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AN ANALYSIS OF THE DECISION-MAKING PROCESS AMONG SELECTED SUBURBAN CHICAGO HIGH SCHOOL PRINCIPALS AND SELECTED MIDDLE MANAGEMENT EXECUTIVES

by

Margaret Boyian Lundquist

A Dissertation Submitted to the Faculty of the School of Education of Loyola University of Chicago in Partial Fulfillment of the Requirements for the Degree of Doctor of Education January

Margaret Boyian Lundquist Loyola University of Chicago AN ANALYSIS OF THE DECISION-MAKING PROCESS AMONG SELECTED SUBURBAN CHICAGO HIGH SCHOOL PRINCIPALS AND SELECTED MIDDLE MANAGEMENT EXECUTIVES

Statement of the Problem

How do middle management executives in industry and in schools apply the five steps of a decision-making model to their decision making?

Purposè

The purpose of this study is to analyze the decisionmaking process of middle management executives in terms of a model derived from the professional literature. The executives represented suburban high schools and service industries so that a comparison of the two groups according to the model can be considered as a secondary purpose. Specifically, the purposes of the study can be stated as:

- 1. To apply the factors in the decision-making process identified by school and business administrators to an accepted model derived from the literature. The model used for this dissertation follows:
 - 1. Diagnosis
 - 2. Discovering alternative solutions
 - 3. Analyzing and comparing alternatives
 - 4. Selecting the plan to follow
 - 5. Evaluation

- To identify those steps in the model which are most difficult to implement by the sample population.
- 3. To compare the two groups of administrators on the basis of problems and issues encountered in applying the model.
- To recommend procedures relevant to the decisionmaking model to improve its applicability.

Procedure

- A) The literature was surveyed to determine relevant findings on the topic of decision making. The literature explored represented education and industry.
- B) The sample consisted of twelve high school principals and twelve middle manager positions in a service industry. The sample was drawn from suburban Cook County locations.
- C) A telephone survey was made of suburban high school principals and middle management executives in large diversified industries to determine whether they meet the criterion of three years experience and whether they are willing to participate in the study.
- D) An interview guide was used to derive responses which were analyzed relative to the structure of the decisionmaking model used as a frame of reference.

<u>Conclusions</u>

Major Conclusions for Both Groups

- Step One (Diagnosis) In diagnosing a problem subjective judgment is the primary and most frequently mentioned criterion.
- Step Two (Discovering Alternative Solutions) The data revealed little evidence that alternative solutions are sought.
- 3. Step Three (Analyzing and Comparing Alternatives) -Since few alternative solutions are discovered by the respondents their analysis is generally limited to solution which relate to financial, time, and legal consequences.
- Step Four (Select a Plan to Follow) No systematic approach to the selection of a plan to follow is evident.
- Step Five (Evaluation) In evaluating decisions made the reliance is on subjective criteria rather than on a systematic approach to evaluation.

In addition to the major conclusions for each Step sev-

eral other conclusions can be stated:

1. There are only minor differences in the application of the model reported by the middle managers and principals.

2. Recognition and application of affective concerns are common in the decision making of the middle managers and principals.

3. Middle managers and principals are comfortable in the way that they make decisions.

4. No evidence or worry about pitfalls in decision making emerged from either group.

5. The authority of the position is well recognized by respondents of both groups.

6. Recognition of hierarchy is clear and is followed even with the subjective elements noted before.

7. Indications of potential communication problems exist in business and in school.

8. Use of the computer is widespread but data received are basic.

9. Research when used is limited in scope. Research on staff development, motivation, and other personnel matters is not used.

10. Brainstorming is used frequently and is open ended but the results do not play an important part in the final decision.

11. Participatory decision making is misunderstood.

Recommendations

1. Apply the knowledge of a decision-making process to decision making.

- 2. Keep all key persons in a hierarchy well informed.
- 3. Expand the use of research.
- 4. Expand the use of computers.
- 5. Keep current in the literature of decision making.

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Lastly, the author is deeply indebted to her husband, Cole, for his kindness, patience and moral support throughout her graduate studies.

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VITA

Margaret Boyian Lundquist is the daughter of Charles and Rose (Moughamian) Boyian and the sister of Carol Boyian Waldman. She was born in Evanston, Illinois, on April 30, 1951. She married Cole David Lundquist, M.D. on September 27, 1980.

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CHAPTER I

INTRODUCTION

There can be little doubt that executives must make decisions. Their responsibility to run an enterprise cannot be carried out without making formal and informal decisions. The purpose of this study is to investigate the formal decisionmaking process of selected school and business administrators. Since high schools are generally more complex than elementary schools, the variety of decisions made by a high school administrator warrants study. Similarly, middle management executives in business must make a wide range of decisions in their job performance. If the decision-making process is to be more than a mere personal reaction to a situation, some objectivity must be a part of the process. A model which designates steps in decision making can provide that objectivity. This model can be used by middle management in schools as well as in busi-Since middle management by definition is subordinate to ness. top echelon management, the use of a model for decision making may indicate that careful consideration has been given to those decisions made on the middle management level. The application of a model for decision making can provide a rationale for the decisions made so that the decisions can be justified as not

being capricious or arbitrary, at least in terms of a structure. The validity of decisions made can always be viewed subjectively, but the approach used can be interpreted as a type of objectivity.

The essential elements in a decision-making process provide the structure which must be used by the decision maker whether he is in education or in some other field. By following the structure the decision maker can be assured that the process of decision making is sound and logical. For years, education and business have been analyzed in reference to differences in their final product. One area which is of importance to both fields is the decision-making ability of those empowered to make decisions. Thus a comparative study of the rationale for decision making in schools and in business is worthy of study.

In order to provide depth to an analysis of decision making those decisions which are dictated by law, policy, and/or rule and regulation are excluded from the data. The focus in the data is on non-routine decisions relating to personnel matters and which require the exercise of options. The decisions to be studied are similar to what Simon calls non-programmed decision making.¹

¹Herbert A. Simon, <u>The New Science of Management Deci</u>-<u>sion</u>, (New York: Harper and Row, 1960), p. 5-26.(New York: The Free Press, 1965), p.

A model for decision making, derived from the literature, can be the framework for comparing the decision-making process in the two fields mentioned above. In his text, <u>Administration of Public Education</u>, Stephen Knezevich synthesizes the essential elements in the decision-making process espoused by certain administrative theorists (Simon, Taylor, Newman and Sumner, and others).² From this synthesis a structure can be developed which is applicable to education and to business.

Knezevich lists seven steps in the decision-making process which he cites as a synthesis of those steps frequently found in the professional literature. Sumner and Newman specify four steps which are similar to the seven steps of Knezevich. These four steps of Sumner and Newman were selected as the steps for the decision-making model used in this dissertation and the addition of a fifth step "evaluation." This fifth step was added because it is found frequently in the literature.

The model used for this dissertation follows:

- 1. Diagnosis
- 2. Discovering alternative solutions
- 3. Analyzing and comparing alternatives
- 4. Selecting the plan to follow
- 5. Evaluation

²Stephen J. Knezevich, <u>Administration of Public</u> <u>Education</u>, (New York: Harper and Row, Publishers, 1975), p. 60-61. These five points will serve as a structure to analyze the decision-making process of persons sampled. For the purpose of clarity these five steps will be referred to as a model.

Statement of the Problem

The impact of decision making has so many ramifications that whimsical and capricious bases for the decisions can be serious problems. There is sufficient evidence in the literature that there are common steps in decision making which can be organized and specified as a direction for the decision maker. If some clearly stated steps which are deemed essential by the experts to the decision-making process can be specified, they could be followed to some degree. If followed, the process of decision making should be improved.

Since the literature relating to decision making is not written exclusively for school principals or middle management executives in industry, the elements in the process can be applicable to both groups.

An analysis of the four purposes cited in "Purpose of the Study" can reveal, at least implicitly, guidelines and directions for those who are faced with making important professional decisions. Thus, a simple statement of the problem can be posed in the following question: How can adherence to a decision-making model improve the decisionmaking process?

Purpose of the Study

The purpose of this study is to analyze the decisionmaking process of middle management executives in terms of a model derived from the professional literature. The executives represented suburban high schools and service industries so that a comparison of the two groups according to the model was considered as a secondary purpose. Specifically, the purposes of the study are stated as:

- To apply the factors in the decision-making process identified by school and business administrators to an accepted model derived from the literature.
- To identify those steps in the model which are most difficult to implement by the sample population.
- 3. To compare the two groups of administrators on the basis of problems and issues encountered in applying the model.
- To recommend procedures relevant to the decisionmaking model to improve its applicability.

The Procedure

- A) The literature was surveyed to determine relevant findings on the topic of decision making. The literature explored represents education and industry. Many of the early administrative theorists originally derived their insights from government and industry. More recent theorists have applied these early views to educational settings. Thus, the literature provides interesting cross references to both fields.
- The sample for the study was determined. The sample B) consisted of twelve high school principals and twelve middle manager positions in a service industry. The sample was drawn from suburban Cook County locations. These two levels of management were chosen for this study because in education and industry there is a hierarchical superior who can overrule the decisions made, a factor which can influence the decisions themselves. Moreover, a principal in the school and the middle manager in industry typically deal closely with the people on a daily basis who are affected by their decisions. The sample will represent a cross section of administrators with a minimum of three years experience either as a high school principal in one school or as a middle management executive in one job in industry. Three years was chosen as sufficient time for a variety of

decisions to have been made by the executive. Thus, their responses were based on experience as decision makers.

- A telephone survey was made of suburban high school C) principals to determine whether they meet the criterion of three years experience and whether they are willing to participate in the study. A telephone survey was made of large diversified industries such as also Allstate, A. C. Nielsen, Underwriters Laboratories, and Illinois Bell. Companies similar to these examples were used depending upon their willingness to cooperate in the study. The companies chosen dealt in services rather than production of materials because there may be a less structured situation in the former than in the latter. Middle management is defined as a person in charge of a department or division within the industrial organization. A sample of twelve principals and twelve middle managers comprised the sample for an in-depth interview. The determination of twelve is sufficiently large to draw conclusions which can be representative of each group.
- D) The structure of the model indicated the types of questions asked during the interview. (See Appendix for Interview Guide.)
- E) The responses were analyzed relative to the structure of the decision-making model used as a frame of reference.

The analysis is in narrative form focusing on patterns, trends, differences, and unique approaches in decision making as they relate to and depart from the decisionmaking model. The analysis was directed toward each group separately (middle management/high school principals) as well as to a blending of both groups. Tables were not used because the responses did not lend themselves to tabular representation. The application of the findings to the model presented no difficulty in terms of structure. The steps in the model are sufficiently different to warrant clear classification. Where ambiguity exists, reference was made to this lack of clarity. As anticipated, little difficulty was encountered in identifying each step of the model with the responses relating to it.

Assumptions

The study was based on the following assumptions:

- The decision-making model has relevance to high school principals and to middle management executives in service industry.
- There will be differences in adherence to the decision-making model within groups and between groups.
- An analysis of the model will lead to conclusions applicable to both groups.

Delimitation of the Study

The results of the interview responses were limited to a geographic area - North, Northwest and West Suburban Cook County, Illinois. Because of the nature of the interview process, the sample was limited to a manageable number of participants for the study. If a larger number of interviews had been conducted, the scope of the study would have been applicable to a broader base. As conducted, the results are limited only to the sample population. The implication of the findings can be extended beyond the sample, but a question of reliability would then arise.

Another way in which the study is delimited is in terms of the accuracy and honesty of the responses provided by the participants. Still further, the interpretation of middle management in service industries was limited to those who had responsibility for a department regardless of the number of workers within the department. A different interpretation of middle management executive in industry could lead to different conclusions from those developed in this study.

A final delimitation is that the decisions studied focused on personnel matters and required the exercise of options with consequences on the part of the decision maker. As stated in the introduction, the decisions studied were similar to what Simon called nonprogrammed decision making. If routine decisions had been studied, perhaps the findings would have been different.

Definition of Terms

For the purpose of this investigation, the following definitions of terms were applicable.

<u>Decision-Making Model</u> -- The five steps common to decision making, four of which were identified by Sumner and Newman, plus a fifth step called "evaluation".

<u>Decision-Making Process</u> -- The application of a systematized five-step approach to making decisions.

<u>Middle Management</u> -- A level of management where a person is in charge of a department or division within a service industry and whose decisions are subject to a hierarchial superior.

<u>Nonprogrammed Decisions</u> -- A concept developed by Simon which requires decisions to be made which are not prescribed by policy or by routine procedures.

<u>Service Industry</u> -- An industry which focuses on service rather than providing a product.

Instrument

The instrument used to collect data for this study was a series of interview questions. This instrument was developed from the structure provided by the five steps in the decision-making model. The questions reflected the implications arising from an analysis of the literature and the treatment by Knezevich on the topic of decision making.

Since these questions were not developed from an existing interview guide, they were submitted to a panel of experts for possible modification. The panel of three experts who were not part of the sample read and reacted to the Interview Guide and their suggestions for modification were incorporated into the final set of questions used during the interview.

The group of experts was asked to evaluate the instrument according to its relevance to the model by answering such questions as:

- 1) Are there specific items which should be submitted?
 - 2) Are there specific items which should be altered?
 - 3) Are there specific items which should be added?
 - 4) Do you have any other suggestions that would improve the instrument?

As noted on the Interview Guide (see Appendix) the questions were planned to allow tangents to be pursued. Where this pursuit became a reality, appropriate notation and explanation are included in the presentation and analysis of data.

The questions were organized so that some of them would relate to each of the five steps in the decision-making model.

The use of an interview approach can be justified by the following quote:

By means of the interview, it is possible to secure data that cannot be obtained through the less personal procedure of distributing a reply blank. People do not generally care to put confidential data in writing; they may want to see who is getting the information; and receive guarantees as to how it will be They need the stimulation of personal contacts used. in order to be drawn out. Furthermore, the interview enables the researcher to follow up leads and take advantage of small clues; in complex materials where the development is likely to proceed in any direction, no prepared instrument can perform the task. Again, the interview permits the interviewer to gain an impression of the person who is giving the facts, to form some judgement of the truth of the facts, 'to read between the lines,' things that are not said.³

³Carter V. Good, A. S. Barr, and Douglas E. Scates, <u>The</u> <u>Methodology of Educational Research</u>, (New York: Apple-Century-Crofts, Inc., 1941) p. 378.

Interview Administration and Analysis

The interview instrument was administered to twelve high school principals of suburban North, Northwest, and West Cook County and to twelve middle managers from service industries in suburban Cook County.

The respondents to the interview were selected as the result of a telephone inquiry concerning their willingness to participate in the study. The principals selected for participation represented twelve schools and the managers represented ten businesses.

The interview was intended to elicit responses which related to the five steps in the decision-making model. The open ended nature of most of the questions provided the opportunity for the respondents to answer the questions in a variety of ways. The focus on the five steps of the model, however, was maintained by adhering to the interviewing format.

The responses provided the basis for the narrative analysis of this study. The analysis was structured to attempt to provide information on the following concerns:

 Similarities and differences in utilizing the decision-making model in schools and in service industries.

- Strengths and weaknesses in utilizing the decisionmaking model in schools and in service industries.
- 3) Problems and pitfalls encountered in utilizing the decision-making model in schools and in service industries.
- Advantages and disadvantages in utilizing the decision-making model in schools and in service industries.
- Patterns and trends in utilizing the decisionmaking model in schools and in service industries.

Structure of the Dissertation

- <u>Chapter I</u> Chapter I presents an overview of the purpose and major structure of the study. The decision-making model is explained in derivation and in concept. Major questions to be analyzed are presented and key definitions are made.
- <u>Chapter II</u> A review of related literature is presented in this chapter. In this review an attempt is made to develop a historical perspective of development in the study of decision making in education and in industry. Relevant studies, articles, and books are included in this review.

- <u>Chapter III</u> In this chapter the data are presented and analyzed. The structure of the chapter will provide clear delineation between the data collected and the analytical interpretations applied to them. At the end of each step in the decision-making model a summary of the data and of the analytical comments will be presented.
- <u>Chapter IV</u> Conclusions, recommendations based upon conclusions, and implications for further study will comprise the essence of Chapter IV.

