

AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D. C. 20523
BIBLIOGRAPHIC INPUT SHEET

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Batch 72

1. SUBJECT
CLASSI-
FICATION

A. PRIMARY

Bibliographies

Z-SE00-0000-0000

B. SECONDARY

Social sciences--Sociology

2. TITLE AND SUBTITLE

Social indicators, bibliography

3. AUTHOR(S)

Beal, G.M.; Brooks, R.M.; Wilcox, L.D.; Klonglan, G.E.

4. DOCUMENT DATE

1971

5. NUMBER OF PAGES

57p.

6. ARC NUMBER

ARC

7. REFERENCE ORGANIZATION NAME AND ADDRESS

Iowa State

8. SUPPLEMENTARY NOTES (Sponsoring Organization, Publishers, Availability)

(In Dept. of Sociology. Rpt. no. 92)

9. ABSTRACT

10. CONTROL NUMBER

PN-AAE-748

11. PRICE OF DOCUMENT

12. DESCRIPTORS

Indicators
Sociology

13. PROJECT NUMBER

14. CONTRACT NUMBER

CSD-3642 GTS

15. TYPE OF DOCUMENT

SOCIAL INDICATORS: Bibliography I

by

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Preliminary Report of Project No. 1837 of the Iowa State
University Agricultural and Home Economics Experiment Station
in cooperation with the Cooperative State Research Service,
U.S. Department of Agriculture

Sociological Studies in Social Indicators
Project Co-Directors: George M. Beal and Gerald E. Klonglan
Project Coordinators: Ralph M. Brooks and Leslie D. Wilcox

With the assistance of:
K. William Wasson and Harold J. O'Connell
Graduate Research Assistants

Department of Sociology Report No. 92
Department of Sociology and Anthropology
Iowa State University
Ames, Iowa
January, 1971

PREFACE

Introduction

A bibliography generally is not accompanied by some rationalization as to how it came to be. This one is an exception. The rationalization stems from the nature of the subject matter and its recent impact on societal thinking. Recent concerns for and the effects on man in such areas as; environmental pollution, congestion of the large cities, evaluation of social programs, progress in health, education and welfare and numerous other "quality of life" areas have generated renewed interest in the prospects of developing social indicators to monitor changes in society.

This interest, within the past three years, interestingly enough, has not localized itself in any particular sector of society. Indeed, interest and concern has been and is still being expressed not only in the academic and private marketplace but also in federal, state, and local governmental planning units. Recently a new bill was introduced in the U.S. Congress by Senators Mondale and Harris which if passed would provide for a Council of Social Advisers whose charge would be to monitor the social progress of the United States in much the same manner that the current Council of Economic Advisers monitor our economic progress. The feasibility of a Council of Social Advisers has been debated before sub-committee hearings by representatives from both government and nongovernmental agencies.

Policy makers in the states and cities are confronted with a need for better data as to where they are on the "quality of living scale." Many have initiated individual efforts to make assessments in areas of; pollution, transportation, education, housing, health, community participation, racial equality and a whole series of other "indicators" attempting to better monitor aspects of social life.

However, when relatively new areas of emphasis emerge in a discipline or for that matter across disciplines, it is often difficult for researchers to acquire a listing of the most recent materials. In some instances, memos, drafts and papers may be used internally and not appear as a published article. Those that are published can appear in any number of journals and hence it is difficult for the researcher to maintain awareness of new areas. Lag time between journal article submission and publication of a year or more is not uncommon. Finally, interdisciplinary interaction is difficult to maintain when new areas of research interest emerge.

This bibliography is an attempt to minimize these difficulties by presenting an extensive listing of recent materials focusing on the new area of social indicators. It is the culmination of several months of library research, attendance at professional meetings, extensive correspondence with interested persons and personal interdisciplinary discussions.

The purpose of the preface is to briefly discuss the following:

1. To review some selected general writings which have served as catalysts in the social indicator movement in recent years.
2. To discuss the Iowa State University social indicator project by emphasizing the rationale, source of funding and objectives for the next four years.
3. A brief sketch of the social indicators project staff at Iowa State University.
4. To discuss our procedure of literature review and sources of bibliographies.
5. To indicate some professional associations which are emphasizing interest in social indicator activities.
6. Procedures for reading the bibliography.

