SAILO, Heri	
TRUONG, Lac Khanh	Administrative Assistant

I. Overview

Members of the Policy and Research Division of the Population, Health and Nutrition Department of the World Bank carry out analytic work meant to provide a foundation for Bank policy advice to governments in the population, health and nutrition sectors. Staff do research and policy analyses and provide related technical support to the Bank's lending operations. Staff of the Division also participate in operational work, in a manner designed to help them identify and work on key policy and research issues in the field, as well as test and disseminate new approaches. The current program, described below, includes work on such issues as the role of the private sector in family planning, adolescent fertility in Africa, financing of health systems, pharmaceuticals policy, smoking and health in developing countries, patterns of demand for maternal health care, and the role of nutrition interventions in primary health care.

II. History

The Population, Health and Nutrition Department of the World Bank was founded in 1980. In the first several years of its existence the primary concern of policy staff was to identify key issues in the health and nutrition sectors and orient the Department's multi-disciplinary staff (previously the Population Projects Department) to the health field, a new area of Bank operations. This phase was dominated by the production of operational guidelines for sector and project work in health and nutrition, drawing upon Bank experience and practice in other sectors. The work program was geared to incorporation of epidemiological techniques into conventional project appraisal methodology, and analysis of health financing issues. Both field and in-house operational support featured prominently; research comprised a negligible proportion of activity.

In the last few years, there has been an increase in research and expansion of policy work to cover population as well as health and nutrition issues. The Bank's demographic data work has been shifted into the Policy and Research Division of the Population, Health and Nutrition Department.

III. Recent Major Studies

1. Population Growth and Policies in Sub-Saharan Africa. Published in 1986, this report focuses on the causes and consequences of rapid population growth in Africa. The paper pursues three related themes: rapid population growth as a constraint to improving living standards in Africa; the potential for increasing use of family planning, given changing attitudes toward use of family planning in Africa at both the political level and among potential users; and African authorities' growing recognition of the need to cooperate with non-government actors in the implementation of effective population policy. Noting the high priority

accorded by the World Bank to population assistance, the report encourages the development of new sectoral programs and continued external financial support.

2. Cost-effectiveness Research. A series of studies of the cost-effectiveness of various programs to improve health has been completed. Among the findings are that low-cost community health "outreach" workers have only a limited effect on health indicators, and that mobile health units are no more cost-effective than stationary health posts, except when used for providing highly specialized services. A study of potential avenues for reduction of maternal deaths concludes that extension of family planning services would be among the most cost-effective interventions.

3. Health Financing Policy Paper. "Financing Health Services: An Agenda for Reform" (1987) delineates Bank policy on health finance issues in developing countries. The paper describes health systems in developing countries in terms of three problems: insufficient spending on cost-effective health activities, inefficient government health programs and inequitable distribution of the benefits from health services. Suggested policies to help alleviate the problems are:

1. Charging users of public facilities;
2. Providing insurance or other risk coverage;
3. Strengthening nongovernment health care, and
4. Decentralizing government health services.

The paper is meant to provide guidelines to assist countries in designing new approaches to health finance.

Other recent studies are listed in Annex A.

IV. Description of Activities by Objective

Activities of the Policy and Research Division staff and of other staff working on policy issues in the Population, Health and Nutrition Department are organized under six major objectives:

A. Improve quality and effectiveness of fertility reduction programs

The overall objective of the research work in this area is to extend the scope of World Bank lending for population and to improve the design and performance of family planning projects. Past research in this area has had a strong demand-side focus -- on examination of socioeconomic characteristics of those who want and use fertility control. Much of our new research will focus on supply-side issues -- the effects of availability and quality of fertility reduction programs and their potential for generating their own demands. Planned work is in four areas:

1. Incentives for small family size. An issues paper reviewing existing literature and providing an overall conceptual approach will be prepared and discussed extensively in the PHN Department. Exploratory work

in specific countries (including Indonesia and Bangladesh) is being undertaken. Data will be sought allowing analysis of the effectiveness of incentives programs, with a focus on effectiveness relative to other potential uses of resources available for family planning programs. The work on incentives will provide input for a major policy paper on new initiatives in fertility control programs. (Responsible: Nancy Birdsall, Kenneth Chomitz, consultant).

