This annotated bibliography contains 97 entries to aid those interested in the problems and techniques of comprehensive program planning. It is designed for educators who feel that systems analysis, cost-benefit studies, and mathematical models have some relevance in the planning processes of a large school system. Three major sections are included: (1) Educational/Program Planning, including studies dealing with the needs and problems of comprehensive and longrange planning by educational institutions; (2) Program Analysis Techniques, containing entries dealing with the use of specific techniques such as systems analysis and operations research in the analysis of educational and related problems; and (3) Planning-Programming-Budgeting Systems, including documents applying principally to the interface between planning and budgeting. (Author/HW)
EDUCATIONAL PROGRAM PLANNING
AND
RELATED TECHNIQUES
(Annotated Bibliography)

Unpublished Report

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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INTRODUCTION

This bibliography has been compiled to aid those interested in the problems and techniques of comprehensive program planning. It has been designed for those educators who feel that systems analysis, cost-benefit studies, and mathematical models do have some relevance in the planning processes of a large school system. While this type of thinking may seem somewhat foreign to educational planning at this time, nevertheless, there are many who feel that methodological approaches such as these may yield efficient planning processes resulting in optimal educational benefits in terms of capital invested.

The following annotated bibliography has been divided into three sections: Educational/Program Planning, Program Analysis Techniques, and Planning-Programming-Budgeting Systems. Documents compiled in the Educational/Program Planning section deal with the needs and problems of comprehensive and long range planning by educational institutions. Items have been included which deal with planning in analogous institutions. The Program Analysis Techniques section contains entries which deal with the use of specific techniques, e.g., systems analysis, operations research, in the analysis of educational and related problems. The Planning-Programming-Budgeting Systems section involves documents which apply principally to the interface between planning and budgeting.

Richard H. Hinds
March, 1969
EDUCATIONAL/PROGRAM PLANNING


Six articles critically analyze the process of educational planning from the underlying assumptions to the practical problems of implementation.


A comprehensive review of the state of the art of educational planning in many countries from the standpoint of theory, social-demand approach, manpower-requirements approach, cost-benefit approach, and models.


Treats certain inadequacies of the U.S. educational system involving a lack of well-defined goals, inadequate measuring procedures. Avail.: ERIC: EDO17738.

A review of 25 possible areas of research which seem particularly relevant for educational planning.


An introduction to the concept of systems analysis in educational problem solving.


Economic, employment, population and school information was analyzed as the basis for a proposed long range plan for occupational education. Avail.: ERIC: ED019430.


A framework and plan for studying educational needs in the state of Florida.


A synthesis of patterns of educational planning models.


An example of the use of the Delphi technique in planning the implementation of large scale educational innovations.


Educational planners are currently unable to make decisions effectively about urban education. Various ways to alleviate this dilemma are offered including simulation techniques, cost analysis, etc.


A cursory examination of a planning staff in an English school system.

Koulourianos, Dimitrith. Educational Planning for Economic Growth (Berkeley: University of California, 1967).

The particular characteristics of education as an economic good are examined. Different approaches to educational planning are analyzed including mathematical models.


A discussion of the problems facing educational planners in an attempt to show that although the problems of educational planning are complex, they are amenable to analysis by existing quantitative methodologies.


An examination of the problems and needs of comprehensive planning based on employment projections in nursing education. Avail.: ERIC: ED01546.


Summaries of a seminar which considered the role of educational planning as a means of advancing education and linking it more effectively to overall economic and social development.

An examination of the concept of long range planning particularly as it bears on the university.


A review of the benefits, problems, and needs of long range planning.


Discusses a system designed to provide long range (10 years) projections of educational needs based on anticipated levels of industrial employment. Avail.: ERIC: ED016818.


The objective of this paper is the specification of educational inputs, their interrelationships, and the presentation of the data in the form necessary for a later evaluation of costs and effectiveness.


This document includes a cost model of a large urban school system.


A nontechnical discussion of a symbolic model to be used in planning the location and enrollment size of urban schools. Avail.: ERIC: ED018860.


A review of selected documents received at the clearinghouse dealing with the application of several kinds of planning


A survey with recommendations relevant to long range planning practices in school systems. Suggestions are offered from the insights of industry planners. Avail.: ERIC: ED 020571.