CHAPTER II

REVIEW OF RELATED LITERATURE

There is an abundance of literature dealing with decision making. This literature includes books, dissertations, other studies, and articles. There is not much literature, however, that analyzes the application of an eclectic, synthesized version of key elements in decision making to decision makers. Thus, the review of related literature which follows contains views and studies which relate to the focus of this dissertation but which are related more indirectly than directly. The substantiation of this conclusion has been derived from an ERIC Search and a search of dissertation abstracts which have revealed a variety of findings on a variety of related topics, but none on the topic treated in this investigation.

In spite of the indirect nature of the relationship of these writings, there are implications which can be beneficial and germane to this present study. The literature to be reviewed is categorized by source rather than by topic. The three categories are books, dissertations, and articles and reports.

In an attempt to gather data on related literature, the decision was made to begin with the year 1973. The major reason for this decision is an emphasis on the current status of decision making. Since making decisions is probably as old as the history of man, the background for why decisions must be made is too evident to warrant justification. Thus. it can be assumed that decision making is an important aspect of administration. Moreover, it is a given that the generally cited aspects of decision making can be organized into a model with applicability to decision makers. The importance of current emphasis is due to the many social, political, and economic changes that characterize schools and industry since 1973. For example, since 1973, there has been a significant. decrease in school population; the job market has tightened, recession and inflation have affected industrial priorities, and the political scene has changed dramatically. Although these factors will not be explored in this study, their importance cannot be denied. The consequences of decisions made under the influence of these factors reflect current issues rather than dated problems. Thus, only current related literature is reviewed.

An exception to the above date has been made in the review of books which deal whole or in part with the topic of this study. The reason for this exception is that the theorists who are relevant to this study have predated 1973. Their views can serve to present a modicum of historical perspective, but this perspective is secondary to the major focus of this dissertation.

As stated, the three categories under which the review of literature is classified in this study are books, dissertations, and articles and reports.

Books

The many facets of decision making have been treated in numerous books. The gamut of subtopics related to decision making includes the rationale for the process, the ingredients in the process, and the consequences to be considered. For example, John W. Sutherland in his text, <u>Administrative Decision-Making</u>, analyzes decision making under the topics of: 1) Sources of Suboptimality, 2) The Structure of Decision Responsibilities, 3) Decision Performance and Propriety, 4) Aspects of Decision Discipline and 5) Managing the Decision Function.⁴

There can be little doubt that the above topics are germane to decision making, but the examination of these topics is beyond the scope of this study. In order to keep within the bounds of this study. the review of literature was limited as much as possible to the process of decision making.

⁴John W. Sutherland, <u>Administrative Decision-Making:</u> <u>Extending the Bounds of Rationality</u> (New York: Van Nostrand Reinhold Company, 1977), p. xiii-xiv.

Additional relevant aspects of decision making are noted where appropriate, but there is no intentional emphasis on these aspects.

Craig C. Lundberg's treatment of "the analysis of decisioning" includes the following:

> The sequences presented in the literature contain four to nine steps, most of which are deemed essential and which must be accomplished in a definite order. It is assumed that everyone who follows the sequence of steps will arrive at a very similar conclusion. A typical set of steps would be: 1) Recognize, define and limit the problem 2) Analyze and evaluate the problem. 3) Establish criteria or standards by which solution will be evaluated or judged as acceptable and adequate to the need. 4) Collect data. 5) Formulate and select the preferred solution or solutions. Test them in advance. 6) Put into effect the preferred solution.⁵

In <u>The Decision-Maker's Handbook</u>, Alexander H. Cornell is more formal in his treatment of decision making.⁶ He refers to the necessity of a "Systems Analysis." He describes an approach based on the research of Quade and Boucher which is presented as critical steps of Systems Analysis.

⁵William J. Gore and J. W. Dyson, editors, <u>The Making of</u> <u>Decisions: A Reader in Administrators Behavior</u> (New York: The Free Press of Glenco, 1964), p. 23.

⁶Alexander H. Cornell, <u>The Decision-Maker's Handbook</u> (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1980), p. 18. Systems Analysis is a cycle of:

- Defining objectives (problems and opportunities).
- Designing alternative systems to achieve those objectives.
- Evaluating the alternatives in terms of effectiveness and costs.
- 4. Questioning the objectives and all assumptions.
- 5. Opening up new alternatives,
- 6. Establishing new objectives,
- 7. Repeating the cycle until a satisfactory solution is reached; hopefully, the optimum solution, whether it be in keeping with the criteria of effectiveness, cost, or both.⁷

Cornell discusses open and closed systems as factors which can be affected by Systems Analysis. He presents models and flow charts to illustrate these relationships.⁸

John B. Benton discusses terms like "systems analysis," "effectiveness evaluation" and "problem-solving methods" as descriptors of a process which includes the major steps which are typically cited as the steps in decision making.

> The paradigm usually begins with the identification of an issue or a problem. The next step involves the establishment of an objective or two, as an effective response to the issue. Subsequently, alternative courses of action are identified and subjected to some kind of evaluation. The methods contribute something to the evaluation. The methods

7Ibid., p. 18.

⁸Ibid., p. 18-21.

use different evaluation criteria - some being nonbehavioral and amenable to metric evaluation, others being highly behavioral and unassociated with metric evaluation. Ultimately, the data and relationships developed throughout the analysis are considered within that set of information against which someone, or some group, will make the initial choice.⁹

In attempting to explain systems analysis further, Benton states, "Too frequently, we have mistakenly employed a technical, economic or mathematical micro analysis to investigate problems involving many other variables of equal importance ... The sub-optimization tendency may account for the fact that systems analysis so often fails in its mission."¹⁰

K. Forbis Jordan views the decision-making process as three steps: identification of the problem, review of alternative solutions, and choice of the appropriate solution.¹¹ He considers this process as one of four interrelated functions - decision making, implementation, communication and evaluation.¹²

⁹John B. Benton, <u>Managing the Organizational Decision</u> <u>Process</u> (Lexington, Massachusetts: Heath and Company, 1973), p. 17.

10Ibid., p. 21.

¹¹K. Forbis Jordan, <u>School Business Administration</u> (New York: The Ronald Press Company, 1969), p. 27.

¹²Ibid., p. 26.

This simple, yet encompassing treatment, is similar in some respects to Herbert A. Simon's definition of decision making. "Decision making comprises three principal phases: finding occasions for making a decision; finding possible courses of action; and choosing among courses of action."¹³

In their text, Newman and Sumner describe decision making in four phases: 1) diagnosis, 2) discovering alternative solutions, 3) analyzing and comparing alternatives, and 4) selecting a plan to follow.¹⁴

In his text, <u>Organizational Behavior in Schools</u>, Robert G. Owens discusses administration and decision making.

> ...decision making is the key function or activity of administrators. Litchfield, for example, sees administration as a cycle of activities which begins and ends with decision making: 1) decision making, 2) programming, 3) communicating, 4) controlling, and 5) reappraising. This cycle which, for Litchfield comprises the 'administrative process', involves the administrator not only in the making of decisions, but in the establishing of arrangements to implement these decisions (programming), to keep the organization informed (communicating), to adhere to the plans decided upon (controlling), and to evaluate results (reappraising). Presumably, a new cycle of administrative process will flow from a reappraisal.¹⁵

¹³Simon, <u>The New Science of Management & Decision</u>, p. l.

¹⁴W. H. Newman and C. E. Sumner, Jr., <u>The Process of</u> <u>Management</u> (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1961), p. 261-262.

¹⁵Robert G. Owens, <u>Organizational Behavior in Schools</u> (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1970), p. 90.

In a book written for business managers, John D. Arnold lists seven building blocks for decision making.

1. Smoke out the issue.

2. State your purpose.

3. Set your criteria.

4. Establish your priorities.

5. Search for solutions.

6. Test the alternatives.

7. Troubleshoot your decision.¹⁶

Other authors tend to treat decision making in more complicated terms. William J. Gore, in his presentation of a general model of the decision-making process, includes Goals, Social Structure, Tension Network, Perception Phases, and Disregard Response. He organizes the model into Phase I – Perception, Phase II – Evaluative Set, Phase III – Estimation of Consequences, and Phase IV – Maneuver for Position. Accompanying his treatment of the topic are eight charts.¹⁷

Sutherland's treatment of decision making is thorough and theoretical. His text abounds with diagrams, figures, and mathematical formulas which are intended to clarify the

16john D. Arnold, <u>Make Up Your Mind! The Seven Build-</u> ing Blocks to Better Decisions (New York: Amacom, 1978), p. 24-26.

¹⁷William J. Gore, <u>Administrative Decision-Making: A</u> <u>Heuristic Model</u> (New York: John Wiley and Sons, Inc., 1964), p. 36-101. specifics of decision making as noted in his Table of Contents.¹⁸

Throughout the references cited in this section there are some common threads. These threads demonstrate the rationale for selecting the five-step model explained in Chapter I of this study.

Throughout these references, it can also be noted that there are implications for factors generated by the decisionmaking process used. These implications relate to communication, authority, leadership style, personality, risk perceptions, and related concerns. As stated, the review of the literature presented in this section is intended to center upon the decision-making process itself and not on these other factors, despite their relevance. In some measure these factors are considered in the interview data gathered and are treated in the presentation and analysis chapter of this study.

¹⁸Sutherland, <u>Administrative Decision Making</u>, p. xiii-xiv.

Dissertations

The popularity of the topic of decision making is evident in that there are many dissertations dealing with many aspects of this topic. For purposes of this study those dissertations which treated certain conditions and/or variables in decision making were singled for inclusion. For those dissertations not included (See Bibliography for listings) the emphasis in each of them was on some other phase of decision making rather than on the process itself. Those included here are more relevant to the purposes of this study.

Glenda W. Harlow investigated to what extent, if any, secondary principals exhibit rational behavior in the decision-making process.¹⁹ One of the assumptions in this study was that principals are aware of how they arrive at decisions and can intellectually describe that process. Harlow found through her interview method that secondary principals do exhibit rational behavior while making decisions; however, no consistent pattern was found that could be identified as a rational decision-making process.

¹⁹Glenda Whitaker Harlow, "A Study of the Usefulness of the Focused Interview as a Method to Determine if Secondary Principals Exhibit Rational Behavior in the Decision-Making Process" (Ph.D. dissertation, The University of Alabama, 1979), <u>Dissertation Abstracts International</u> 40 (April 1980), p. 5267-A.

The findings in this study have definite implications for decision making:

- The inference has been made that secondary principals may not exhibit consistently a pattern of rational behavior in the decisionmaking process. Principals should become more consistently aware of the steps relevant to rational decision making and follow those steps in the decision-making process.
- The lack of evidence to support the assumption that principals base some of their decisions on personal biases and external pressures.
- Researchers should continue to strive to develop methodology for studying rational behavior in the decision-making process.
- 4) Researchers should place increased emphasis on the applicability of theories in the behavioral sciences to problems facing the practicing administrator.²⁰

Hence, the need to study the decision-making process is important. Decisions made in a non-systematic way can be haphazard if no rational, well thought out approach is made to decision making. The lack of support of evidence in Harlow's study relative to the implementation of these elements led Harlow to recommend that further study be done in this area. In itself, this recommendation can be considered as a justification to warrant the research undertaken in this study.

20Ibid., p. 5267-A.

Guzzo's study examined two factors that affect the quality of decisions made by managerial groups: 1) the nature of the decision problem and 2) aspects of the social dynamics of managerial groups.²¹

The sample population in this study was 72 managers who were asked questions dealing with group decision making. The quality of their decision making was analyzed. Quality was defined and measured with reference to the process of decision making into the following five categories: 1) openness to new information, 2) legitimacy of conflict, 3) rationality of choice, 4) clarity and detail, and 5) checks on the process.²²

The study found that these five dimensions of quality were related systematically to the nature of the decision problem, aspects of the social dynamics of managerial groups, and the interaction of these two factors. One type of decision making classified as "emotive" was found to be "negatively associated with decision making quality."²³

²³Ibid., p. 3403-A.

²¹Richard Anthony Guzzo, "The Decision Making Quality of Managerial Groups" (Ph.D. dissertation, Yale University, 1979), <u>Dissertation Abstracts International</u> 40, p. 3403-A.

²²Ibid., p. 3403-A.

In the study under investigation, emotions (emotive decision problems) are not studied directly. It is intended that the interview may uncover facets of decision making which have emotional overtones and these will be noted when they appear. But this factor will not be studied in depth. Relevant implications of emotion will be treated, where appropriate, in the analysis.

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Moreover, although the quality of decision making was studied in reference to the process of decision making in Guzzo's study, quality itself will not be treated in this study as a high priority concept. The value aspect of assessing quality is beyond the scope of this study, but it cannot be ignored. Thus, some of the questions in the Interview Guide have been directly related to quality.

Charles J. Shirley investigated the relationship between high school principals' attitude toward participatory decision making and 1) organizational leadership and technical management dimensions of role conception, 2) level of career aspiration, 3) degree of expressed career satisfaction, and 4) biographic and demographic data.²⁴

²⁴Charles John Shirley, Jr., "The Relationship of Secondary School Principals' Attitude Toward Participatory Decision-Making and Role Conceptions as a Function of Their Bureaucratic on Post-Bureaucratic Orientation" (Ph.D. dissertation, University of Pittsburgh, 1972), <u>Dissertation</u> <u>Abstracts International</u> 33, p. 4030-A.

Shirley found that there was a significant relationship between the principals' attitude and the degree of emphasis placed on technical management. However, there was no relationship between principals' attitude and organizational leadership. No conclusive evidence was found regarding the principals' attitude toward participation in decision making relative to career aspiration or degree of career satisfaction. Shirley did find that the principal's attitude toward participatory decision making and his semester hours of graduate credit were significant at the .05 level.²⁵

Although the focus of investigation by Shirley is interesting, there will be no attempt to investigate these considerations further in the study under investigation.

Bruce K. Blaylock attempted to find out which of three factors had the most impact on decision making: 1) environmental context of the decision, 2) the decision makers own information processing preferences, or 3) objective risk measures.²⁶ Blaylock studied MBA students at Georgia State University, merchants, and middle managers in the communications industry. All participants in his study had at least three years of experience in business.

²⁵Ibid., p. 4030-A.

²⁶Bruce Kevin Blaylock, "Interactive Effects of Classificatory and Environmental Variables in Decision-Making Under Conditions of Risk" (Ph.D. dissertation, Georgia State University, 1980), <u>Dissertation Abstracts International</u> 41 (December 1980), p. 2678-A.

Using appropriate statistics for his experimental design, Blaylock concluded that there is a "melding together of all factors, environment, objective, and psychological which directs behavior under conditions of uncertainty."²⁷ Although Blaylock attempted to isolate selected variables affecting risk, his conclusion is important in that it suggests that risk itself is not a single entity. Therefore, there may be other variables which are blended when one decides to risk a given course of action. The Interview Guide in this study allowed the participants to comment on some of these variables. As middle managers they must know that their decisions can be overruled and therefore the element of risk is greater on their level than on the level of their superiors.

McCarthy studied the relationship between personal characteristics of high school principals, selected decision situations, and the principal's decision making behavior.²⁸

McCarthy found that there was no relationship between the principal's personal attributes and his decision-making

27 Ibid., p. 2678-A.

²⁸Walter Loring McCarthy, "A Study of the Relationship Between Leadership Behavior, Locus of Control, and Decision-Making Style of Connecticut Public High School Principals" (Ph.D. dissertation, University of Connecticut, 1977), <u>Dis</u>sertation Abstracts International 39, p. 3797-A.

style. In given decision situations, a relationship existed between Locus of Control and decision-making style. It was found that principals did modify their decision-making behavior when faced with different decision situations.

The emphasis on leadership style in McCarthy's study is not a significant aspect of the study under investigation. References to style may emerge from the results of the interviews, but style is not a primary factor in this study. The elements of decision making cited for the framework in this investigation are assumed to be applicable regardless of style.