2. New approaches to contraceptive services: public and private programs. A book on contraceptive choice will include analysis of factors and costs in contraceptive choice, promotion and delivery. Research and other efforts include analysis of the cost-effectiveness of government family planning programs in Indonesia and nongovernment programs in Colombia; analysis of the effect of contraceptive marketing on patterns of purchase of contraceptives across social class; the testing and documentation of the use of a reproductive risk checklist in promoting contraceptive use; a review of the experience of major nongovernment organizations and other nonpublic groups in family planning programs. (Responsible: Rudolfo Bulatao (consultant), John Akin, Dov Chernichovsky (consultant)).

3. Adolescent fertility. A recently completed commissioned review of research on adolescent fertility in Africa has indicated the need for information on the scope of the problem and its causes and consequences in individual countries. This research effort will design, conduct and analyze the findings of a survey in at least one southern African country, probably in conjunction with a Bank sponsored project. To provide comparative depth for the findings the work will be coordinated with related efforts by Columbia University, which may sponsor a similar survey in West Africa. (Responsible: Rudolfo Bulatao, consultant).

4. Population lending review. To meet the Bank's commitment to expanding lending for population, Bank staff need to have a clear idea of the effectiveness of past and current approaches and strategies to population lending and ways in which project design and implementation might be refined to improve the quality of programs to reduce fertility. To this end, PHN staff and consultants are carrying out an examination of the historical experience of population activities and projects undertaken during the past ten years. (Responsible: Fred Sai, George Simmons (consultant), Rushikesh Maru (consultant), Lauren Chester.)

These studies will provide the basis for a policy paper to be completed in 1989, tentatively titled "New Initiatives in Fertility Reduction". This policy paper will discuss and clarify issues surrounding what might be considered a second generation of population programs in developing countries.

B. Improve financing and efficiency of national health systems

The overall objectives of the research effort in this area are to assist the developing countries in the development of policies for improving

health financing systems and in attaining more efficient and equitable patterns of resource use within the overall health sector.

Financing

The 1987 policy paper on health financing clarifies Bank views on general directions for financial policy reform in the health sector in most countries -- toward increased cost recovery, more use of nongovernment sector initiatives, and more reliance on risk-sharing schemes. However, as an increasing number of countries initiate financing reforms, often in conjunction with World Bank lending operations, continuing work will be needed to evaluate the equity and efficiency effects of reforms, as well as their revenue effects, and to provide guidance on the institutional arrangements that support and reinforce reforms. New studies will include (1) a review of cost recovery systems (covering such issues as collection costs, effects on the poor, and political problems) and (2) new work on risk-sharing, including alternative institutional mechanisms (such as health maintenance organizations) in the public and private sector. The policy work is designed to complement sector work planned in operational divisions of PHN, e.g. on health insurance in Latin America and Asia, and on the progress of financing reforms in Africa.

These studies, along with the policy paper, will provide the basis for written guidelines on health financing reforms in developing countries directed to a technical audience, including Bank project officers, and materials for training seminars for technical staff of health and planning ministries. A computer planning model for recurrent costs will be produced for use by the operations staff. Guidelines for cost recovery, risk-sharing implementation, and improving the performance of the private sector will be produced. (Responsible staff: John Akin, Vicente Paqueo, Howard Barnum.)

Efficiency

Financing reforms can play a role in improving resource allocation and thus efficiency in national health systems, especially in the long run. But the issue of allocation of resources among and within health programs must also be dealt with directly, and can only be resolved through better understanding of the cost-effectiveness of alternative allocations.

1. Cost-effectiveness research: synthesis and dissemination. There is a growing literature on cost-effectiveness of various health interventions, most in terms of individual disease-oriented interventions, and less on delivery systems affecting multiple diseases. These studies have been important in improving resource allocation for individual tasks but have not yet been unified to develop broader health policy. Constraints to unification include the lack of analytical procedures to aggregate health impacts from disease interventions and lack of a clear statement of health sector objectives giving planning weights, reflecting the social consensus, to the multiple sector outcomes (diverse morbidity, mortality and disability effects over different population groups). A paper is being prepared which will synthesize four or five World Bank commissioned studies, plus other existing literature on cost-effectiveness of different interventions and

alternative modes of delivery health care in different environments. The paper will develop guidelines for future World Bank activity in carrying out cost-effectiveness analyses in the health sector and in making use of the work of others. Analytical tools and procedures to facilitate the use of economic analysis in the design of health projects and health sector advice will be developed. (Responsible: Howard Barnum.)