Social indicator movement: general writings

It is not the intent of this publication to make a judgment regarding the appropriateness of each source listed in the bibliography for the social indicator movement. In our judgment, however, there are several which the novice in the area of social indicators should read as he approaches this area. At the same time one should begin to be familiar with individuals currently working on various aspects of social indicators. Many have served as points of departure for generating further articles and books on the movement.

As far back as 1966, the President of the United States directed the Secretary of Health, Education and Welfare to begin preliminary steps to supplement the Economic Report of the President. These efforts culminated in the publication, Toward a Social Report under the general direction of Daniel Bell and Alice Rivlin. It covers such areas as; health and illness, social mobility, our physical environment, income and poverty, public order, safety, learning, science and art, and participation and alienation. This report has also been the subject of much debate as demonstrated in the Full Opportunity Act - hearings before the special sub-committee on evaluation and planning of social programs, 1970.

Prior to the publication of Toward a Social Report, Raymond Bauer's book on Social Indicators was published. This edited book contains several position papers by Bertram Gross, Raymond Bauer, Albert Biderman, and Robert Rosenthal and Robert Weiss. Another publication serving as a strong input for the social indicator movement was Bertram Gross' book on The State of the Nation. Since 1966 he has produced several articles on various aspects of social indicators as evidenced in the bibliography.

The 1967 issue of Daedalus was published with the major theme of "Toward the Year 2000." In the same year Bertram Gross edited two special volumes of The Annals of the American Academy of Social Science. The general theme was "Social Goals and Indicators for American Society."

Another pair of writings resulted from the joint efforts of committees appointed by the National Academy of Sciences and the Social Science Research Council. Neil Smelser and James Davis edited Sociology and The Behavioral and Social Sciences: Outlook and Needs was prepared by the Behavioral and Social Sciences Survey Committee of the National Academy of Sciences and the Social Science Research Council. A whole series of recommendations are presented of which we only mention two:

1. The development of a system of social indicators with congressional support, and
2. the suggestion for an Annual Social Report to the Nation.

Two of the most often cited individuals in the area of social indicators are Eleanor B. Sheldon and Wilbert E. Moore. Together they edited a book entitled Indicators of Social Change published by Russell Sage. The initial article is "Monitoring Social Change in American Society," by the editors. The remainder of the book is divided into four sections (demographic base, structural features, distributive features and aggregative features) with articles by Conrad Taeuber, A.W. Sametz, Daniel Bell, William J. Goode, N.J. Demerath, Milton Moss, Beverly and Otis D. Duncan, Ida Merriam and others. Otis D. Duncan is also the author of a recent Russell Sage Publication entitled; Toward Social Reporting: Next Steps. He presents eight procedural suggestions for future work. These include various aspects of replication studies in selected fields, by various governmental agencies and consideration for 1 in 1,000 samples for census years prior to 1960.

Several others could be mentioned as initial studies and articles in the early emphasis on social indicators. We merely present a select few which should serve as stimulators for those interested in this new area. The bibliography contains several sources from private foundations. Among these we could mention the recent work of Martin Jones and Michael Flax of the Urban Institute. Their paper "Quality of Life in Metropolitan Washington, D.C." presents fourteen "quality areas" and the "indicators" used for each of those areas. It then proceeds to compare Washington, D.C. with seventeen other large metropolitan areas in relation to the "quality of life" issue. Another interesting piece of work comes from the Midwest Research Institute entitled, "Quality of Life in the United States - an Excursion into the New Frontier of Socio-Economic Indicators." It is authored by John O. Wilson and compares all fifty states on nine broad areas for which social indicators were developed. The individual state rankings are for; individual status, racial equality, state and local government, education, economic growth quality, technological change, agriculture, living condition, and health and welfare. Again, these are but two of many and we refer the reader to the bibliography for additional sources of interest.

Previously we indicated that interest is being expressed at federal, state and local levels in the social indicator movement. At the federal level we could mention the forthcoming publication from the Office of Statistical Policy entitled; "The Development of a Social Statistics Publication," which will attempt to present data on a regular basis for the following areas of social concern; health, public safety, education, employment, income, housing, travel and transportation, physical environment and recreation. An example of efforts at the state level is presently being initiated by the state of Michigan. The title of their forthcoming

publication will be; Social Reporting in Michigan: Problems and Issues to be compiled by the Center for Urban Studies at Wayne State University. The center recommended that the Governor of Michigan issue an Annual Social Goals and Indicator Report beginning in September, 1971. This report is to be supplemented by quarterly reports on environmental quality, lawful behavior, and health and education. Social Reporting in Michigan will attempt to establish one of the first "social barometers" at the state level. For an example of the local level we suggest the previously discussed document by the Urban Institute on "Quality of Life in Metropolitan Washington, D.C." These are only the beginning of much needed research at all levels of society concerned with quality of life.