In Charles W. Woodward's study the emphasis was on an examination of the role of the secondary principal in his problem-solving behavior of job related decision making.²⁹ In his study, Woodward studied how principals make decisions, including their rationale for the decisions made. In his narrative analysis, Woodward was able to draw the following conclusions:

> High school principals are more concerned with human, personal feelings, of those involved in problems and acting as moderators in personnel conflicts than they are of following a prescribed problem solving, decision-making technique.

²⁹Charles William Woodward, "Decision-Making and Problem-Solving in the Secondary School Principalship: Perceptions of Secondary School Principals and Significant Others" (Ph.D. dissertation, University of Utah, 1979), <u>Dissertation</u> Abstracts International 38, p. 7076-A.

2) Effective principals do follow the problem solving and decision-making procedures suggested in the literature; however, they have added an additional dimension -- the consideration of human feelings in final problem resolution and decision making.³⁰

Reference to these conclusions can serve as a guide in interpreting some of the results of the interviews conducted for this investigation. If indeed the "effective principals" follow the decision-making procedures derived from the literature, their emphasis on human feelings may appear in the results of this investigation. Moreover, the influence on the adherence to specific steps may serve as a basis of comparison between and among groups which serve as the sample for this study. Reference to this possibility is included in the Interview Guide utilized in this study (see Appendix).

Another aspect of decision making which has some bearing on the study under investigation is Clark R. Stone's dissertation which analyzes decentralization and decision making.³¹ He studied elementary, secondary, and unified

30Ibid., p. 7076-A.

³¹Clarke Raymond Stone, "Decentralization and Decision Making: An Analysis of the Perceptions of High School Principals and Central Office Administrators" (Ed.D. dissertation, University of Southern California, 1973), <u>Dissertation</u> <u>Abstracts International</u> 34, p. 3797-A.

school districts in California. These districts were located in Los Angeles and Orange County.

Among his conclusions was the following: "Administrative decentralization is a more effective way of solving educational problems than having decisions made at the central office level."³²

This conclusion, restated in Stone's recommendations, has potentially significant implications for the middle managers role in decision making. Although the role of the administrator above the level of middle manager is not a part of this study, the implications deriving from Stone's finding were utilized in the analysis of the results in this dissertation.

Marshall Jenkins' dissertation entitled, "A Study of Connecticut Secondary Principals' Perception of Decision Making Prerogatives in the Administration of Schools" attempted to determine whether decision making is a cooperative or individual process in Connecticut high schools.³³

Through the use of a questionnaire, Jenkins reached several conclusions:

³²Ibid., p. 3798-A.

³³Marshall Jenkins, "A Study of Connecticut Secondary Principals Perception of Decision Making Prerogatives in the Administration of Schools" (Ph.D. disertation, University of Connecticut, 1972, <u>Dissertation Abstracts International</u> 33, p. 5440-A.



- The secondary principal had major responsibility for decisions in extra-duty assignments, scheduling of faculty meeting, selection of substitutes, student suspension, student transfer and the behavior of students.
- 2) The principal shared major decision making responsibility for professional personnel.
- Decisions concerning the overall operation of the school program was shared by principals, teachers and often the superintendent.
- In most areas of educational activities, decision making was seen as a cooperative endeavor.
- 5) There seems to be a significant relationship between the principals' perception of decision-making prerogatives and the variables relating to age, administrative and teaching experience, size of the school, and kind of community in which the school is located.
- 6) Although there are areas such as scheduling of faculty meetings, selection of substitute teachers, student behavior and dress, and student suspension, in which teachers do not seem to be involved, high school principals generally view the decision-making process as a cooperative one.
- 7) Teachers and other professionals were included in decisions concerning student affairs (except discipline), teacher affairs and instructional activities. Other areas seem to be the responsibility of the superintendent and principals.³⁴

Overall, Jenkins substantiated the fact that secondary principals perceived the decision-making process as a cooperative one. The application of this emphasis on

³⁴Ibid., p. 5440-A.

cooperation, if applied to the five-step process for decision making utilized in this study, can be a framework for analysis. The probable influence of a cooperative, or participatory concept of decision making led to interesting speculations in this dissertation.

A study by Hayes analyzed management development programs in private industry and in public elementary schools.³⁵ The study attempted to isolate areas of similarities and differences in the components of management development programs in public education and in private industry.

A major finding of this study supported "the concept that there are similar components that are included in management development programs in both industry and education."³⁶ An implication of this finding which is relevant to the study under investigation is that there may be similarities in the decision-making process in education and industry since there is a similarity of purposes in management development programs.

As in the case of the other dissertations cited, this implication is a possible framework for an analysis of the results obtained in this study.

³⁵Charles Henry Hayes, "Comparison of Management Development Programs in Industry and Education in Cook County, Illinois" (Ed.D. dissertation, Loyola University of Chicago, 1979).

³⁶Ibid., p. 225.

Articles and Reports

The articles selected for review cover a broader range than the text selections. The review of books points out clearly the common elements in the decision-making process. As suggested in that review there are factors which can affect the implementation of this process. The articles chosen elaborate both on the process and some of these related factors.

Richard C. Lanaghan provides nine steps to take in making decisions. These steps are very much like those specified repeatedly in the books reviewed. These steps are as follows:

- 1) Identify the problem.
- 2) Identify criteria for judging alternatives.
- 3) Clarify the criteria.
- 4) Rank the criteria.
- 5) Identify alternative solutions.
- 6. Clarify the alternatives.
- 7. Compare alternatives with criteria.
- 8. Rank the alternatives.
- 9. Make the final decision.³⁷

³⁷Richard C. Lanaghan, "Nine Steps to a Major Decision," <u>Illinois School Board Journal</u> 49 (May-June 1981) p. 18-21.

Like Lanaghan, Ronald L. Partin lists steps to enhance decision making. He specifies twelve suggestions which are similar to Lanaghan and to others, but he adds such factors as "make a commitment," "assume responsibility for the decision," "practice decision making," and "know thyself."³⁸

Using a business management model, Joe P. Bail and Harold R. Cushman provide a program planning guide for teachers of adult education.³⁹ The focus is on making management decisions and solving problems including the same kinds of concerns found in models reported elsewhere in this review of the literature. Similarly, a business management model was used by Tom Hephner and applied to advanced distributive education students.⁴⁰

Applying the often cited steps in decision making, Samuel Kostman analyzed shared problem solving.⁴¹ He

⁴¹Samuel Kostman, "Shared Problem Solving, Decision Making,"NASSP Bulletin 62 (January 1978).

³⁸Ronald L. Partin, "A Dozen Ways to Enhance Your Decision Making," <u>NASSP</u> 63 (March 1979).

³⁹Joe P. Bail and Harold R. Cushman. <u>Teaching Adult</u> <u>Education Courses: The Business Management Model</u> (Ithaca, New York: ERIC Document Reproduction Service, ED 141 589, 1976).

⁴⁰Tom Hephner. <u>Industrial Sales Decision-Making</u> (Columbus, Ohio: ERIC Document Reproduction Service, ED 112 240, 1976).

advocated the advantages of shared decision making in terms of upgrading the role definition of administrators and the ongoing improvement in their morale.

Another usage of the elements in a problem solving model was described by Richard and Virginia Peter.⁴² The authors presented the thesis that with values clarification skills, problem solvers can become excellent decision makers. In their article the following problem solving model is presented:

A PROBLEM SOLVING MODEL

State the Problem Collect Data Develop Hypothesis Evaluate Results Test Hypothesis

There are many references in literature to participatory decision making. One article, in particular, analyzes this aspect of decision making in great depth.⁴⁴ Unlike the other

⁴²Richard Peter and Virginia Peter, "Values Clarification Skills: Helping Problem Solvers to Become Decision Makers," <u>Man/Society/Technology</u> 38 (November 1978).

4³Ibid., p. 29.

⁴⁴Frank A. Heller, Pieter J. D. Drenth, Paul Koopman, and Veliko Rus, "A Longitudinal Study in Participative Decision-Making," <u>Human Relations</u> 30 (1977). articles in this review, the authors utilize a two-year longitudinal study of decision makers in three countries. They studied major variables in the decision-making process and arranged them into four groups:

- 1. Personal variables, such as age, education, expectations, etc.
- Situational variables close to the person such as job characteristics, job constraints.
- 3. Microstructural variables, such as span of control, size of department, group climate.
- 4. Macrostructural variables like the size of the total organization, attitude to top management and its rules, uncertainty of the environment.⁴⁵

In their analysis of the impact of these kinds of variables on the decision-making process, one of their major inclusions is "More power sharing in the middle phases than at the beginning or end."⁴⁶ They also conclude that no matter how participative the structures for decision making, "...the decision process also goes on outside the committees."⁴⁷ The implication of these conclusions were applied in analyzing the data in this present study.

⁴⁵Ibid., p. 571.
⁴⁶Ibid., P.581.
⁴⁷Ibid., p. 582.

Another reference to participation in decision making is found in a paper written by Eugene Thompson and Vldis Smidchens and presented at the Annual Meeting of the American Educational Research Association in 1977.⁴⁸ Approximately two thousand lay persons were involved in helping to establish priorities for a school district. The views of these participants were incorporated into the final decision made.

In an article dealing with the complexity of the problems faced by school principals today, Kostman suggests a renewal process for the principal, emphasizing shared problem solving and decision-making structures.⁴⁹ The renewal concept is a version of participative, or using Kostman's term, collaborative decision making.

A different point of view is found in the article by Howard Karlitz.⁵⁰ He described two major threats to school decision-making processes as a result of the increasing

⁴⁸Eugene W. Thompson and Vldis Smidchens, "Process and Problems of Prioritizing Educational Goals in a Complex Society." (New York, N. Y.: American Educational Research Association, April, 1977).

⁴⁹Samuel Kostman. <u>A Case History: Cabinet-Level Re-</u> newal at George Washington High School (New York, N.Y.: ERIC Document Reproduction Service, ED 151 477, 1976).

⁵⁰Howard Karlitz, "Unionization of Educational Administrators in the USA," <u>International Review of Education</u> 25 (1979).

unionization among school principals. This trend separates middle managers from higher echelons, thus minimizing the opportunity for team planning. Also, this trend requires increased specialization of roles which results in constraints as well as formalized definitions of these roles. The impact of these threats can decrease the authority for decision making by principals in that much of their task may be reduced to mere implementation of decisions made by top management or by subordinates.

One explanation for problems in decision making is offered by Arthur Vidich and Charles W. McReynolds.⁵¹ They stated that as individuals the principals considered themselves to be embattled administrators. As a group the principals seem to be struggling to overcome encroachments upon their traditional role. Moreover, they regarded themselves as defenders of the establishment and as targets for criticism. The authors recommend the separation of the role of the principal into two functions: 1) administration of the school building as a business and 2) educational leadership by serving as a head teacher. This recommended separation, intended to clarify the functions of the principals, is

⁵¹Arthur J. Vidich and Charles W. McReynolds. <u>High</u> <u>School Principals Study Seminar</u> (New York, N. Y.: ERIC Document Reproduction Service, ED 037 831, 1969).

viewed by Vidich and McReynolds as a means to provide the principals with more security in the decisions that they make.

The emphasis in a report by Arthur N. Watkins is on the decision-making process in reference to individualized instruction in senior high schools.⁵² The relevant aspect of his report is that the principal is a major factor in the determination as well as the implementation of the decisionmaking process and policy. This conclusion resulted from an analysis of the structures for decision making, the involvement of personnel in the decision-making process, and measures of satisfaction of school personnel with these structures and involvement.

Charles H. Ford studied decision makers in top management echelons.⁵³ His findings have a bearing on the decision-making process of middle managers who, if aware of the role of top management in decision making, can be guided accordingly. The author analyzed eight top level business executives in reference to their decision making. He

⁵²Arthur Noel Watkins. <u>Actual and Ideal Decision-</u> <u>Making Processes utilized in Senior High Schools that Indi-</u> <u>vidualize Instruction</u> (Madison, Wisc.: ERIC Document Reproduction Service, ED 187 Oll, 1978).

⁵³Charles H. Ford, "The 'Elite' Decision-Makers: What Makes Them Tick?" <u>Human Resource Management</u> 16 (Winter 1977).

utilized three categories: 1) their approach to problems, 2) their approach to problem-decisions, and 3) some pertinent personal traits.⁵⁴

Ford found that his sample relied more on self-confidence, risk taking, feelings, and broad impact of consequences than on the collection of data. In other words, the decision makers trusted their own judgment and acted upon it quickly with a willingness to face consequences. Ford also found that "many times the human-effect factor tempered final decisions."⁵⁵ The impact of these conclusions for middle management is very clear.

This chapter pointed out the similarities in the various decision-making models as well as highlighting some factors which can influence what the theorists called "rational decision making." The emphasis in this dissertation is on a rational approach to decision making through the application of a model developed by synthesizing the views of experts in the field. It is important to note, however, that in spite of the implementation of a clearly defined approach to decision making, the impact of other relevant factors such as subjectivity, personality, and values is inevitable. M. P. Heller's comment summarized this point.

⁵⁴Ibid., p. 14.

⁵⁵ Ibid., p. 20.

"Capriciousness and flagrant favoritism in decision making are abuses. Insistence on complete objectivity in decision making is semantically, psychologically, and philosophically unattainable."⁵⁶

⁵⁶M. P. Heller, <u>So Now You're A Principal</u> (NASSP: Reston, Virginia, 1975), p. 25.

CHAPTER III

PRESENTATION AND ANALYSIS OF DATA

The purpose of this study is to analyze the decisionmaking process of middle management executives relative to a five-step model derived from the professional literature. The five-steps around which the interview was structured follow:

- 1. Diagnosis
- 2. Discovering Alternative Solutions
- 3. Analyzing and Comparing Alternatives
- 4. Selecting a Plan to Follow
- 5. Evaluation

The data for this dissertation consisted of responses to an Interview Guide administered to twelve middle management executives in service industries and to twelve high school principals. A copy of the instrument is included in the Appendix. An explanation of the selection of the sample is contained in Chapter I.

Each interview was conducted on a one-to-one basis and each interview lasted a minimum of forty-five minutes. The time devoted to each interview ranged from forty-five minutes to two and a half hours with an average time of eighty-five

minutes per interview. The longer interviews were due to the style in which the interview questions were answered rather than to any change in the questions asked.

The organization of the material presented in this chapter is structured to include each step contained in the model for decision making explained in Chapter I, plus the questions from the Interview Guide which are relevant to each step. For example, Step One is cited and each of the three questions from the Interview Guide which are directly related to Step One are presented and analyzed. In addition to the organization of the steps and the questions, the responses are categorized into three groups: 1) responses from middle management executives, 2) responses from high school principals, and 3) a combination of responses from both groups. When the references to the respondents totaled more than twelve, the explanation is that in some instances the interviewees gave more than one response to a question.

For purposes of clarification, the steps in the model with appropriate notations are presented:

- Diagnosis Location and clarification of problem.
- Discovering alternative solutions Identifying possible approaches and strategies.
- Analyzing and comparing alternatives Appraising a number of possible strategies and consequences.
- Selecting a plan to follow Organizing the chosen alternative into detailed steps for implementation.

5) Evaluation - Assessment of the decision made. The presentation of the data is interspersed with analytical statements where appropriate. The analysis is intended to be sufficiently clear so that there will be no difficulty in determining what is presentation and what is analysis. As an attempt to highlight the difference clearly, in addition to the analytical comments blended into the narrative, at the end of each step a summary of the analysis is presented.

<u>Responses from Middle Management Executives</u>* <u>Step One – Diagnosis</u>

Question 1 - How do you become aware that a problem exists?

An obvious pattern which emerged from the responses to the first question is that the managers relied heavily on personal observation in order to become aware of a problem. A total of eleven out of twelve managers cited observation as very important. In one instance, the manager reported that the facility was built with the concept of open space in mind so that there would be no physical obstruction to the observation of the workers.