2. Internal efficiency in selected subsectors. A major concern is obviously redirection of public resources away from expensive, largely curative care to the kinds of public health services which are true public goods, enjoyed by all members of society. This will become an increasingly pressing issue as the incidence of chronic "developed country" diseases rises in developing countries, and political and social pressures increase for public subsidies to high-cost hospital care. A paper will be prepared defining the chronic disease issue, based in part on sector work on China, whose problems in this area probably foreshadow future problems in other developing countries. In addition, new work on efficiency problems in three subsectors is going on: hospitals (where considerable savings need to be sought), pharmaceuticals, and endemic disease control.

Each of these subsectors takes up a substantial portion of overall health resources, and each has a relatively distinct institutional set-up. Pharmaceuticals constitute, after salaries, the largest single category in recurrent health budgets, as well as the largest single category of private health spending in developing countries. More than half of PHN projects in the last three years have included a pharmaceutical component. Yet, there are still outstanding issues on the policy side, and little systematic information on how to reduce serious inefficiencies in the procurement, storage, distribution and utilization of pharmaceuticals. Hospitals take up to 80% of health sector recurrent resources, even in countries normally committed to a focus on preventive care and outreach to rural populations. Research and guidelines are needed to improve the design of project components intended to assist borrowers reduce hospital costs and improve hospital governance as a means to achieve rational use of resources. Endemic disease control looms as a growing use of health resources, especially in Africa, where environmentally-related and vector-transmitted diseases like malaria are major health problems. PHN has several projects involving control of these diseases and the Bank is a major donor of the Tropical Disease Research Program. Work in this area is needed to improve the sustainability and efficiency of control, in view of numerous failures in the past to maintain initial gains.

In these areas, through coordination with WHO and other health groups, PHNPR is providing critical complementary work, generally emphasizing economic questions. (Responsible: Vicente Paqueo, Howard Barnum, Anthony Measham).

3. Maternal and child health care: costs and utilization patterns. Use of prenatal care delivery services and postnatal maternal and child services will be studied using survey data from the Philippines. All pregnant women in 17 localities (both urban and rural) have been identified and interviewed during pregnancy and visited immediately after birth for

another interview and anthropometric evaluations of both mother and child. After birth the interviews are continued every two months until the child reaches age 2. The data will be analyzed to identify the factors affecting prenatal health care, delivery and postnatal care choices and to determine whether these choices affect birth outcomes and maternal and child health during the period after birth. Useful knowledge for designing and locating prenatal, delivery and well-child services in poor areas should result from this research. (Responsible: John Akin).

4. Health care utilization and cost recovery in West Africa.

Proposed research in the Gambia will complement an IDA-financed population, health, and nutrition project. The research has two related objectives: (1) analysis of the effects of public and private health and family planning services on health and fertility outcomes; and (2) analysis of the price elasticity of demand for these services. The results of these analyses will allow (a) evaluation of the effectiveness of the government's village-based primary health care system and recommendations for improved design and targetting of the health and family planning system; and (b) recommendations on the extent to which there is scope for increasing fees to help finance the system without reducing utilization by the poor. The research will also explore two methodological issues: (i) the reliability of survey responses to retrospective questions on fertility, mortality, and morbidity in West Africa (via comparison with already-collected prospective demographic surveillance data with retrospective survey responses), and (ii) the reliability of questions on willingness to pay for public services (via comparison of survey responses to such questions with expenditure data). Analyses will be based primarily on data to be collected from a representative sample of individuals, compounds, and communities in the Gambia. Work in other West African countries will be reviewed and consolidated, with a view to drawing out overall policy implications. (Responsible: Nancy Birdsall, Julie DaVanzo (consultant)).

C. Strengthen health and population capability in Africa

The overall objective of the research is to strengthen the institutions and mechanisms, including in the nongovernment sector, on which African governments must rely to develop and implement health and population programs.