Iowa State University Social Indicator Project

The social indicator project in the Department of Sociology at Iowa State University resulted from an interest in basically three societal problems. First, there appears to be a great deal of interest with federal and local programs focusing on the importance of human resource development. Yet, one major problem is lack of general agreement as to what constitutes human resource development, community development or social and economic development. Presently, conceptualizations of program objectives are often stated in broad intangible terms such as maximizing individual satisfactions, developing human resources to their ultimate potential and improving services and environment optimizing the resources available. Hence, there still appears to be much work that needs to be done in attempting to conceptualize at a general and then at a lower level of abstraction the variables that have potential for measurement which reflect the range of possible "social indicators" that specify measurable concepts inherent in human resource develop-

ment, community development and social and economic development. Related to this first objective would be the interrelatedness of the conceptualized variables.

Second, assuming existing concepts of development, new concepts that could be developed and their interrelationships, how does one develop reliable and valid measures and collect data to determine the degree to which phenomena are occurring that would be accepted as a valid measure of the elements implicit in the general concepts of development.

The third problem deals with the increasing concern of the ecological, environmental and developmental distribution of our rapidly increasing population-100 million more people by the year 2000. There are those who basically say, there is no alternative to the increasing concentration of population in the already concentrated metropolitan centers. There are others who believe there is a high priority need to develop policy and programs that will encourage future population increases to settle in the nonmetropolitan areas including new cities and existing growth centers, smaller towns and the rural areas. Also, there are individuals who see the possibility of some redistribution of our existing population from large urban areas to the nonmetropolitan areas. Either of these latter two points of view assumes that there are certain individual and societal goals that will be best served by their alternative. These goals are usually not stated, or at best they are implicit, which points out the importance of the first two problems posed in reference to conceptualization and measurement. If social indicator concepts can be conceptualized and adequate measures developed for them, it would appear to be logical to test them out on some range of different ecological patterns, e.g., varying from rural farm to metropolitan areas. This should provide insights into what social indicators, and their distribution, are optimized under varying ecological distributions.

Therefore, our project, "Measurement of Social Indicators in Human Resource and Community Development," will attempt to achieve the following;

1. The conceptualization at a lower level of abstraction (amenable to measurement) of the subconcepts that appear to be logical derivations from the general level concepts of human resource development, community development and social and economic development.
2. The development of measures and data collection procedures for the concepts derived.
3. The application of these measures on a limited stratified sample of territorialities varying from farm to metropolitan areas.

Time period and plan of work

The present project is considered to be an exploratory study. Further, this study does not propose to be normative in its approach, i.e., it will not make value judgments regarding what is "good" or "bad." Rather it will attempt to specify a range of social indicators and determine their quantitative and qualitative differences under different ecological situations. To complete the above objectives, we have outlined a plan of work which will cover a four year period from 1970-1974.

This bibliography summarizes a major effort of the first year of the four year period by reviewing the social indicator literature. In conducting this literature search we sought the following;

1. Available recent writing regarding social indicators;
2. Stated and inferred objectives of policy papers and programs which nominally have human resource development, community development, and social and economic development as their goals;
3. Theoretical, philosophical and "policy statements" related to the goals of American society and its subunits as well as inferences

of the reverse, i.e., the writing that deal with what is "wrong" with our society.

Although the bibliography emphasizes objective one, nevertheless, sources relevant to objectives two and three are also included. These latter two will be discussed more fully in forthcoming position papers from the Social Indicator Staff.

A second goal for the first year is to codify this review of literature in some type of logically derived taxonomy, with needed level of conceptualization, that specify social indicators. Hopefully, a forthcoming annotated bibliography and accompanying classification scheme mentioned previously will meet this objective.

The second year will have two objectives. One is to improve and develop measures for selected concepts. The other is informal field testing and improving measures.

In the third year a limited field study will be conducted using a stratified Iowa sample on a farm to metropolitan area continuum collecting needed primary data. In addition, coding and preliminary analysis of data is scheduled for this period.