The focus of the observations seems to be on the dayto-day routine job performance rather than on attitudes. In three instances, however, the importance of the attitudes of workers was identified as a means of becoming aware of a problem. The positions held by these three managers and the

responses made by them throughout the interview session did not suggest that there is any common thread which they look for in considering the attitudes of workers. However, it should be noted that these three managers did recognize the importance of attitudes. This subject is so popular in educational and managerial circles, yet nine managers did not refer to attitudes as a source of narrowing down a problem.

Another response which was cited frequently (eleven out of twelve managers) was the awareness brought about by subordinates. Observation includes viewing the work of subordinates, but the reference to subordinates as used by the eleven managers is more concrete than mere observation. The data sources from subordinates include reports, discussions, and formal and informal meetings.

The majority of the respondents (seven out of twelve managers) identified superiors as a source of awareness about problems. This viewpoint was expressed by one manager who stated, "Line organization takes care of problems through appropriate channels." In spite of this strong statement, one reason for the fact that more managers become aware of problems through subordinates and observation than through their superiors may be that the superiors are too far removed by position and location to be the paramount source of information. Another possible reason for the less than paramount role of the superior as a source for awareness of problems is

the high level of technical expertise held by two middle managers, neither of whom cited their superiors as a source of problem awareness. Another speculation on this point relates to the possibility of pride in knowing one's own department. Although four managers reflected this viewpoint, one manager summed it up by stating, "I had better know the problems in my department without waiting for someone else to tell me about them."

In spite of the recent emphasis on computer usage in business, only five of the twelve managers cited computer printouts as indicators of problems. One of these five made a strong statement that computer printouts are the most important source of problem awareness, but the majority of managers sampled did not specify this view.

In general the awareness of a problem came from the sources within the department, excluding superiors. In three instances, however, specific mention was made of persons outside the department. There was no consistency in the references made in that one manager referred to employees outside of his department, one referred to peers in other departments, and the third manager referred to clients.

To show more about the range of responses of the managers, in addition to the above data, one manager stated that he relies upon "gut feelings" as a source of problem awareness and another stated that "a lack of results" is a problem

indicator. Ironically, the manager who referred to gut feelings spoke at length about efficiency reports resulting from computer printouts. The comment dealing with lack of results is so general, but it suggests goal achievement as perhaps the overriding concern of middle managers.

Question 2 - What are the kinds of decisions with which you are concerned?

The responses to the above question in some measure validate the selection of the sample population. As stated in Chapter I, (page 2) the decisions to be studied are the non-programmed type. In answering Question 2, every manager interviewed specified these types of decisions as his area of concern. Every manager cited personnel decisions as a major responsibility. The personnel factors ran the gamut from selection, employment, assignment, evaluation, remuneration, promotion, and dismissal. When questioned about the authority to make decisions on these concerns, eleven of the twelve managers interviewed stated that they had the final authority for all personnel decisions in their departments. The one who did not have the final authority, did have the responsibility for making recommendations which he stated that his superior supported in every instance.

Many of the responses to Question 2 dealt with areas of technical expertise. Due to the diversity in types of managers interviewed, the answers dealing with expertise were

varied. Examples included pricing, legal questions, advertising, building construction, and building maintenance.

All of the managers interviewed had budgetary decisionmaking responsibilities. The budgetary decisions for which they are responsible range from project evaluation to decisions on expanding services of the department. The crucial concern in every instance was cost effectiveness. One manager summarized this type of decision-making responsibility by referring to his decision making on "allocation of resources to accomplish goals."

In spite of the unanimous reference to personnel decisions as a major area of concern, analysis of the responses indicated that the focus in this area is on specific factors. Genuine concern for the employee as a person was voiced but the emphasis was upon his production and efficiency as measured by cost effectiveness.

Question 3 - With whom do you discuss perceived problems?

Of the twelve managers interviewed, eleven stated that they discuss perceived problems with subordinates. This total reflects a consistent pattern among the managers who stated a major source of problem awareness is subordinates. The manager who did not cite subordinates as a group to discuss perceived problems stated that , "I discuss problems with no one. The computer readout tells me my responsibility. I must produce X amount of dollars." This same manager

did specify that he becomes aware of problems through subordinates. He seems to be willing to listen to subordinates but by his own admission he does not discuss problems with them. This example of an apparent one-way communication may minimize the opportunity for this manager to learn and to share ideas about problems.

Among the twelve managers, nine stated that they discuss perceived problems with their superiors. In relationship to Question 1 (seven of twelve managers become aware of problems through superiors) there are some interesting comparisons. One manager who becomes aware of problems through superiors does not discuss the problem with them. Three managers who do not become aware of problems from their superiors do discuss the problems with them. No apparent reasons for these discrepancies emerged during the interview. Nevertheless, these discrepancies do suggest that there may be confusion concerning communications within the hierarchy as well as confusion concerning the importance of line and staff. Because the majority of responses in relationship to Questions 1 and 3 are consistent, the discrepancies noted may be minor.

Other responses to Question 3 included discussions with peers, friends, and with the individual who has the specific problem. During the interviews, the discussions about these types of contacts included many comments from the managers dealing with human relations. There seemed to be a genuine

concern for the worker as a person. Moreover, there was an expressed desire to solve the problem rather than dismiss the person from the department. One manager stated, "I try to take the burden of blame off the employee by focusing on the problem and not on the fault."

One manager stated that the nature of the problem determines whether or with whom he discusses perceived problems. This manager said, "Sometimes there is no solution to a problem so why discuss it."

Five of the twelve managers indicated that the nature of the problem would determine whether it would be referred to another department for solution. Among the departments named were their legal department and their personnel department. The latter was named four times.

Step One - Summary Comments

The essence of Step One in the decision-making process is the identification of a problem and the gathering of data relating to it. All of the managers interviewed recognized the need to be aware of what subordinates and superiors identify as problems. The majority of the middle managers, however, rely more on the subordinate as a source of problem awareness. A possible explanation for this reliance is the contacts with the subordinates which is more frequent, according to the interview, than contacts with superiors. Observation is a major source of problem awareness according

to the managers interviewed. This means of awareness places responsibility on the managers themselves. They must trust their observations or else they are wasting time. The managers seem to trust their judgments. Throughout the interviews they stated that few problems had to be solved by their superiors because of the confidence which their superiors placed in them.

Although there is a range of concerns about which the managers make decisions, much of the impact of their decisions is in the area of personnel. The significant authority held by these middle managers over personnel can be considered as a narrowing of the range of their decisions. For example, as stated repeatedly during the interviews, the ultimate question is profit or loss and the people employed are factors in that final question.

Despite the coldness of the bottom line of profit and loss, several of the managers interviewed made a clear expression of their concern for the human element of the employee. With the authority to make final decisions about personnel matters, one need not include the personal touch. However, this personal touch was expressed as a factor in the discussions of problems. Thus, although Step One is part of a rational decision-making process and despite the fact that the middle managers interviewed are deeply involved with profit or loss, the diagnosis of problems is influenced by the human element.

Step Two - Discovering Alternative Solutions

Question 4 - How do you narrow down the scope of a problem once you identify it?

In general, the managers interviewed did not indicate a step-by-step systematized approach to narrowing the scope of a problem. Most of the managers (eight out of twelve managers) relied upon their experience, their conversations with people, and, as one manager stated, he relies upon a "subconscious intellectual process." This manager stated that through this process which is in his brain subconsciously, the narrowing of the scope of a problem merely emerges. Although this explanation is vague, the manager expressed great confidence in using this process as measured by his success in applying it.

A total of four of the managers stated that they narrow the scope of a problem by searching out facts. The efforts to get the facts varied from conversations with individuals involved to a searching of records to a referral to another department. One manager stated that once he acquires the facts, he avoids any personal involvement in settling the problem. This manager preferred to delegate the handling of a problem to the appropriate supervisor.

Another manager stated that he attempts to narrow the scope of a problem in terms of the department in which it belongs. This manager refers to the hierarchical structure of the organization and attempts to place problems in the

appropriate level as a means of narrowing the scope of the problem. For this approach to be successful a manager must have a clear understanding of the hierarchy in an organization, must be willing to work with this hierarchy, and must have support from his superiors. If any of these factors are missing, the mere placement of a problem into one or another department is more shuffling than narrowing.

One manager merely stated that he narrows down a problem by deciding upon various alternatives. He did not elaborate upon this viewpoint except to state that he tries to weigh the pros and cons.

One response to the question which was different from all others was the presumption of one manager that all problems come from a change. He referred to this premise as a "causal change." This manager did not suggest that he would try to analyze the causes behind changes in company policy. Instead, he explained that an analysis of the impact of a company change on personnel would help him to narrow the scope of a problem. Whether this approach focuses on symptoms rather than actual causes is debatable, but the concept is interesting and is laden with implications. For example, what would be done if a policy change were profitable but unpopular among the workers? What authority does the manager have to minimize the effects of unpopular changes? If change causes a problem, what are the implications for progress? How is the impact of the change assessed?

Question 5 - What are some typical strategies utilized when you hear about a problem?

A wide range of responses was obtained in answer to Question 5. Many of the answers were not actual strategies but focused on gathering facts and then dealing with the problem. The latter reference did not lead to much variation in specifying strategies. Even when strategies were stated, few of them indicated creativity. The managers who specified strategies seem to focus on past practices and company policy as major approaches. Examples of these strategies are, "Go back to previous employer for information," "Send a policy memorandum," and "Check with a supervisor to see whether he can handle the problem."

Two of the managers stated, that they react to "gut feelings." These managers did what they thought best based on experience, knowledge of company policies, and related concerns.

Of the strategies stated the following are typical: 1) use a direct approach, 2) use a one-to-one approach in an informal social environment, 3) make decisions quickly, 4) use the no-fault finding approach (diffuse fault; don't intend on hanging someone publicly), 5) be consistent, 6) give an ultimatum, 7) set up parameters to give workers an escape hatch, and 8) consult with the person who previously held the managerial position. The above strategies do not reflect Machiavellian approaches. The approaches seem to be

straightforward and devoid of cunning. Perhaps there is some manipulation involved in the straightforward strategies specified, but none is apparent. The reason for the absence of examples of clever, manipulative approaches cannot be stated with certainty. Perhaps the managers did not wish to admit that they use these approaches or perhaps they are truly not manipulative.

Question 6 - What are your data gathering sources (in-house and out-of-house)?

The use of computers (six of the twelve middle managers) and the use of company library materials (three of the twelve middle managers) are the two main sources of data gathering for decision making. A few managers (four out of twelve) consult with experts in the field for data gathering purposes. There is little variation in response to Question 6. One manager stated that there is "no outside influence or interference in data gathering." Perhaps this manager considered outside sources as interferences and, therefore, did not comment on the values of consultants and other experts.

Implicit in the lack of major involvement with outside sources is the assurance of all of the managers interviewed that their experiences would provide them with the data needed without seeking assistance from others.

Four managers stated that they used people within the company as a data gathering source. One manager stated that

he seeks information from "superiors who sway the opinion of others."

Another manager relies on personal on-site observation to gather data about problems. His focus is on job performance, and so on-site observations would be appropriate.

In addition to computer printouts, one manager uses a performance index incorporated into a Management By Objectives (MBO) approach. This manager consistently gave responses which were systematic, organized, and factual.

Except for the three managers who stated that they use company libraries as data gathering sources, there is little evidence that research materials are used by the managers interviewed. Computer printouts may provide needed information in some measure, but research studies on relevant business issues were not mentioned. With the emphasis on personnel matters highlighted in the responses to Question 2, it is interesting that no manager interviewed referred to research studies on personnel, morale, or motivation. The application of the research on these topics could give the managers clues to data gathering for purposes of decision making.

Step Two - Summary Comments

Not much insight was provided by the managers in relationship to Step Two. They spoke of alternative solutions but did not specify many of them. The majority of middle managers interviewed seem to toe the company line and relied

upon factual information in their decision making. However, subjective elements did appear. References to gut feelings, to allowing employees to have an escape hatch, to informal discussions with employees and with peers reflect this subjective approach. The strategies stated were not unusual and were more direct than indirect. Research findings relevant to areas of concern were not mentioned by the middle managers except for computer printouts and reports on file in the company library. The latter two sources seemed to emphasize specific company related goals rather than human relations concerns.

Step Three - Analyzing and Comparing Alternatives

Question 7 - What are some factors considered in developing a solution?

When Question 7 was presented to the middle managers, they seemed to need some prodding in order to give a response. The factors listed in the Interview Guide under Question 7 were not made available to the interviewees, but several of the factors were presented as examples. In responding to the question, each of these suggested factors was repeated by the majority of the middle managers. There were other factors cited, but the most frequently mentioned ones were those provided as prods. The usual reaction, when, for example, legal factors were suggested during the interview was, "Oh yes. Of course, legal factors are important."

In eight instances the managers mentioned consequences as factors in developing a solution. A typical concern related to consequences was voiced by one manager who said, "You have to be concerned about whom the decision will affect." Related to this point, four managers considered the impact of a decision on the well being of an employee and one of these four considered the impact of the decision on the employee's family. One manager stated his concern for the political consequences of any decision. This manager stated these political concerns were not the highest priority but any decision would have to be weighed in terms of some political considerations within the organization.

Only two managers singled out company policy as factors to consider. One of these two managers placed policy as a low priority. The previous references to hierarchy and working with superiors and reading company manuals would seem to indicate that company policy would be mentioned more frequently. However, three managers who did not mention company policy did seem to recognize the importance of company goals and "best interests."

One of the managers stressed the importance of communication in reference to Question 7. His interpretation of communication was to keep employees well informed through every phase of the decision-making process. This manager insisted upon the importance of keeping channels of communication open so that all involved with the decision would be

aware of relevant information. When some probing on this response was attempted, there was no indication that the time involvement for the success of this open communication factor was analyzed carefully. When asked about the results of the time investment necessary for open communications, the answer given was a vague, "It is good for people to be involved." The concrete nature of this response is obviously lacking.

Question 8 - What authority restrictions do you have?

The responses to this question were very succinct. The most frequently mentioned restriction was financial (five of the twelve managers). Only three managers mentioned company policy. One of these three plus one other middle manager stated that they have no authority restrictions in their job, and a third manager stated that he develops his own restrictions in terms of cost effectiveness. Two managers referred to legal restrictions, one citing Affirmative Action and the other citing notification prior to firing personnel. One manager dismissed the whole question with an answer, "My restrictions are common sense dictated."

Although the array of answers is diverse, there is a pattern which indicates that there are few authority restrictions identified by the middle managers. One of the managers who mentioned legal factors is head of the law department within the company. Since legal concerns are generally acknowledged to be important in the world of business, it is

interesting that only two managers identified this authority restriction. Whether authority is as clear and as strong as the responses indicated could not be determined during the interview but the assumptions by the managers that they do have adequate authority are clear. Since middle managers are in fact not in the upper echelon of an organization, it is evident that they have superiors who can overrule them. Therefore, their assumption of their strong authority is questionable.

Question 9 - How do policies and/or rules hinder or aid your decision making?

The responses to this question were grouped into two categories: aids and hindrances. It was anticipated that a variety of responses would be given under both categories. There was some variety under hindrances but eleven of the twelve middle managers gave the same type of comment as an aid. These managers stated that the policies serve as guidelines, clarifications, and time savers. One of these managers said that with a policy there is no need to make a decision. One manager stated that policies do not aid at all because they are vague. A positive aspect of the comments, except for the latter, is that policies allow employees at all levels to know the position of the company on important matters. Another manager credits company policies for the success of the company in that they provide uniformity of

direction. The similarity of responses is an indication of high level consensus but does not lend itself to much analysis.

The responses to hindrances were varied. The majority of criticisms of policies centered on the detail work involved in implementing the policies. For example, one manager stated that the policy on chain of command slows down progress. Another one stated, "Policies take away individual creativity." Another stated that, "There are too many checks and balances."

In a different vein, one manager criticized the impact of the policies. He said that policies, "are meant for clerical staff, not professional people."

It was anticipated that the responses to this question would lead to important analyses. In spite of some variation in the responses to hindrances, there is a great deal of similarity in what the managers stated as aids and hindrances. Therefore, the expectation for analysis was premature.