1. Health finance and management in Africa. Major health financing reforms have begun to be discussed and implemented in Africa. The emphasis is on (a) increased cost recovery and (b) decentralization of planning, budgeting, personnel, and other administrative functions to lower levels of the health system, including to hospitals, so as to improve accountability and thus efficiency. A major policy paper focusing on Africa will increase the credibility of the ongoing efforts of World Bank project staff to encourage health sector reforms, and provide detailed background specific to the African situation -- where resources are more constrained than elsewhere, and institutional development (and rigidities) less advanced. The paper will also provide useful follow-up to PHN's Africa population report of 1986, which recommended substantial increases in the scale of family planning programs, in part through increased use of nongovernment

provision of services, and in part through greater attention in government programs to novel decentralized approaches to service delivery. The paper will be based on a large body of PHN health sector evaluation work dealing with finance and management in at least 15 African countries, additional work being done as part of the work program on health financing (e.g. on pharmaceuticals and on the hospital subsector), much of which is focusing on Africa, and work on improving the responsiveness of services to clients at the periphery. In addition, one or two detailed country case studies of reform implementation will be carried out. (Responsible: Nancy Birdsall.)

2. Demographic data development for policy. A second activity is designed to improve population data in Africa. As emphasized in the recently completed Sub-Saharan Africa population report, population policy development has been poor in part because of poor demographic information and failure to exploit what data exists for policy purposes. To address this problem, we are working with other donors to encourage a new round of censuses in Africa. In addition, we are collaborating within the Bank with the Living Standards Unit and outside the Bank with the USAID-funded Demographic and Health Surveys project to improve countries' capability to collect and analyze household demographic and health information. Finally, a special review of PHN project experience in monitoring and evaluation will be conducted, including critical review of the value of new household surveys for project evaluation. The product of the effort should be guidelines for using and evaluating existing data. (Responsible: K. C. Zachariah, Althea Hill, Sulekha Patel.)

D. Improve nutrition policy and lending

The overall aims of the Nutrition work program are to improve nutrition policies, programs and institutions in developing countries. In order to achieve these aims, the direct and indirect economic and social effects and costs of alternative nutrition interventions must be understood.

1. Household decisions and food security. This work aims to (a) identify the relationship between household food consumption, health and malnutrition; (b) establish the links between this behavior and policy programs; and (c) recommend ways to integrate pertinent knowledge in policy and planning. A paper will (a) review and synthesize available models and evidence concerning socioeconomic and health correlates of malnutrition at the household level; (b) integrate ongoing research on the interactions between food consumption, health, and nutritional status (especially in Indonesia, Burkina Faso, and Ivory Coast), identifying the potential effects of particular policies (nutrition programs, macroeconomic policies) on household behavior, given relationships established through research in household behavior (e.g., income and price elasticities); (c) recommend avenues for development of operational models and tools integrating knowledge on household behavior into nutrition policy, and identify gaps in knowledge and potential new research. (Responsible: Dov Chernichovsky, consultant).

2. Nutrition in World Bank population, health and nutrition projects. The hypothesis that many health interventions will not have major positive

impacts unless nutritional status of the population to be served is also improved is being explored. Of the many linkages between nutrition actions and health/population objectives, five stand out as particularly related to PHN project priorities. One is increased attention to protection and promotion of breastfeeding for its contraceptive effect. A second is that of micronutrient supplementation programs to the delivery of other health services (e.g., immunization). The third is that in some cultures of low birthweight (and thus higher risk of mortality) to conscious restriction of intake by pregnant women. For these three topics, recent research and its relevance for PHN will be reviewed, operational implications delineated and an overview paper prepared containing guidelines for project staff. Relating to the fourth and fifth possible linkages there will also be work. The success of growth monitoring programs, which are a useful entry point for contact with mothers in health and family planning, has been limited by inadequate growth charts. The testing of a new card will be encouraged, and PHN will participate in the analysis of field testing. Finally, many clues on the importance and delivery of nutrition in health/population projects may emerge in data from the Tamil Nadu project, currently being evaluated. (Responsible: Alan Berg.)

E. Poverty alleviation

The activity in this subject area has a long-term objective of enhancing the Population, Health and Nutrition Department's contribution to poverty alleviation through examination of and a focus on issues and obstacles in targetting family planning, health and nutrition services to the poor in developing countries. Although much of PHN work emphasizes poverty alleviation objectives, one project falls directly in this topic area.