The fourth year will consist of completing the data analysis, reporting the findings and making suggestions for not only future conceptualization and measurement but also attempt to evaluate the pay-off on this approach and area of research for future resource allocation.

Source of funding and project staff

Funds for this current research project are derived from the Iowa State University Agricultural and Home Economics Experiment Stations in cooperation with The Cooperative State Research Service, United States Department of Agriculture.

At the present time the social indicator project staff investigating the measurement of social indicators of change and development includes a research team of six members. We present a brief resume of each in terms of professional training and areas of interest.

George M. Beal Professor and Chairman, Department of Sociology and Anthropology. Dr. Beal received his education at Iowa State University as follows: B.S., 1943; M.S., 1947; Ph.D., 1953. His professional experience has been with Iowa State as Research Associate and Instructor of Sociology, Assistant and Associate Professor of Sociology and Professor. Since 1969 he has been Chairman of the Department. Research specialty areas include: adoption-diffusion, communication, social system analysis, sociology of development and instigated social action in complex social systems. He has taught under-graduate and graduate courses in community action, sociology of development, cross-cultural transfer of knowledge, social action, and communication.

Gerald E. Klonglan Associate Professor, Department of Sociology and Anthropology. Dr. Klonglan received his education at Iowa State University and Michigan State University. He received his degrees at ISU: B.S., 1958; M.S., 1962; Ph.D., 1963. Since 1963 he has been employed by Iowa State University. Specialty areas include: sociological theory and methodology; communication and innovation; social organization, especially community organization and change including social power; interagency and interorganizational linkages; social action; development and decision making and complex organizations. Sociology courses taught are graduate level courses in: intermediate systematic theory; intermediate sociological inquiry and theory; advanced theoretical analysis; causal models in sociology; and interorganizational relations.

Leslie D. Wilcox Assistant Professor, Department of Sociology and Anthropology. Dr. Wilcox received his B.A. in 1958 at Seattle Pacific University, his M.S. in 1965 at Colorado State University and his Ph.D. in 1968 at Colorado State University. His professional experience includes 2 years as Social Caseworker at the Denver Department of Welfare, 1½ years as Research Assistant at Colorado State University and 3½ years as Instructor at Colorado State University. Specialty areas include: social change and social development; social theory and theory building; social organization and community. At Colorado State University he taught courses in: introductory sociology; marriage and the family; sociology of the family; social stratification; small groups; and the sociology of youth. Courses taught at Iowa State University include: sociological inquiry; rural society adjustment; contemporary theory, urban sociology and a graduate seminar in social change.

Ralph M. Brooks Research Associate, Department of Sociology and Anthropology. Mr. Brooks received both his B.S. in 1965 and M.S. in 1968 from Brigham Young University. Since 1968 he has been employed by Iowa State University as a research assistant, teaching assistant and research associate. Presently he is a Ph.D. candidate working on his dissertation and serving as Project Coordinator for the current social indicator project. His professional experience includes 2½ years living in Brazil, South America, as a religious representative and 1½ years as a residence counselor in a Job Corps Urban Center. Specialty areas include: social change and social development; theory construction; methodology; and complex organizations and interorganizational relations.

K. William Wasson Research assistant and Ph.D. student, Department of Sociology and Anthropology. Mr. Wasson received his education at the

University of Kansas and Kansas State University. He received his B.S. in 1956 and M.S. in sociology in 1971. His areas of interest include theory construction with emphasis on computer simulation models, and social action through planned change.

Harold J. O'Connell Research Assistant and M.S. student, Department of Sociology and Anthropology. Mr. O'Connell received his education at St. Dunstan's University, Charlottetown, Prince Edward Island, Canada, graduating with a B.Sc. in 1967. He has been employed for three years by the Prince Edward Island Government on a Comprehensive Social and Economic Development plan in the area of social development. His major interests include: social planning and social development; social action and social change; public policy development; and community organization.

Literature Review

Letters of correspondence

When a relatively new area of interest emerges in a discipline how does one go about obtaining the relevant material? The approach described below is certainly not exhaustive. Rather, it was an initial attempt to become knowledgeable as rapidly as possible with not only currently published materials but also with individuals working in the area that may not have yet published their work. There are probably many sources which we have not yet discovered or have had brought to our attention.