Question 10 - What is your support base?

In general, the middle managers recognized superiors as their support base (eight of the twelve managers). For the majority of these eight managers, there were no additional comments. Whether they believe that the mere mention of superiors was sufficient to explain a support base could not

be determined from the interview, but the fact is that there was very little elaboration except for an acknowledgement of support from the hierarchy. Three of those who mentioned superiors as their support base also mentioned subordinates as their support base. Perhaps this reference was an attempt to cover all bases, but probing did not reveal interpretations.

One manager who emphasized that the "decision-making process is a collective one," stated that he does not need a support base because, "Everyone is involved and that is a support base." This manager did not seem to mind the fact that he contradicted himself. Two of the managers suggested the concept of comaraderie by stating that their support base comes from peers.

One response which is different from the rest came from one manager who stated that the data he collected from research served as his support base. He felt confident that his decisions, substantiated by facts, would be strong enough to avoid countermanding. This manager may be overlooking other factors which may lead to a rejection of his decision regardless of his research. Such factors include politics, expediency, ethics, and consequences.

Although one manager stated that he had no support base and did not comment further on this point, he seemed to stand

alone in this viewpoint. The message conveyed by the managers in general is that they received strong support from their superiors. These managers were confident that their superiors would back them in the decisions they made.

Question 11 - Can you give me any instances where you used creative brainstorming in decision making?

In general the answers to the use of creative brainstorming were not creative. Two of the managers stated that brainstorming was not used in their meetings. Among those who stated that brainstorming was used (ten of the twelve managers) all but one described brainstorming in its typical aspect. The one exception, through creative brainstorming with his department, came up with the idea of a VIP day for all employees. During this day the employees were given special treatment (refreshments, leisure time, and music). The purpose of this special treatment was to improve the morale of the employees as a necessary ingredient in involving them in a forthcoming company decision.

This latter application of brainstorming was the only one that had any semblance of creativity. The managers who used brainstorming considered this approach creative in itself and did not specify any unique applications of the results.

An interesting contradiction in the use of brainstorming in decision making can be noted. One manager maintained that

brainstorming is too time consuming and another manager stated that brainstorming is a time saver. Although the interview data did not substantiate a reason for the latter view, possibly the manager meant that the time investment in brainstorming would shorten the time for decision making once the brainstorming had taken place. A further implication is that people are the best resources for decision making and brainstorming certainly involves people in a free and open exchange of ideas.

Step Three - Summary Comments

The responses to the questions relating to Step Three did not shed much light on the use of alternatives. Factors such as time, money, and legality were identified as considerations in developing a solution. The impact of consequences was recognized. The advantage of company policies as guidelines was also recognized. In terms of support base the managers identified their superiors and in terms of authority restrictions the managers indicated that they have sufficient authority backed up by their superiors to make decisions. There were few indications that the hindrances resulting from policies could be handled creatively. The managers did not refer to alternatives as means to work around the restrictions of policy hierarchy and related restraints.

The reactions to the question on brainstorming did not reveal an emphasis on alternatives. These responses are

interesting in that brainstorming is of value to the degree that it allows alternatives to emerge. There may be a group interaction advantage to brainstorming which was not mentioned by any of the respondents, but the stated results of brainstorming sessions were in themselves not creative and not varied.

Perhaps the nature of the questions used in the Interview Guide were not sufficiently precise to stress the use of alternatives. The interview sessions were open ended and no one appeared to be stifled. Words such as "alternatives," "options," and "varied approaches" were discussed during the interview. Only when the analysis of the data was attempted was it discovered that the responses did not reveal many alternatives. If the problem is in the Interview Guide or the interview process, this realization is after the fact and it may represent a limitation of this study in reference to Step Three. If the problem is not in the instrument or in the process, the type of responses provided do not demonstrate much recognition of alternatives and certainly not much use of them.

Step Four - Selecting a Plan to Follow

Question 12 - How does research help you in decision making?

Reliance upon research is a necessary component of decision making according to eleven of the twelve middle managers. The one exception stated that he does not rely

upon research and he never uses the library or textbooks to gain information about decisions. This same manager stated that the research he needs (contradiction not intended) is in the files and procedure manuals of the company.

Those managers who use research regularly gave the usual reasons for its use. The most colorful comment on the value of research is, "Without research you're shooting from the hip." Another manager stated that research stimulates creative thoughts which are important in decision making. Three of the managers use research from a variety of sources as well as initiate research within their own departments. The information generated (demographic data about employees and clients, and production trends) from this research is used to make future decisions particularly about personnel and about product concerns.

Among the sources mentioned from which research is derived are journals, newsletters, outside consultants, company manuals, library, and computer reports.

In responding to the use of research in decision making, none of the managers mentioned research reports dealing with decision making itself. The managers seem to consider research to be reports on products, costs, and staff productivity according to variables of sex, education, and years of service. As noted previously, there was no stated recognition of applicable research on morale, organizational development, human needs, or organizational structure.

Question 13 - Do you encourage participatory decision making?

Every manager stated that he encourages participatory decision making. When the responses were probed, it became apparent in every case that the managers have an inaccurate view of the participatory aspect of decision making. The managers spoke about the involvement of some staff members in decision making but stressed the point that the final decision belongs to the managers. Thus, the managers were unanimous in their willingness to involve staff members to discuss some factors relating to a decision, but the decision itelf was regarded as the prerogative of the manager. For example, one manager answered the question by saying, "Absolutely. But I have the final decision."

This authoritarian concept of participatory decision making suggests that the managers may not know the essence of staff participation in decision making. Nine of the managers are willing to listen to employees "to an extent," but they do not seem to be willing to yield to a staff judgment. To water down the authoritative aspect of the foregoing comments, seven of the nine managers said they would yield to the staff decision if the staff members could convince the managers of the value of the position taken. A quote which indicates the condescending attitude of some of the managers follows: "Participatory decision making hasn't been beneficial but gives everyone team spirit. It is our company push for the 80's."

One manager has an interesting approach to participatory decision making. He solicits memos from his staff in which "suggestions, revisions, and ideas" are communicated. This manager reads these memos in the privacy of his office and he decides what to do with them. This manager boasted about the advantages of staff involvement in this approach.

Step Four - Summary Comments

In general the middle managers interviewed used their own judgment in selecting a plan to follow among alternatives identified. As previously noted the middle managers did not identify many alternatives. Where alternatives were recognized, little use was made of research and of participatory decision making. The type of research used was not much more than facts and figures concerning company oriented problems. The broader scope of research was not recognized or at least not identified. An example of the narrow scope of the research used is the inaccurate view of the meaning of participatory decision making. Whether or not participatory decision making is a good idea was not the intent of the question during the interview. However, this concept is very popular in the literature of management. The inaccurate interpretation of this concept may not be due to a lack of research awareness but it can be related to that possibility.

Another way of explaining the comments made about participatory decision making is that the managers may be aware of its meaning and may be aware of research studies, but they prefer not to apply the concept in practice. The question comes to mind as to whether research is applicable to real life situations. No matter what the answer, the fact is that the managers are not applying participatory decision making as it is intended. Perhaps by reading an authority such as Rensis Likert the managers could learn more about this concept.

Step Five Evaluation

Question 14 - How do you evaluate decisions made?

In the majority of instances (nine of the twelve managers) the evaluation of decisions made was in terms of the effects of individual decisions rather than in terms of collective decisions relating to company goals. References to formal evaluation were made by four of the twelve managers and in each instance the formal evaluation was on employee factors such as attendance, performance, and salary. In a sense, every decision has some relationship to the effectiveness of the company and in that sense company goals were critical. In the responses given, however, the focus was on the effects of a shorter range perspective. Reliance on computer printouts seemed to be the most conventional evaluation feedback.

A combination of informal and formal means typify the answers given. The important element in the evaluations of decisions was measurable results, particularly in terms of In general, the evaluation was not precise cost factors. because the decisions seem to be based on a variety of factors which are not organized. There was no unifying concept within the responses of any one manager in relationship to the evaluation of decisions except in measurable aspects. There was no reference to any process for the evaluation of No reference was made to how evaluative prothe decisions. cedures were applied. The managers said that they did look at job performance, printouts, and they did converse with employees. They did not say, however, how they evaluated results.

Only two managers mentioned employee morale factors. One of these managers stated that a means of evaluating a decision made is "the excitement level of the personnel." Similarly, another manager asked the question, "Is employee reaction more positive?" Neither of these managers stated how evaluation of these factors would be made. The fact that only two managers mentioned morale factors does not mean that the other ten did not recognize the importance of morale as a means of evaluating decisions. However, since only two managers mentioned morale factors, it is clear that regardless of what the other ten managers were thinking, they did not place enough importance on these factors to mention them.

Question 15 - Is there a recourse or grievance opportunity for those affected by your decision?

In eight of the twelve responses, there was reference to a formal system of recourse or dealing with employee grievances. The responses did not deal with the existence of unions, and so there is no union implication intended by the responses.

In six instances the managers referred to an open door policy as a means of recourse. The open door policy was interpreted by the managers to mean that a person affected by a decision could meet with the manager to discuss the matter without concern for a formal system. In two instances, however, the open door policy was mentioned as well as a formal system.

Several managers (five of the twelve) encourage those who seek recourse to contact the personnel department. In these five companies there are procedures under the jurisdiction of the personnel department for an employee to follow. These procedures range from a simple memo sent to all parties involved to an ombudsman approach. In the latter example, there is an internal company person who acts as an impartial third party who deals with people who feel they have been treated unfairly.

Another recourse mentioned by five of the twelve managers was to "contact the boss." This contact could be in writing or in personal appearance. One manager stated that,

"Every employee has the right to go up the chain of command." No repercussions were stated explicitly in terms of this comment. Attempts to probe this matter did not lead to any further information. However, another manager stated that his advice to employees is, "Tell me," because he believes that dissension is created when an employee goes over his head.

Question 16 - Do you consider yourelf a good decision maker?

All twelve managers interviewed considered themselves to be good decision makers. The reasons for this self assessment are reflected in the following comments. "Most decisions I make have proven to be right." "My track record is the indicator." "Where I am is an indication that I'm a good decision maker."

A very interesting comment is, "I could make decisions on less information, instead of overdoing it." By this statement the manager means that he is in the habit of spending too much time gathering superfluous information.

Two of the managers included affective elements in their responses to the question. One said, "I am cognizant of how the decisions affect other people." The other said, "I have a decent feeling about the decisions I make." The most sophisticated response came from a manager who said, "I have a system I use to make decisions. I apply it and immediately I increase the likelihood of making a better decision."

The confidence expressed by all twelve managers is a positive ingredient for any company. In terms of affective factors the positive evaluations are good in themselves. It is obvious that there should be no morale problem among these managers in terms of this one dimension of their job. No one mentioned the pressure involved in facing the consequences of a decision. In spite of the recent emphasis in our study on stress and coping, no one referred to these matters. The fact is that the managers rate themselves as good decision makers.

Step Five - Summary Comments

Although the respondents specified end results as a major factor in evaluating the decisions they make, a subjective element emerged. In fact, this subjective element allowed the managers to rate themselves as good decision makers without exception. The subjective aspect which emerged is also reflected in the apparent lack of awareness by the manager of the impact of their decisions. The managers seemed to focus on the evaluation of company goals which may have been achieved regardless of specific decisions which they made. Little reference was made to morale factors in the comments about evaluation of decisions. Comments dealing with decisions made did not differentiate between crisis decisions and other decisions which require judgments to be

made. This lack of differentiation was not due to confusion of the two but rather to a lack of mentioning them.

The opportunities for recourse within a company depend upon company structures, whether they be formal or informal. The only discernible pattern is that where formal procedures exist, these formal procedures are believed by the managers to be clear to all within the company. The many informal grievance procedures are surprising in view of the major legal concerns which most companies face. Informal grievance procedures may lead to legal confusion because they lack the preciseness of formal grievance procedures. No explanation for these informal procedures was given.

Question 17 - Can you explain your rationale for decision making?

As a means of pulling together the sixteen questions used in the Interview Guide and as a means of securing data on the approach of each manager to rational decision making, Question 17 was asked.

In general, the rationales provided contain similar elements to the five steps in the model identified in Chapter I and explained in Chapter III. The similarity between the steps used as a structure in this dissertation and each rationale provided by the managers (designated as Ml through M12) can be demonstrated by the following:

| Ml | 1. | Find out facts (review files, talk to people, |
|----|----------------------------|--|
| | 3. 4. | observe). See if situation can be changed. Consider alternatives. Prioritize. Consequences. |
| M2 | 2. 3. 4. | Get information - what are the facts. Analyze. How has situation resulted in the past. How it affects others - consequences. Occasionally consider alternatives (not always). Make a decision. |
| М3 | 1. 2. 3. 4. 5. | Get input from people involved. Do additional investigation. Analyze the facts. Verify facts germane to making decision. Make decision based upon verifiable facts. Know- ing corporate policies. Based on experience. Follow-up to determine results. |
| М4 | 4. 5. 6. 7. 8. | <pre>Look at criteria set up for success or failure of project. Set criteria for end product. Gather information - library. See if it fits criteria. Decision against established set of criteria. Challenge it - use judgment and experience for rationale. Look up alternatives throughout (positive and negative). Solve the problem. Ultimately come across with decision. Evaluation.</pre> |
| Μ5 | | <pre>Get facts. Look at options. Weight long-term effect of decision as well as short-term resolution. Have people involved collectively support deci- sion. (no fault) Look at options. Implement as soon as possible. Whole process is evaluative process.</pre> |
| M6 | 1. 2. | Self-confidence - doesn't have to be a rationale. Make list of advantages and disadvantages after collecting facts. |

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- Μ7 Problem - Concern - Need
 - Get facts. 1.
 - Consult with experience individual, experts 2. in the field.
 - 3. Make decision.
- M8 1. Get information.
 - Look at alternatives. 2.
 - 3. Consider consequences.
 - 4. Make decisions.

M9 1. Decide scope of problem. How important is it. Is one of any number of decisions okay. 2. Get information.

- Isolate alternatives. 3.
- 4. Look at consequences.
- M10 1. Look at company goals.
 - What is best way to achieve it. 2.
 - Get best resources. 3.
 - Make decision. 4.
- Find all information available talk to people. M11 1. Make decision. 2. Follow-up if necessary. 3.

M12 1. Identify problem - state what problem is. 2. Get the facts.

- Establish inner relationship between all of 3. data – what facts are related (analysis). Identify probable causes. 4.
- Prioritize. 5:
- 6. Select problem cause.
- 7. Eliminate cause, correct, change and approve decision.
- 8. Make decision objectives (desired and required objectives).
- 9. Draft alternatives.
- Measure alternatives to required objectives.
- ll. Do risk index if I choose what could go wrong.
- 12. Choose decision that meets all required objective and high number of desired objectives. (Kepner and Trago - Rationale Manager)

Each manager was able to provide a well organized rationale for decision making. The information provided for the rationale was listed in a step-by-step fashion, but the enumeration of each step was provided after the data were recorded. This enumeration was for purpose of clarification of the number of steps and was not a substantiation for the rationale stated.

The range of the steps in the rationales provided varied from two steps to twelve steps, but there were common elements in all of these rationales. The rationale with the least amount of clarity was provided by M-6. This manager did not see the need for an elaborate rationale and that in itself served as his structure.

The most elaborate response came from M-12 who stated that he had had a great deal of inservice in decision making. This manager stated a rationale which appeared to be memorized. Without hesitation he listed twelve steps and identified the model which served as his source.

In eight instances the managers included a direct or indirect reference to alternatives. This reference is interesting because in the preceding sections on the analysis of their responses, it was noted that few managers made reference to alternatives. This inconsistency obviously can have an impact upon the company served by these managers. These managers seem to recognize the importance of alternatives but do not seem to identify them as aspects of their decision making except in answer to Question 17.

Most of the specifics contained in the listing of each rationale indicated by the managers have been treated in the chapter. The major discrepancy between the steps in the rationale provided by each manager and in the previous comments is in the area of alternatives.