Service delivery at the periphery. Increasing the responsibilities of PHN projects to clients, especially those with the least influence and fewest resources, could be promoted if borrowers and PHN achieved better understanding of attitudes of project beneficiaries, the dynamics of decisions in poor households, and the dynamics of key dimensions of service providers. With such knowledge, project approaches could be adopted that improve delivery systems at the periphery. A task entitled "Services at the Periphery" consists of reviews of experience within and outside the World Bank with service delivery to poorly-served groups, and a synthesis of findings from a variety of recent and ongoing Bank economic analyses (including studies in Peru and Ivory Coast) on access to and use of services by the poor. (Responsible: Rudolfo Bulatao, Richard Heaver).

F. Improve demographic family planning and health statistics

The importance of the World Bank's maintaining a high-quality effort in demographic data development as a basis for policy analysis of population (as well as for the Bank's country economic and sector work, and for the World Development Indicators) was emphasized in a 1985 external review of PHNPR's demographic work. This objective pulls together a number of activities associated with maintaining such a data base.

1. Demographic work. Assistance to operations staff and country economic staff is provided as required, covering items like evaluation of demographic estimates, preparation of projections, methodological advice, and identification of appropriate consultants and supervision of their work. A demographic data base for all countries is maintained to facilitate this work. Annually, projections by country are run using standard demographic techniques, for inclusion in the World Development Indicators. A separate report on these projections is prepared, incorporating projections of school age population. Two new features of this process will be closer collaboration with the UN Population Division to minimize discrepancies with their population estimates and projections and a review of approaches to projecting fertility and mortality as part of the effort to keep the methodology up to date. (Responsible: K. C. Zachariah.)

2. Health statistics. Presentation of health data/indicators in PHN sector reports and projects varies widely. Standardization would allow meaningful comparisons of changes in health indicators over time within countries as well as inter-country comparisons. Health indicators are essential to guide the formulation of and ensure the appropriateness of health policy. The WHO indicators in particular are relevant to broad departmental objectives related to maternal and child health. The establishment of baseline health indicators is also essential to analysis of the long-run relation between health impact and health expenditures. Under this activity health data will be collected and analyzed to be used in health policy formulation and in the monitoring of World Bank health projects and the evaluation of health sector status in specific countries. (Responsible: Bernhard Liese, My Vu.)

3. New health data. We are concerned with the need for better data allowing evaluation of the impact of health programs. We have, therefore, had preliminary discussions with WHO, looking toward formation of an international consortium to develop and seek funding for a more ambitious effort in this area than we can undertake ourselves. (Responsible: Nancy Birdsall, Anthony Measham.)

ANNEX A

Recent Population, Health and Nutrition Papers and Reports

STAFF WORKING PAPERS AND PHN TECHNICAL NOTES¹

- Akin, John S. 1986. Fees for Health Services and the Concern for Equity for the Poor, PHN Technical Note 86-10.
- Akin, John S., and J. Brad Schwartz. 1986. Demand Analysis with Price Information Obtained Directly from Respondents, PHN Technical Note 86-22.
- Barnum, Howard N. 1986. Cost Savings from Alternative Treatments for Tuberculosis, PHN Technical Note 86-11.
- Barnum, Howard N. 1986. Evaluating Healthy Days of Life Gained from Health Projects, PHN Technical Note 86-27.
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- Berg, Alan and Susan Brems. 1986. Micronutrient Deficiencies: Present Knowledge on Effects and Control, PHN Technical Note 86-32.
- Berg, Alan, et al. 1986. Guidelines for Work in Nutrition, PHN Technical Note 86-12.
- Birdsall, Nancy. 1986. A Population Perspective on Agricultural Development, PHN Technical Note 86-8.
- _____. 1986. Cost Recovery in Health and Education: Bank Policy and Operations, PHN Technical Note 86-24.
- _____. 1987. Demand for Primary Schooling in Rural Mali: Should User Fees Be Increased?, PHN Technical Note 87-4.
- _____. 1987. Strategies for Analyzing Effects of User Charges in the Social Sectors, PHN Technical Note 87-1.
- _____. (ed.). 1985. The Effects of Family Planning Programs on Fertility in the Developing World, Staff Working Paper 667.