We began our search in the library as well as reviewing all issues of Current Contents: Behavioral, Social and Management Sciences. This is a weekly publication which reproduces the title page of social science journals published during that week. The current total of journals reviewed yearly by this publication numbers approximately 1600. We searched for articles which appeared to be of interest and relevant to the social indicator

movement. Next, we wrote to the various authors of books and articles mentioned in the section on "Social Indicator Movement: General Writings" in the preface of this publication. Each person received a copy of a letter which attempted to briefly discuss our project and elicit certain kinds of information from the recipient (see Figure 1).

In addition, letters were sent to government leaders promoting legislation in the area of social indicators. As demonstrated in the letter everyone was asked to suggest materials we should have knowledge of, additional individuals whom we might want to contact, conferences and seminars focusing on social indicators and a request for any future materials they might have available.

This procedure resulted in over one hundred letters being sent (which included the referrals) with approximately eighty respondents. With the exception of the H.E.W. Toward a Social Report, and some obvious writers (Bertram Gross, Raymond Bauer, Eleanor Sheldon, Daniel Bell, Otis D. Duncan, and Mancur Olson) very few other individuals were suggested by more than one respondent. Hence, it appears from our correspondence that although the social indicator movement may have several individuals writing and conducting research in the area, knowledge of whom is working on what aspect of social indicators is not diffused as well as some may think. For this reason we feel the bibliography will serve to reduce this problem by presenting varied sources which appear to be unfamiliar to many working in the area but which are relevant for the subject matter.

Additional sources of bibliographies

Several bibliographies were obtained in the process of library research and personal correspondence with individuals active in the social indicator

Figure 1. Initial Letter Requesting Social Indicator Information

October, 1970

Iowa State University has recently received a USDA research grant to conduct research focusing on the measurement of social indicators in human resource and community development. The need for conceptualization, operationalization and measurement of social indicators has been increasingly recognized by both social scientists and social planners in recent literature. The discussions and resulting publications that have appeared the past few years have made significant contributions, yet, there still appears much work that needs to be done in attempting to conceptualize and measure variables that reflect the range of possible "social indicators" that specify measurable concepts inherent in human resource and community development.

The present research is being undertaken as a high priority project by several members of the sociology staff. We are approaching this project candidly, recognizing the extreme difficulty of delineating social indicators capable of coping with the complex social conditions which characterize modern society, as well as, a realization of the ever present danger of falling into some form of normative utopianism. In an attempt to minimize the danger of the latter, we are assuming the responsibility to initiate the widest range of communication with others who have been involved in research related to this problem, as well as those who have been critical of these efforts. To open the doors for communication we are presently writing to all persons and agencies that we know have been involved in research or discussion of social indicators in the past, with the hope that considerable cross fertilization of ideas may be affected.

At present we are engaged in a systematic review of earlier, as well as, on-going efforts to measure social indicators. It is at this point that you may be able to render us greatly needed assistance. We would appreciate any assistance you may be able to render us in locating the following:

1. Bibliography, research reports, papers, monographs, memorandum (working or final) related to the general problem of social indicators.
2. The names of people you think we should interact with regarding social indicators and social development.
3. Information concerning conferences, seminars or workshops on social indicators scheduled for the coming year.
4. We would also appreciate being added to your mailing list to receive materials you may have for distributions at a future date.

Thank you for your cooperation. Any suggestions and assistance you may be able to render us will be deeply appreciated. In turn, we will be most happy to reciprocate these services to you should you desire.

Sincerely,

movement. Of those obtained, the following represent a general orientation and aided greatly in preparation of this publication.

1. The Annals of the American Academy of Political and Social Science
 - a. Social Goals and Indicators for American Society: I, Vol. 371 (May 1967).
 - b. Social Goals and Indicators for American Society: II, Vol. 373 (September 1967).
 - c. Carol Agocs, "Social Indicators: Selected Readings," Vol. 388 (March 1970).
2. Dr. Milton Coughenour, University of Kentucky, provided us with a seminar outline and bibliography on "Social Forecasting."
3. Dr. Gordon Cummings, Cornell University conducted a similar seminar and sent us a paper (prepared by a student) entitled, "Social Indicators and Accounting: Bibliography and Work in Progress."
4. Dr. Kenneth C. Land, Russell Sage Foundation made available a draft of a soon to be published article entitled, "Social Indicators."