Additional Information

Question 18 - Are there any additional comments you would like to make with regard to decision making?

This open ended question was offered to allow the managers to give further views on the process of decision mak-Four of the managers did not offer any additional coming. ments and no attempt was made to elicit comments from them. Of those who did make comments three managers stated that they enjoy making decisions. The remaining five did not mention the words "fun" and "enjoyable" but they did state that they regard decision making as rewarding for them. One manager stated that, "For the effective manager the number of problems that occur should be minimal." One of the managers who specified the enjoyable aspect of decision making stated that this process, "is enjoyable when you have authority and power." As pointed out in the chapter, the results of the interview show clearly that the managers interviewed regard their authority and power to be sufficient to make decisions.

An interesting comment from one manager relates to the concept of stress which was notably absent as a major

consideration throughout the interviews. This manager said, "Anxiety stems from a lack of making decisions. Make them and get them off your mind."

The comments made in reference to Question 18 did not provide much variation or additional viewpoints in reference to the data collected previously. The responses cited above are merely examples of comments made by the managers. They are not analyzed in depth in this section of the dissertation because their significance is minimal and the points to which they relate have been analyzed throughout this dissertation.

Responses from High School Principals

Step One - Diagnosis Question 1 - How do you become aware that a problem exists?

There is no apparent systematic way in which the principals interviewed become aware of a problem. Two possible exceptions to this statement are indicated by one principal who stated that there is a clear line organization in his school and one who said that, "a good line" of communication exists in his school. The suggestion that a well organized line and staff structure enables the principal to become aware of problems is an obvious inference from the first comment. The "good line" of communication expressed in the second instance, although not defined specifically, suggests that communication channels are less than haphazard. If,

however, the "good line" merely means an open door policy, the communications may be satisfactory but a question can be raised concerning a systematic approach to these communications. With an open door policy, how can the principal control his time, his priorities, or his mental processes? A more systematic approach such as setting appointments, setting aside blocks of time for interruptions, and blocks of time for privacy can keep the door open but can also provide an organized and possibly more efficient "good line."

The principals cited many sources which made them aware of problems. There were no surprises in the sources indicated, although only one principal mentioned the secretary and only one principal mentioned the custodial staff as those who help him become aware of problems. The role of the secretary is so crucial in schools and the problems in maintenance are so easily noticed by the school patrons that mention of these sources by only two principals is difficult to understand.

Other staff members were mentioned by the majority of the principals in response to Question 1. In nine of the twelve instances the principals specified that their subordinates (assistant principals, department chairmen) helped them to become aware of problems. Also, in ten of twelve instances teachers were mentioned as sources of problem

awareness. Although these references to subordinates and to staff are frequent it is surprising that not all twelve principals referred to both groups. It is difficult to envision a school where the principal does not learn about problems from subordinates and staff.

In a similar context it is also surprising that only three principals became aware of problems through the central office staff. It would be expected that the principals are in closer contact with their central office administration. This close contact is essential for formal and informal communications as well as for the smooth operation of the hierarchy. If only three principals in this study are in sufficiently close contact with the central office so that problems become known through this source, the majority of the principals seem to be in need of developing closer contacts with their central office administration.

Seven of the twelve principals interviewed referred to students as a source of problem awareness. These seven principals undoubtedly learned much from their contacts with students. Students can offer many clues and insights about problems affecting schools. Apparently five of the twelve principals do not regard this valuable source as important enough to mention.

As a supplement to the sources of problem awareness from subordinates, from central office administration, and from

students, eight of the twelve principals mentioned observation in answer to Question 1. The observations were formal and informal, but both approaches had subjective elements. The subjective aspects of the observations allowed the principals to depend heavily on their own insights as a source of becoming aware of problems.

Although the specific comments overlap and several were mentioned by more than one respondent, only one principal used all of the above mentioned sources for problem awareness but eleven of the principals overlooked at least one of these sources.

A total of nine principals acknowledged parents and community as sources for problem awareness. The one principal who mentioned the "good line" of communication is among the total, indicating some measure of practicing what one preaches. One principal stated that most of what parents communicate are rumors but he is willing to investigate them.

In spite of the fact that there was no unanimous agreement among the twelve principals interviewed on any one source for problem awareness, the comments during the interview suggested that most reliance in this matter is placed upon the assistant principals. The responsibility for the area of authority delegated to an assistant principal requires mutual trust and good communication between the principal and his assistants. This view was expressed in

different ways, but it was stated clearly by one principal who said, "Assistant principals have responsibility for daily decisions. They must keep in contact with me."

Even though ten of twelve principals stated that teachers helped them to become aware of problems, a typical attitude was expressed by one principal who said, "Teachers do not have a broad scope. They are aware of problems in their area only." Another principal said, "Teachers usually make me aware only of curricular problems in their department." Even if principals are correct in their view that the teachers can inform them of problems in a limited way, no principal seemed to recognize that all of these limited data when put together can give him a global picture of the school. The principal who is unable to piece together the separate bits of information which form the whole will be missing out on a valuable source of information.

Question 2 - What are the kinds of decisions with which you were concerned?

In answer to Question 2, eleven of twelve principals mentioned personnel as a major area for decision making. In responding to this category, nine of the twelve principals interviewed referred to the hiring and firing aspect of staff members. All nine principals stated clearly that their responsibility in these concerns is limited by law but that they are actively involved in making recommendations about

hiring and firing. All nine added that their recommendations are almost always approved by the Board of Education. Although evaluation of staff is implicit in personnel decisions only two principals specifically mentioned evaluation as an area in which they make decisions.

Another major area of concern (eight out of twelve principals interviewed) is curriculum. The decisions involved with this area range from leaving "the matter to experts" to the assignment of an assistant principal to be in charge of curriculum, including program development. In those schools where an assistant principal was given responsibility for curriculum matters, the principal does not have an active role in these concerns except when staff or budget matters require decisions. Thus, the authority of the principals in the area of curriculum is maintained at least indirectly.

The responses from the principals suggest that they consider themselves responsible for the entire day-to-day operation of the school building. Specifically, however, only six principals specified "day-to-day" operations as an area in which they must make decisions. Relative to these types of decisions, one principal stated that he makes "impromptu decisions." He referred to "crisis management" in reference to bomb threats, maintenance emergencies, and transportation problems. Although this principal commented on the crisis nature of these types of decisions, he said

that his plan for decision making gives his decisions "a measure of consistency."

A total of six of the principals interviewed stated that their concern is with budgetary decisions. Probing revealed that they are responsible for the allocation of funds which have been budgeted in the central office and made available to their schools. None of these principals has a major role in district budget development. On the building level, however, all six of the principals who referred to budget decisions maintained that their decisions about allocations are not overruled by the central office staff. Thus, although the principals have sufficient authority in matters of budget, they do know their limits.

Decisions dealing with building facilities were mentioned by three of the twelve principals interviewed. One of these principals elaborated by stating that he made a decision to install new floor tiles in a corridor. He sought and received approval from the school board for his decision but he was overruled in his choice of the color of the floor There was no discussion about other decisions regardtiles. ing building facilities made by this principal. The one example he gave was not only a one-time decision but also the decision he did make was modified by the board. The authority of this principal to make decisions about building usage is questionable by virtue of his own example. The second

principal who referred to building facilities as an area of concern stated that he made decisions regarding the use of the building by community groups after school hours. This principal did not mention anything about board policy concerning building usage, even though this type of policy is found frequently in school board manuals. The third principal in this category did not give specifics regarding his concerns about building facilities. He did say that he considers himself responsible for the facilities but his comments did not lend themselves to analysis.

Three of the twelve principals stated that decisions dealing with student behavior are made by them. One of these three referred specifically to suspension, a matter that legally involves the principal. It seems strange that because of the legal implications for principals in this matter, none of the other principals interviewed (eleven out of twelve) commented on this level of concern. The other two principals, however, did not clarify their relationship with the deans of discipline in their schools. Since these two principals have delegated the responsibility for student behavior to either an assistant principal or a dean of discipline the role of these two principals in the area of student behavior is not clear and may not be necessary if other administrators take over this responsibility.

Several specific areas of concern for decision making in addition to those above included conflict resolution (one of the twelve principals) and staff morale (one of the twelve principals) concerns. Perhaps the most unique response to Question 2 was made by the principal who said that "I am concerned with the improvement of the managerial style of my administrators." This principal spoke about inservice, the need for a strong team effort, and the need for constant self improvement. Answers to subsequent questions by this principal during the interview indicated that he is sincere and consistent in these beliefs.

Question 3 - With whom do you discuss perceived problems?

The majority of the principals (nine of the twelve principals) stated that they discuss perceived problems with subordinates. By subordinates they referred to assistant principals, department chairmen, and deans. (The use of the word <u>subordinates</u> is for purposes of categorization. The word was not used by the principals interviewed.) The popularity of this reference is consistent with the expressed views of all twelve principals interviewed who spoke of the values of a team effort. Of the two principals who did not name "team members" one stated that he consults with "key people on every issue" and another stated that "We operate in a team setting for decision making." Obviously the members of these teams include other administrators beside the

principal, and so all twelve principals interviewed, directly or indirectly, discuss perceived problems with their subordinates.

Few of the principals interviewed (four of the twelve principals) stated that they discuss perceived problems with superiors. One of these principals emphasized that he always discusses union matters with his superintendent and one specified personnel problems as the key issue which he discusses with his superintendent. The clear and repeated reference to the school building as the responsibility of the principal and his staff is reflected in the responses to Question 3. In spite of what appears to be a satisfactory arrangement for purposes of discussing perceived problems, if only four of twelve principals interviewed discuss problems with their superintendents or with central office staff, questions of communication, responsibility, and authority can be raised.

One possible answer to the questions raised can be found in the responses of four principals who stated that they discuss perceived problems with the people involved. One of these four principals is included among the four who stated that he discusses problems with the superintendent. Perhaps the other three who responded similarly meant to include the superintendent and his central office staff in their response to Question 3. If this supposition is correct, there is more indication that the principals discuss problems with their superintendents. If not, the questions raised remain.

One of the principals stated that he discusses matters with key people. This reference is similar to the reference to discussions with people involved in the problem. One principal referred to the community people and two principals referred to students as persons with whom they discuss perceived problems. Throughout these various references, the democratic approach to problem solving is implicit.

As an extension of the latter point, five of the principals interviewed named teachers as persons with whom they discuss problems. Although only five of the principals mentioned the teachers, several others (three of the twelve principals) made at least indirect references to their staff. One principal answered Question 3 with the following quote, "We have a group of professionals who can make decisions. I do not make major mistakes because I discuss controversial issues with the staff. Decisions have to be shared." Therefore, as in the reference to discussions with administrative subordinates, there is sufficient indication throughout the interviews that the principals discuss perceived problems with teachers in more than the five instances which were specified.

Step One - Summary Comments

Consistent throughout the responses to Step One is the focus of the principals on in-house matters. The majority of principals become aware that a problem exists through their

own observations. Their major area of concern for decision making is personnel. All of the principals interviewed discuss perceived problems with their administrative aides and most discuss problems with their teachers. In serious matters (union issues, student suspension, hiring and firing of staff) contacts are made with the superintendent of the school district. Except for these types of matters, the principals generally deal with problems by using resources within the school building, including their own judgments.

All of the principals interviewed indicate an awareness of a hierarchy in the building, with themselves at the top, but they are very much involved with a democratic approach to decision making. Their diagnosis of a problem in almost every instance includes contact with the building staff.

Although nine of the twelve principals stated that problem awareness comes from parents and other community sources, only one principal stated that he is concerned with decisions relating to the community and only one principal stated that he discusses problems with community people.

Step Two - Discovering Alternative Solutions

Question 4 - How do you narrow down the scope of a problem once you identify it?

The responses to Question 4 were uniform in several respects. All of the principals interviewed said that they try to gather the facts, ask questions, and try to analyze

the nature of the problem. Although these answers were similar, some of the additional comments made by the principals included differing views about their insights in narrowing the scope of a problem.

One principal said that he has a talented administrative staff and they should have the opportunity and must have the responsibility to narrow the scope of a problem. Another principal said that he tries to "solve problems at their lowest level possible." This principal believes that those involved with the problem should solve it and that only when solutions are not possible on lower levels in the hierarchy, does he become involved.

Another comment made by a principal with regard to narrowing the scope of a problem is to "look at it void of emotion." This principal spoke of the intellectual process of "isolating the variables" of a problem because he was very concerned about the effect of the problem on "various areas of the operation." These "various areas" were expanded by his comments during the interview to include the human element. A possible contradiction exists in this latter reference and the principal's attempt to remove emotion from narrowing the scope of the problem.

A somewhat different answer to Question 4 was provided by one principal who stated that he can narrow the scope of a problem because he "can anticipate problems well." His

advice is, "Try to become aware of a problem before it gets to you." This principal is convinced that a well organized hierarchy will serve as a filter in reference to problems. For this approach to work well, it is necessary that the hierarchy be well understood, the communication lines must be open, and that trust within the hierarchy is at a high level. In the absence of any of these factors a problem can be expanded rather than narrowed. The principal who gave the advice stated above seems to be aware of these concerns and he expressed his confidence in the approach.

Question 5 - What are some typical strategies utilized when you hear about a problem?

The principals interviewed seemed to talk around Question 5 prior to indicating specifics. They talked about gathering information, being direct, communicating effectively, involving others in decisions, and being democratic. Typical comments included, "be honest, yet firm and fair," "convince people to make a change," "use the democratic approach," "allow participatory decision making," and "use all the resources possible to get to the solution of a problem."

Focus on strategies was not apparent. During the interview the term "approach" was suggested as synonomous for strategy in order to get answers which were more germane to the question. Some responses did suggest a strategy of

sorts. For example, one principal stated that he attempts to "find out if the problem is really a problem." He elaborated by saying that by use of the direct approach he can prevent a minor irritation from developing into a problem. This principal communicates with his staff and he encourages open discussion as a preventative measure to avoid problem situations.

Another principal referred to communication with subordinates but his strategy was to define a problem as clearly as possible "without damaging the integrity or the privacy of individuals." This principal did not clarify how he protects the integrity of the individuals mentioned, but it can be assumed that he respects the confidence of others. In this way the principal's emphasis on open communications as a strategy can be maintained.

One principal who obviously believes in open communication said that when he hears about a problem he "prints it in the school bulletin to point it out." This principal did not seem to be aware of possible repercussions from the staff such as morale, embarrassment, calling attention to what may be a minor problem, and similar concerns.

One approach mentioned by a principal which could be developed into an interesting strategy is to spend time analyzing whether the problem needs resolution. The suggestion here is that some problems fade away due to time,

priority, changes of circumstances, and related factors. Rather than attack every problem with democratic involvement, participatory decision making, and anxiety, this principal made the point that some problems do not need resolution by the administrator. If this view can be accepted by principals, a major change in their time usage and in their job responsibilities could result. Consequences of the acceptance of this approach must be given careful consideration.

Question 6 - What are your data gathering sources? (In-house and out-of-house?)

Although only seven of twelve principals specifically mentioned people as a data gathering source, all of them implied that they gather data from people, primarily those in the school buildings. The contacts with people were classified as formal and informal. The latter approach included observation, conversation, and meetings. Only two principals mentioned research or articles as a data gathering source although two additional principals stated that they use the libraries for data.

A total of seven principals rely on computer printouts for data gathering. The data provided by computers were specified as attendance, grades, and financial information. With the emphasis on personnel matters cited as a major concern in reference to Question 2, it is difficult to see how

the computer printout information can be very helpful to the seven principals who use it. The data on attendance may be of some value to these principals, but there appears to be no significant gain derived from the computer source.

Very few of the data sources listed in response to Question 6 indicate a close connection with the concerns voiced by the principals in answering Question 2. The reason for commenting in this analysis on computers as an example of what appears to be a vague data source is the expense created by computer usage. It is probable that the data sources listed by the principals do provide necessary information to help them with their decision making. Their responses, however, are too general to allow further analysis.