¹ Includes papers by staff of the Policy and Research Division and by Departmental Advisors, and papers by former staff, written while working in the Policy and Research Division.

- _____, and Lauren Chester. 1986. Does Better Contraception Improve Women's Status?, PHN Technical Note 86-13.
- _____, and Kenneth Chomitz. 1986. Incentives for Small Family Size: Concepts and Issues, Processed.
- _____, and Punam Chuhan. 1987. Willingness to Pay for Health and Water in Rural Mali: Do WTP Questions Work?, PHN Technical Note 87-2.
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- Bulatao, Rodolfo, and E. Bulatao. 1986. Effects of In-School Population Education, PHN Technical Note 86-18.
- _____, and Ann Elwan. 1985. Fertility and Mortality Transition: Patterns, Projections and Interdependence, Staff Working Paper 681.
- Chernichovsky, Dov. 1984. Poverty in Indonesia: A Profile, Staff Working Paper 617.
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- Chernichovsky, Dov and Oey Meesook. 1984. Patterns of Food Consumption and Nutrition in Indonesia: An Analysis of National Socioeconomic Survey, 1978, Staff Working Paper 670.
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- _____. 1986. Contraceptive Social Marketing. PHN Technical Note 86-6.
- _____. 1985. Monitoring and Evaluation Components in Completed Population Projects, PHN Technical Note 85-2.

- _____, and David de Ferranti. 1984. Population, Health and Nutrition Sectors: Key Issues and Investment Priorities, PHN Technical Note GEN 26.
- Cochrane, Susan. 1985. Development Consequences of Rapid Population Growth: A Review from the Perspective of Sub-Saharan Africa, PHN Technical Note 85-8.
- _____, and Samir Farid. 1985. Fertility in Sub-Saharan Africa: Levels and Their Explanation, PHN Technical Note 85-13.
- de Ferranti, David. 1984. Paying for Health Services in Developing Countries: An Overview, Staff Working Paper 721.
- _____. 1984. Strategies for Paying for Health Services, PHN Technical Note GEN 25.
- Hall, Karen Lashman. 1986. Pharmaceuticals in the Third World: An Overview, PHN Technical Note 86-31.
- Herz, Barbara. 1984. Official Development Assistance for Population: A Review, Staff Working Paper 688.
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- Ho, Teresa J. 1985. Economic Issues in Assessing Nutrition Projects: Costs, Affordability and Cost-Effectiveness, PHN Technical Note 85-14.
- _____. 1985. Managing Health and Family Planning Delivery Through A Management Information System, PHN Technical Note 85-3.
- _____. 1985. Monitoring and Evaluation: Policy and Practice in Other Bank Sectors, PHN Technical Note 85-1.
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- Liese, Bernhard H. 1986. Organization and Management Issues in the Control of Parasitic Diseases, PHN Technical Note 86-30.
- Measham, Anthony. 1986. Review of PHN Sector Work and Lending in Health, 1980-85, PHN Technical Note 86-14.
- Montgomery, Mark and Ed Brown. 1986. Migration and Urbanization in Sub-Saharan Africa, PHN Technical Note 86-21.

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Zachariah, K.C. 1984. The Anomaly of Fertility Decline in India's Kerala State, A Field Investigation, Staff Working Paper 700.

_____, and Sulekha Patel. 1985. Determinants of Fertility Decline in India: An Analysis, Staff Working Paper 699.

OTHER STAFF OUTPUTS²

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_____. Forthcoming. "Determinants of Infant Feeding: A Household Production Model," Economic Development and Cultural Change.

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Berg, Alan. 1985. "Improving Nutrition: the Bank's Experience," Finance and Development, Vol. 22:2.

² Includes papers by staff of the Policy and Research Division and by Departmental Advisors, and papers by former staff, written while working in the Policy and Research Division.

- Berg, Alan. 1986. "Integrating Nutrition in Food Policy Analysis," in Food Policy - Frameworks for Analysis and Action. Bloomington, Ind.: Indiana University Press.
- _____, and James Austin. 1984. "Nutrition Policy and Programmes - A Decade of Redirection," Food Policy.
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