A review of the problems of prognostication for the school planning coordinator.


The major papers delivered at the conference involving the state of the art of educational planning, training needs, systems analysis. Avail.: ERIC: EDO16303.


A model intended to predict the relative cost-effectiveness of alternative educational improvement programs within the same school-community setting. Avail.: ERIC: ED014152.


Bell, C. Cost-Effectiveness as a Management Tool (Santa Monica: RAND, 1964).


An examination of the personnel requirements for a technological design of curriculum.


A program to devise optimal routes for school buses was developed. Avail.: ERIC: ED009293.


An examination of the allocation of resources within certain large school systems (Chicago and Atlanta) and interrelationship of them to certain student outputs.


A review of the cost-quality question in public education.


Analysis of urban educational systems decision making in many areas by use of a developed analytical model. Avail.: ERIC: ED013528.

An introduction to the use of PERT techniques for educational research projects.


Anthology of papers presented at a conference to explore the problems of appraising the benefits from proposed public investment projects. Includes an education-oriented section concerning the benefits of preventing high school dropouts. Avail.: Metro Program Analysis Division Library.


A study to identify the kinds of costs and related data that can be obtained to aid planning and evaluating vocational education. Avail.: ERIC: ED019516.


A discussion of the use of certain economic analyses for long range planning.


A presentation of the efforts of the National Center for Educational Statistics of the USOE. Research Library.


An overview of those tools which enable an estimation of the probable costs and benefits of alternative management strategies.

A technical review of the use of system methodology for various problems.

A comprehensive review of many management techniques applied to educational problems.


A very technical introduction to operations research including mathematical programming and probabilistic models.

The development of a simulation model to aid institutional planning for the undergraduate level of higher education.

Review of a model to analyze the planning of the health sciences faculty at the University of Toronto. Avail.: ERIC: ED017027.

An introductory text for military officers who must examine and use the results of systems analyses.

A comprehensive bibliography of planning and systems documents.

An exploratory study conducted to determine the extent to which systematic quantitative analysis can contribute to educational decisions.


A review of the promises of cost-effectiveness analysis with a case study.


An introduction to systems analysis for those with limited mathematical backgrounds.


An examination of various aspects of the systems approach relevant to education: the systems concept, assumptions, limitations. Avail.: ERIC: ED020585.


An introduction to the use of the critical path method and project networks for project management.


A review of the difficulties and means for conducting cost-benefit analyses of education.


Intended primarily for those who must provide inputs to, as well as use the results of, cost analyses.


An anthology of the use of systems methodology for different military decisions; includes quantitative and semi-quantitative approaches.


Cost-effectiveness analysis is defined and its current use, advantages, and limitations in defense planning described.


A comprehensive review of articles dealing with program analysis techniques; a section pertaining to health, education, and welfare is included.


Case studies involving the use of nonquantitative systems analysis for organizational problems.


Progress report concerning the development of a mathematical model that will provide a method for the analysis of benefits derived from ESEA, Title I. Avail.: ERIC: ED012828.


A comprehensive annotated bibliography of technical notes and studies published by the Division of Data Analysis and Dissemination of the National Center for Educational Statistics (USOE).

A summary of the proceedings of an international group of educational planners, systems analysts, and econometricians. Avail.: ERIC: ED012518.


PLANNING-PROGRAMMING-BUDGETING SYSTEMS


A selected bibliography of documents relating to the design of a PPBES system.


A bibliography of recent documents involving PPBS.


Avail.: ERIC: ED018876.


An introductory examination of the implications of program budgeting.


A framework for the implementation of a PPB system in the public schools.


Metropolitan Dade County, Fla. *PPBS Notebook from the County Manager* (Miami: by the author). Variable paging.

A continuing series of newsletters detailing the progress of PPBS in Dade County metropolitan government and a bibliography of their collections in this field.

A comprehensive review of the implications of program budgeting in the Federal government. An examination of education in the program budget is included.


A nontechnical introduction to the use of systems analysis in program budgeting.


A conceptual framework for program budgeting including the role of budgeting in the government decision-making process.


An annotated bibliography involving both PPBS and cost-benefit analysis in government.