Step Two - Summary Comments

Most of the principals interviewed gave similar answers concerning data gathering sources and means of narrowing the scope of a problem once identified. The principals spoke of gathering facts and discussing data with people. The facts gathered are through observation, discussion, reports, and computer printouts. The latter two sources are intended to be concrete and objective but their application to major areas of concern is not clear. The confidence in people varied as reflected in the answers to strategies used. The principals are aware of their authority, but their use of

democratic approaches is a common thread running through their comments.

The strategies mentioned are very general. The common element emerging from the comments on strategies is working through people to arrive at the best solution possible. Since education is a people based occupation, it is not surprising that the human factor is given a high priority by the principals. The subjective results of the human element, although probably well recognized by the principals, were not reflected in their comments.

Step Three - Analyzing and Comparing Alternatives

Question 7 - What are some factors considered in developing a solution?

All of the principals interviewed listed legal factors as elements in developing a solution. The elaborations on legal factors range from the comment of one principal who said that, "The law is important but I am not often involved with it," to the comment of another principal who said that, "I'm up to my ears in legal matters due to contract issues and board policy." These two comments indicate extremes in how principals can view legal factors. Inservice for principals in matters regarding the law may help to bring these two views closer together. If principals are either not involved with the law or immersed in it, they need help. Not one principal interviewed made reference to the legal advice advice which is available through the board attorney, through the Superintendent of the Educational Service Region, or through the State legal department.

A total of seven principals referred to time factors and seven also referred to financial factors in responding to Question 7. The mention of finance is consistent with the responses to Question 2 (What are the kinds of decisions with which you are concerned?) in which six of the twelve principals specified finance as an area of concern. Although the totals are similar, those supplying the answers are inconsistent. Only three principals who specified financial factors as an answer to Question 2 also specified financial factors as an answer to Question 7. Two principals who did not refer to financial factors in responding to Question 2 also did not refer to finance in answer to Question 7. The reasons for the inconsistency of responses for the seven of twelve principals who mentioned finance in one instance and not in another casts some doubt on the true relevance that these principals place on financial factors.

In reference to time, the principals who mentioned this factor seemed to believe that the mere reference to this factor was sufficient to clarify what they meant. The general implication was that there is not enough time to do everything required of the principals and so some solutions had to be weighed in terms not only of consequences but in

terms of time priorities. It would have been interesting to find out whether a solution acknowledged to be a good one but which took a great deal of time would be discarded in favor of a less desirable solution but which could be handled expediently. Attempts to probe this concern did not provide the data to draw a conclusion.

Consequences were mentioned by six of the principals interviewed. These principals related consequences to the impact of a decision on those affected by it, to the political ramifications of the decision (four of the principals specifically mentioned political concerns, although only two of these four also mentioned consequences as a separate factor), to the best interests of the student and the school, to feasibility in the long run, to philosophical consistency, and to morality. The range of concerns suggested by a reference to consequences is broad. The specifics listed can lead to additional factors to be considered in developing a solution. For example, the reference to morality makes one wonder about who shall judge, what are the degrees of morality involved, and what are the affective aspects of this con-The matter of consequences can also be viewed as long cern. range or short range, as suggested by one principal, and one consequence can lead to a chain of other consequences. To pursue this line of reasoning would be beyond the scope of this study. What is important is that many of the principals

recognized the importance of the consequences of their decisions.

Question 8 - What authority restrictions do you have?

The principals interviewed did not cite many restrictions on their authority. They seemed to believe that they have enough authority to do what they have to do although they do recognize certain restraints. The comfort of having enough authority is made clear by the one principal who said, "Good judgment is a possible restriction." Whether this concern is an authority restriction or a talent restriction is debatable but the answer is unique among the others given.

The majority of principals interviewed (nine of the twelve) who specified authority restrictions stated school board policy as a limitation on their authority. The fact that school board policy is a limitation on the authority of everyone employed by the school district is a fact of law. Why three principals did not mention this factor is not known.

The other references to authority restrictions were also legal. One principal categorized all restrictions as "legal." Contract restrictions were named by four of the twelve principals interviewed and three of the twelve also mentioned the Illinois School Code. No examples were given to elaborate on these types of restrictions during the interviews. Once mentioned, the principals seem to feel no need to explain these restrictions. If these restrictions are so obvious that they need no elaboration it is peculiar that so few principals mentioned them.

One principal mentioned that the cafeteria presents an authority restriction for him. This principal explained that he has no authority over the management of or over the food service in the cafeteria. No further comments were made about these aspects of authority restrictions. Since many discipline problems occur in a high school cafeteria, the question of who is in authority in the cafeteria is a major unanswered concern.

One response to Question 8 which stands out from the others is the statement of one principal who said, "I consider moral restrictions." This principal stated that he can make only those decisions which he considers to be morally right. This principal indicated that he has a self-imposed concept of morality. He did not explain the criteria for his moral judgment.

Question 9 - How do policies and/or rules hinder or aid your decision making?

The majority of the principals (ten of the twelve interviewed) said that board policies serve as guidelines to their decision making. One of these principals said, "If a policy is well written, it structures your decision. It gives guidelines and you don't have to make a decision." No other

principal gave such acceptability to the policies but most who referred to policies as guidelines regarded this direction as positive. In fact, five of the ten principals in this category stated that the policies offer no hindrance to them.

Among the seven principals who stated the policies can hinder their decision making only one indicated a possible area of conflict created by board policies. This one principal stated that "Policies are designed to treat every situation the same. This direction is difficult in a school which promotes individualized instruction." Clearly, in this school, based upon what the principal has said, there is a need to clarify certain uniform aspects of policy which conflict with an emphasis on individualization.

Two other principals gave examples of how board policies can hinder their decision making. One principal said that policies are "sometimes slow and cumbersome." Another principal said "The policy includes too many steps to fire someone." These two comments may have merit but they are not indications of strong discontent with policies. Even if the discontent were strong, however, the comment about firing someone goes beyond board policy into the legal area of due process.

Question 10 - What is your support base?

In answer to the above question, three of the twelve principals mentioned the board of education and the superintendent and one principal mentioned the superintendent and not the board of education. One principal said that he has no support base. Probing led to the conclusion that this principal is self assured and considers himself to be his own support base. During the interview, however, he made comments which showed clearly that he needs and has the backing of the superintendent.

Since only four principals mentioned the superintendent as their support base and only three principals mentioned the board of education and the superintendent, perhaps the other principals interviewed took for granted that their support base included their superiors. This supposition is made to try to explain only a few principals cited superiors in answer to Question 10.

There were variations in the responses. One principal stated that his support base consists of the whole gamut of persons including students, parents, faculty, and superiors. Another principal mentioned that his support comes from department heads and from "a faction of teachers, community, and students." Another principal stated that his support base stems from the philosophy of the school district.

Three principals gave answers which were different from the majority of other responses. All three said in one way or another that their support base comes from their reputation and experience. This view can be summed up by the one principal who said, "People rely on you as a leader and accept your decisions."

Step Three - Summary Comments

The principals interviewed were very clear in their acknowledgement of legal factors, time factors, and financial factors as they affect solutions to problems. The reasons for listing these factors varied, but they all related at least indirectly to consequences. Although few alternatives were specified in dealing with tentative solutions, the comments on consequences indicated that there are alternatives, including political influences, which are considered by the principals in determining solutions for problems.

The question of authority does not seem to be a problem for the principals interviewed. They recognize the limitations on their decision making due to laws, board policies, and union contracts, but there is no apparent difficulty in working with these restrictions. The comments on hindrances due to policy restrictions were minimal and did not indicate serious obstacles.

In general, although the principals are aware of the support base of their superiors, the majority of principals gave answers to the questions which reflect their confidence and satisfaction concerning their decision making ability.

Step Four - Selecting a Plan to Follow

Question ll - Can you give me any instances where you used creative brainstorming in decision making?

The principals have a favorable attitude toward brainstorming. Although the examples given may be questioned in terms of their creative aspects, eight of the twelve principals interviewed stated that they use brainstorming in decision making. One principal gave a terse "no" as his answer to the question. Another principal did not answer the question directly and no amount of probing led to a clarification of whether he uses this approach. He said repeatedly that he contacts the superintendent in matters of "sensitive personnel problems" but whether he and the superintendent engage in creative brainstorming in decision making could not be determined.

The other principals had more favorable things to say about brainstorming in decision making. Their answers range from "all the time" (three of the twelve principals) to "during weekly meetings" (two of the twelve principals) to "predominantly in unique situations" (one of the twelve principals). The example of a creative brainstorming session was explained by one principal who said, "I have two agendas for my meetings, one open and one hidden. I go around the room and ask each teacher to say what's on his mind. From that I try to blend their views with my hidden agenda." This principal elaborated on his group dynamics background and he insisted that "A good communication system is fundamental to decision making." This obvious inconsistency was not pursued during the interview.

Two principals spoke positively about brainstorming in decision making but neither one uses this approach in making his decisions. One of these principals when asked about his use of brainstorming said, "We used it in the seventies for school scheduling, but we don't use it very often now."

The use of brainstorming in certain instances was mentioned by four principals. One of these four did not specify what he meant by "certain instances." The other three principals who said that the use of brainstorming "depends upon the problem" gave "attendance," "scheduling," and "sensitive personnel problems" as examples. The variation in these three examples suggests that those who accept brainstorming as an approach to decision making can apply this approach appropriately to almost any problem.

One principal dismissed the whole question with the response that "Brainstorming is gimmicky."

Question 12 - How does research help you in decision making"?

Mixed responses were given by the principals to this question. Three of the principals emphasized the importance of research. One of these three said, "I can't make a decision without it." Another said, "Research is functional for my purpose."

Four principals stated that they use research to some extent. One of these principals said that, "Bloom is good for help in writing objectives." This same principal also said, "Most of the research is useless." Another of the four principals said that he relies on research "whenever the need is felt and the purpose is served." He stated further that, "A lot of research is ivory tower. Research is good in the fields of affective teaching, evaluation, and inservice. I don't depend on it too much." Another principal said that research is valuable "only for major decisions." A similar comment was made by a principal who said, "Research comes in handy for curriculum change."

One principal gave an example of his reliance on research provided by the Gallup Poll. During the interview this principal referred often to the importance of research and to his use of it. His specific reference to the Gallup Poll suggests that his concept of research needs some clarification.

One of the twelve principals interviewed stated emphatically, "I don't read research."

The foregoing responses reveal that the principals interviewed are not uniform in their understanding of research or their use of it. Those who commented negatively on the values of research made their points more strongly than those who spoke of the values of research.

Question 13 - Do you encourage participatory decision making?

The principals interviewed are in favor of participatory decision making. One principal stated that his use of this approach depends upon the situation and another principal stated that he does not encourage participatory decision making. All of the others (ten of twelve principals) gave enthusiastic support to this approach. Two of these principals answered the question by saying "Absolutely." And one of these two added, "Consistently, even if I disagree." Three other principals qualified their enthusiasm for participatory decision making by saying, "Input, yes. I make the final decision," "Yes, if it comes out successfully" and "Yes, if I haven't already made up my mind." The latter principal said that he does not encourage participatory decision making for "political or manipulative ends. I make the final decision because I am responsible."

Still another principal answered the question in an interesting fashion. In answer to Question 13 he said, "Yes,

twice a week." He stated that he encourages participatory decision making "twice every Monday." No amount of analysis could clarify this point.

From the responses gathered there is evidence that principals endorse participatory decision making without sufficient indication that they understand it. The research which was mentioned in response to Question 12 does not seem to help much in reference to the significance of participatory decision making.

Step Four - Summary Comments

The responses to the questions in this section do not reveal clearly how the principals select a plan to follow in decision making. Their comments on brainstorming, on research, and on participatory decision making are varied and are, in some instances, contradictory.

One principal praised brainstorming and then said that it is "gimmicky." Several principals referred to the use of brainstorming in unique situations and used typical situations as examples. One principal expanded on his background in group dynamics and then described how he manipulates the group in brainstorming sessions. Two administrators noted the importance of brainstorming but did not use it as an approach. The creative aspect of this approach was not highlighted by any of the twelve principals interviewed.

Comments on research included a broad range of responses. Except for three principals who stressed the importance of research, including the one who relies upon the Gallup Poll, the principals do not rely heavily on research for their decision making. The underlying reason for this situation was expressed by the principals who said that research cannot help in solving day-to-day problems in a school.

Responses to the question dealing with participatory decision making revealed some lack of awareness of some principals of what this approach means. The principals gave positive responses to the question dealing with this approach but their comments in many cases belied their acceptance of participatory decision making.

Step Five - Evaluation

Question 14 - How do you evaluate decision made?

The responses to Question 14 can be described as pragmatic. The most frequently mentioned means of evaluating decisions were in terms of whether the decisions work and in terms of how the people affected by the decisions feel about the decisions. Three of the twelve principals replied that they evaluate their decisions in terms of district and building goals. This latter reference is more concrete than the responses of five principals who replied "If it works," and five principals who were concerned with the acceptance of the decisions by those involved.

The focus on pragmatic evaluation was stated by one principal who said, "I am still here." Another principal said, "If the problem is eliminated, the decision is a good one." Another principal replied, "The reaction of the system is a major basis for evaluating my decisions." This same principal also mentioned that he seeks evaluation from colleagues and peers. Since there is only one principal in the building, it is difficult to determine who the peers are. If this principal seeks evaluation from fellow principals the question of peers is clarified but the question of data base is not. The peers (fellow principals) cannot know the facts nor the situation as well as the principal of the building where the decision is made.

Three principals mentioned follow-up studies and review as means of evaluating their decisions. The other principals did not specify this crucial aspect of evaluation.

The responses clearly demonstrate that there is no formal evaluation used by the principals interviewed. References to "informal input," feelings of the staff, and focusing on ends rather than means illustrate the absence of formal approaches. The comments made concerning the evaluation of decisions in terms of goals and through review suggest a possibility of some systematic approach to Question 14, but the data did not provide proof of this possibility.

Question 15 - Is there a recourse or grievance opportunity for those affected by the decision?

The responses to Question 15 are similar in almost every respect. All but one principal stated that there is a union procedure which covers the handling of grievances. One principal among the eleven who cited union procedures added that "I have never had a grievance because everyone here is involved in the decision made. I encourage the staff to complain to me and we settle problems quickly."

Ten of the twelve principals spoke about their open door policy. In general, their comments were essentially the same. These principals, all of whom have formal grievance procedures in their schools, encourage teachers to come to their office and talk freely about problems.

Two principals whose staffs can follow formal grievance procedures stated their opposition to an open door policy. One of these principals said, "There are too many teachers for that." Another principal said, "I don't want to create the impression that people have an invitation to come into my office and complain."

The one principal who said that there is no formal grievance procedure afforded to teachers affected by his decisions specified that the teachers always have recourse by being uncooperative. He said that grievances can be filed if a regulation is violated, but he did not admit that grievances could be filed for any other reasons. If a teacher

did not accept a decision made by this principal, the teacher could demonstrate uncooperative behavior rather than file a grievance. Another principal used this same type of reasoning when he said, "A recourse is that teachers won't cooperate." This latter principal stated that there is a grievance procedure established in his school. Lack of cooperation may not be viewed as a formal grievance but it can have serious consequences. Neither of these two principals spoke of this concern.

Question 16 - Do you consider yourself a good decision maker?

All administrators in the sample answered "yes" to the above question. The confidence expressed by these principals can be summed up in the comment of one principal who said, "You can't be a successful high school principal if you have made bad decisions."

Various reasons for this degree of confidence were given. One principal said, "I am a student of communications." Another one said, "The way I go about it, I gather lots of data and involve people." Another one stated that he gets "positive vibrations." This same principal said, "I am committed to the profession." These reasons may not be solid enough to prove the contention that the principals are good decision makers, but they are typical of the reasons given during the interviews.

The responses do not reveal much evidence for the selfratings of being a good decision maker. As noted in the responses to Question 14, there is no formal evaluation system used by the principals to measure their decisions. Their use of informal means is probably sufficient to lead them to conclude that they are good decision makers.