Professional meetings

This recent interest in social indicators is further demonstrated by the number of professional associations that either have had or are planning sessions, roundtable discussions and symposiums on various aspects of social indicators. The papers presented at these various meetings emphasizing aspects of the social indicator movement are enumerated in the bibliography.

1. Rural Sociological Society, August 1970.
2. American Sociological Association, September 1970.
3. Seventh World Congress of Sociology, September 1970.
4. Operations Research Society of America, October 1970.

5. American Statistical Association and The American Economic Association, in joint sessions with the Allied Social Science Associations, December 1970.

For 1971 several societies have already specified interest in pursuing social indicators at their forthcoming meetings.

1. The Russell Sage Foundation and the British Social Science Research Council plan to jointly sponsor a conference in London, England, which will include a focus on social indicators.
2. The Rural Sociological Society is using the theme "Rural Sociology and Public Policy" for its August meeting.
3. The American Sociological Association is planning a session on "Social Indicators and Public Policy" and another session on "Social Forecasting and Public Policy" for the September meeting.

These are but a few of many professional associations interested in pursuing social indicators during their 1971 association meetings.

Reading the Bibliography

As mentioned previously, this bibliography is to serve as a preliminary attempt to pull together recent writings on social indicators. Therefore, no attempt is made in this publication for the organization of the bibliographic sources into a general taxonomy or framework.

Some of the sources contain an asterisk in the left hand margin of the citation. This refers to a paper or article which exists but we do not presently have a copy nor have we examined a copy of the source. The others have been verified as existing, available sources.

In addition, some of the sources contain the address of the author. Much of the material received resulted from personal correspondence. The addresses are included on some sources for those wishing to make personalized

contact with the authors for copies of publications or general correspondence which will further advance the interaction regarding the social indicator movement.

Request for Materials

One of the purposes of this preface is to bring together the diversified writings in the area of social indicators and make them available for those interested in learning about the area or continuing present social indicator research.

Another purpose is to make a general request to readers of this publication for papers related to conceptual, theoretical, methodological and applied problems of implementation of social indicators. Specifically, we would appreciate the following:

1. Any intradepartmental memos or working papers;
2. Drafts of papers which have been presented or are to be presented at meetings, conferences or professional meetings;
3. Articles which have been published but not included in the present bibliography, as well as, articles to be published;
4. Books not included in the bibliography but which have relevance to the social indicator movement;
5. Relevant Masters theses and Ph.D. dissertations;
6. Dates of upcoming conferences and seminars focusing on the area of social indicators; and
7. Names of other individuals presently interested in social indicator research you feel we ought to contact.

Our plans are for an annotated bibliography of key articles in the social indicator movement to be published in 1971. For this reason we would appreciate your perusing the bibliography with the intention of

correcting any improper citations and providing materials of which you may be knowledgeable but have escaped our preliminary search. We have included two perforated sheets addressed to our project staff for your use. One appears after the preface and before the bibliography. The other is located at the end of the bibliography in front of the perforated order cards.

We appreciate your help and extend our thanks in advance to those who might suggest additional sources and ideas.

G.M.B.
G.E.K.
L.D.W.
R.M.B.
K.W.W.
H.J.O.

George M. Beal
Social Indicator Staff
103 East Hall
Iowa State University
Ames, Iowa 50010

Dear George:

May I suggest the following materials which may be of interest to your social indicator project.

1. Intradepartmental memos and drafts of papers
 - a.
 - b.
2. Articles and books to be included in next annotated bibliography
 - a.
 - b.
3. Relevant Masters theses and Ph.D. dissertations
 - a.
 - b.
4. Professional meetings with topics related to social indicators
 - a.
 - b.
5. Conferences and seminars
 - a.
 - b.
6. Additional comments

Sincerely,

SOCIAL INDICATORS:

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* The asterisk indicates the source is unverified in that the authors have not yet obtained or examined a copy of the source.

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Dear George:

May I suggest the following materials which may be of interest to your social indicator project.

1. Intradepartmental memos and drafts of papers
 - a.
 - b.
2. Articles and books to be included in next annotated bibliography
 - a.
 - b.
3. Relevant Masters theses and Ph.D. dissertations
 - a.
 - b.
4. Professional meetings with topics related to social indicators
 - a.
 - b.
5. Conferences and seminars
 - a.
 - b.
6. Additional comments

Sincerely,