Step Five - Summary Comments

The responses relating to Step Five are clear but lack depth. Decisions are evaluated by looking at results and at staff acceptance. Research is not used, follow-up is seldom provided, and a systematic approach to evaluation is not evident. In spite of these findings, the principals consider themselves to be good decision makers. They pride themselves on a lack of mistakes, on involving staff in decisions, and on the "smooth operation of the building."

A grievance procedure is accepted as a matter of course among the principals although one principal had objections to this approach. In addition to this provision, the concept of an open door policy is acceptable to a majority of the principals as stated directly or indirectly. Negative comments about grievances did not surface. The reasons given by the principals for their confidence and apparent satisfaction relative to evaluating decisions and their decision making ability are more subjective than objective; however, they are consistent. In spite of this consistency, not much information about their methods of evaluation is provided by the interview data.

Question 17 - Can you explain your rationale for decision making?

Several references have been made in the analysis of the data to a lack of a systematic approach to decision making by those interviewed. Few indications were cited in the responses which suggested an approach beyond trial and error or experience. In response to Question 17, however, ten of the twelve principals (designated as Pl through Pl2) listed a step-by-step process for decision making. Their comments follow:

| _ | | |
|---|---|--|
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| | | |

| 1. | Find | out | information. | • |
|----|------|-----|--------------|---|
|----|------|-----|--------------|---|

- 2. Go to level where problem occurred.
- 3. Come up with recommendations.
- 4. How will it affect situation? Safety of students?
- Is information authentic. Where did data come from? Verify.
- 6. How much time is needed?
- 7. What are the alternatives?

P2

1. Get information.

- 2. Clear definition of problem.
- 3. Consider ramifications of problem.
- 4. Select best alternative.
- 5. Make decision in best interest of learner.

| Ρ3 | 4. 5. 6. 7. 8. 9. 10. | <pre>Bring people who have most knowledge about problem together. Review problem. Analyze affect of what we're doing. Determine whether decision would improve what we have. Extend to greater base (involve more people). Look at literature (models, case studies). Send out teams of people. Present written reports defending their model. Apply cost, personnel, facilities, etc. Implement providing feedback for superintendent. Evaluate.</pre> |
|-----|---|---|
| Р4 | 1. | It's an intuitive process. |
| P5 | 1. | There is not process, just experience. |
| P6 | 1. 2. 3. 4. | Is there a need for a change? Is need and proposed solution beneficial? Is it practical? Is it fair, honest, needed? |
| P7 | 1. 2. 3. 4. 5. | Legal, policy. What's best for all concerned? Consistency - What have we done? Fair To what end? What will be served by decision? |
| Ρ8 | 1. 2. 3. 4. 5. 6. 7. | Who owns the problem? Make person know that it is his problem. Look at consequences. Gather information for people. Consider it. Look at pros and cons. Impact on whom? Consequences. Make decision. |
| P9 | 1. 2. 3. 4. 5. | Get all the facts. Study them. Consider alternatives. Decide. Evaluate. |
| P10 | 1. 2. 3. | Get input from staff. See affect of decision on people - consequences. Make decision. |

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| P11 | 1. | Identify problem. (Most important part of decision-making process.) |
|-----|----------|--|
| | 2. | Gather information. |
| | 3. | Involve people associated with problem. |
| | 4. | May or may not have choice. Look at alternatives. (Ask people about alternatives to determine impact.) |
| | 5. | Articulate solution. |
| | | Evaluate. Does it accomplish what you intended it to? |
| P12 | 2. 3. | Identify problem Gather data. Make hypothesis. Test. |

5. Evaluate.

Although the specific listing of steps is different in each instance, there are some common elements in most of the lists. The lists include gathering of information, defining problems, seeking alternatives, selecting alternatives, implementing an approach, and evaluating what has been done.

Two of the principals included the question of fairness as part of the steps in the decision-making process. Moreover, consideration of time, cost, and affective considerations can be noted in the various rationales for decision making listed.

Thus, it would appear that the principals who can identify readily and concretely a rationale for decision making could comment on the application of this process to other questions during the interview. Many indirect and several direct references to the processes identified were made, but, as noted, the subjective, unsystematic approaches and evaluations were typical of the responses throughout the interviews. This inconsistency is indicated by the responses to Question 17 by two principals who did not provide a clear rationale for decision making. One of these principals stated, "It's an intuitive process," and the other stated, "There's no process, just experience." It is ironic that these latter quotes sum up the major findings of the interview, in spite of the fact that ten of the twelve principals did provide a rationale for decision making. There was little evidence during the interviews that these rationales were applied in a systematic way.

Question 18 - Are there any additional comments you would like to make with regard to decision making? An opportunity to provide additional comments was given in Question 18. In general, the comments did not add to the store of data in terms of a rational process for decision making. The comments added some color to the data collected as well as several insights.

One principal said, "Participants should be fluid enough to promote creativity." Another principal said, "You have to be confident, sure, not afraid." A third principal said, "The process for decision making should operate on a team level." Another principal offered the comment, "One has to allow for time." Still another principal said, "It's hard to get others to own a problem. People try to divest themselves of problem ownership."

Several comments which were intended to provide insights were made: "A skill most helpful in decision making is knowing when not to make a decision;" "You can't analyze decision making. It is body language."

These types of comments indicate a variety of views. The application of these views to a careful analysis of a decision-making process is lacking in relevance. Therefore, to elaborate further would not enhance the interpretations of the data presented throughout this study.

Comparison of Responses of Middle Managers and High School Principals

The structure for the comparison and analysis of responses for the two groups is in terms of each major Step in the decision-making process used throughout this dissertation. To repeat the responses for each individual question would be redundant. The data source for comparing the two groups is primarily the summary section at the end of each Step. These summaries contain the main insights derived from the analysis of each question relating to the respective Steps.

<u>Step One – Diagnosis</u>

The analysis of this Step reveals very little differences between the responses of the middle managers as a group and high school principals as a group. Except for the emphasis on profit-loss concerns in the middle management group, an emphasis absent in the responses of the high school principals, the similarities between the groups are readily apparent. The major means for diagnosing a problem in both groups is observation. The results of their observations are subjected to their own professional judgments as the major criterion for acceptance or rejection. Both groups rely heavily on the input of their subordinates in the diagnosis of problems and both groups stated that personnel matters are the major kinds of decisions with which they are concerned.

A major difference between the two groups is the contact with superiors in the diagnosis phase of the decision-making mode. Few principals (three of the twelve) stated that they became aware of problems through their superiors, whereas seven of the twelve middle managers identified superiors as a source of awareness about problems. Both groups made comments which give evidence that they recognize and support a hierarchy, but the middle managers apparently use the input of superiors more than the principals admit.

A possible explanation for the lack of reliance by the principals on their superiors in the diagnosis of problems is that the principals occupy the top management position in the school. The managers are in charge of their departments and enjoy sufficient autonomy to run these departments, but the principal is in charge of many departments and has a responsibility level which is more varied than the middle managers in business. Moreover, the principals have more autonomy in their building than the middle managers have in their departments for several other reasons. One reason is the proximity of the superiors in business. The office of these superiors is located, in every instance in this study, in the same building as the offices of the middle managers. Another reason is that the high school curriculum is usually more segmented so each department does not depend upon another department for maximum efficiency. In business the interrelatedness of the departments can be a factor in the necessity for middle managers to confer with their peers (an opportunity not readily available to the one principal in a high school) and to seek approval and direction from superiors.

Although the principals indicated more involvement with a democratic approach to decision making than did the middle managers, five of the twelve middle managers interviewed stressed the importance of the human element in the diagnosis of problems.

Step Two - Discovering Alternative Solutions

Although references to alternative solutions were made by members of both groups these references were vague. The managers, as a group, did not express views which varied from the company line, and they said little about alternatives. The principals, whose mandate to educate is less clear than the profit-loss concern of the middle managers, also said very little about alternatives. The strategies explained by several members in each group are vague and do not provide any unusual approaches. The middle managers, however, did refer to what they considered to be specific strategies, whereas the principals, other than referring to being direct and communicating effectively, did not specify any strategies.

Neither group uses research findings consistently nor in relationship to their major area of focus, which is personnel matters.

Both groups allowed subjective considerations to enter into their decision making, but, again, the groups did not give much evidence of the consideration of or use of alternatives in a significant way.

Step Three - Analyzing and Comparing Alternatives

Since few alternatives were discernible in reference to Step Two, there were few comments which reflected the use of alternatives with reference to Step Three. Both groups specified the same kinds of factors which must be considered in weighting an approach to problem solving: time factors, legal factors, and financial factors. In addition to the consequences which come specifically from these considerations, both groups spoke of the importance of consequences in general as a major concern. Indirectly, this reference indicates that in spite of the lack of specific comments dealing with alternatives, the middle managers and the principals are aware of several choices available to them for decision making.

Step Four - Selecting the Plan to Follow

Both groups talked around the topic of how a plan is selected for purposes of decision making. Many of the comments from each group are similar in reference to brainstorming, research, and participatory decision making. Responses from both groups indicate an acceptance of brainstorming in certain situations but not much value was placed on its use by respondents in both groups. Similarly, both groups accept research as an aid to selecting a plan for decision making, but the use of the research is limited in scope and in application.

The comments from both groups on participatory decision making are contradictory. The comments made by the respondents, many of which are quoted, give evidence to the fact that the acceptance of participatory decision making and the understanding of this approach by those interviewed are vastly different. Many articles and other references to participatory decision making can be found in the literature of management and in the literature of education. The ability to identify this approach posed no problem for those interviewed. Why this ease of identification and the availability of much literature on the topic have not resulted in more understanding of the approach is an unanswered question.

Step Five - Evaluation

Responses from both groups show clearly that there is no consistent or formal means of evaluation of decisions made. The subjective element is apparent in the responses from both groups. The middle managers refer to company goals and the principals refer to results, but in neither group did the respondents indicate how the impact of specific decisions made on their level have an impact upon these ends.

The respondents use subjective means of evaluating their decisions and they use subjective criteria to evaluate themselves as good decision makers.

Both groups accept grievance procedures as a fact of life. Few comments were made about negative aspects of grievance procedures. There are more informal grievance procedures noted by the middle managers than by the principals. The influence of grievance procedures on the evaluation of decisions made by those interviewed did not seem to be a matter of concern.

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CHAPTER IV

Summary, Recommendations, and Implications

Introduction

The purpose of this study is to analyze the decision making process of middle management executives in terms of a model derived from the professional literature. The executives interviewed serve as high school principals and middle managers in service industries. The sample included twelve high school principals and twelve middle managers located in North, Northwest, and West suburban Cook County, Illinois.

These middle management executives were interviewed to obtain responses from a structured set of questions which are based upon a five-step model for decision making.

- l. Diagnosis
- 2. Discovering Alternative Solutions
- 3. Analyzing and Comparing Alternatives
- 4. Selecting the Plan to Follow
- 5. Evaluation

This model, derived from an analysis of the literature in business and in education on the topic of decision making, provided the structure for the interviews and for the analysis. The analysis is presented in narrative fashion because

the data do not lend themselves to tabular or to statistical treatment.

This Chapter presents conclusions, recommendations, and implications for further study based upon the results of this dissertation.

Conclusions

Many interesting facts and points of view became apparent during this study. References to these data have been made throughout Chapter III. The following list of conclusions is an attempt to pull together some of these references into broader and more general statements than those presented in Chapter III. These conclusions are stated in reference to each Step of the decision making model for ease of identification and to highlight their importance.

Major Conclusions for Both Groups

Step One (Diagnosis) - In diagnosing a problem subjective judgment is the primary and most frequently mentioned criterion.

Observation was cited by the respondents as the major means for diagnosing a problem. Subordinates are the chief source of information for the principals and the middle managers. The interpretation of what the subordinates relate are judged subjectively.

Step Two (Discovering Alternative Solutions) - The data revealed little evidence that alternative solutions are sought.

Alternatives were seldom mentioned by the respondents. The few references made did not give evidence that problems are considered in a variety of ways or that a variety of approaches are used.

Step Three (Analyzing and Comparing Alternatives) -Since few alternative solutions are discovered by the respondents their analysis is generally limited to solution which relate to financial, time, and legal consequences.

Comments from the respondents indicated that they are aware of some alternatives but those interviewed did not seem to consider options beyond those stated in the conclusion.

Step Four (Select a Plan to Follow) - No systematic approach to the selection of a plan to follow is evident.

The plans followed by the respondents indicated a lack of consistency. The subjective judgment cited in reference to the conclusion for Step One was the major criterion in selecting a plan to follow.

Step Five (Evaluation) - In evaluating decisions made the reliance is on subjective criteria rather than on a systematic approach to evaluation.

All but two respondents cited a rationale for decision making during the interview but they did not apply this rationale to the specific questions asked of them. Although frequent reference was made to the evaluation of decisions in reference to goal attainment the respondents used subjective

measures to evaluate their decisions, their decision-making process, and themselves.

The responses given by both groups to Question 17 clearly demonstrate that almost every person interviewed was able to recite a step-by-step rationale for decision making. The above conclusions clearly demonstrate that there is a gap between what these decision makers profess and what they do.

In addition to the major conclusions for each Step several other conclusions can be stated:

1. There are only minor differences in the application of the model reported by the middle managers and principals.

2. Recognition and application of affective concerns are common in the decision making of the middle managers and principals.

3. Middle managers and principals are comfortable in the way that they make decisions.

4. No evidence of concern about pitfalls in decision making emerged from either group.

5. The authority of the position is well recognized by respondents of both groups.

6. Recognition of hierarchy is clear and is followed even with the subjective elements noted before.

7. Indications of potential communication problems exist in business and in school.

8. Use of the computer is widespread but data received are basic.

9. Research when used is limited in scope. Research on staff development, motivation, and other personnel matters is not used.

10. Brainstorming is used frequently and is open ended but the results do not play an important part in the final decision.

11. Participatory decision making is misunderstood.

Recommendations

The results of this study provide the basis for recommendations for the improvement of decision making. The respondents in this study represent a small sample of decision makers but to the degree that their comments are indicators of their comments are indicators of their colleagues the recommendations can be valuable. The list of recommendations is not in terms of a priority ranking.

1. <u>Apply the knowledge of a decision making process to</u> <u>decision making</u>. The ability to specify the steps of a decision-making process is of little value if application of these steps is not made.

2. <u>Keep all key persons in a hierarchy well informed</u>. If the decision maker and the superior do not keep each other well informed, pitfalls in communication may develop no matter how effective the decision making process may be.

3. Expand the use of research. There are many research studies which can aid a decision maker in discovering and in selecting alternatives as solutions to problems. The scope of the research should be broad enough to include pertinent information with regard to selecting alternatives as solutions to problems. The scope of the research should be broad enough to include pertinent information on topics related to the problems identified.

4. Expand the use of computers. Information provided by computers can be valuable in terms of the content as well as the objective format of the information. Computers, to be effective, should not be restricted to the gathering of basic data such as attendance records. Computers can be programmed to aid in problem solving.

5. <u>Keep current in the literature of decision making</u>. Confusion about the meaning and application of various approaches to decision making can be eliminated through professional reading. In addition to research, many popular articles explain approaches such as brainstorming and participatory decision making. If one is well informed about such approaches, the risks and the potential problematic consequences of using them are minimized.

Implications for Further Study

Based on the results of this dissertation, several suggestions can be made which warrant further study:

 Analyze the decision making process used by superintendents of school districts and by top echelon executives in business.

2. Analyze the perceptions of employees concerning the decision making process of their superiors.

 Analyze the use of computers in aiding the decisionmaking process.

4. Analyze the effects of the evaluation components of decision making in terms of subjective criteria and in terms of objective criteria.

5. Analyze the consequences of decision making in areas other than legal, financial, and time concerns.

BIBLIOGRAPHY

A. BOOKS

- Arnold, John D. <u>Make Up Your Mind; The Seven Building Blocks</u> to Better Decisions. New York: Amacom, 1978.
- Benge, Eugene J. <u>Elements of Modern Management</u>. New York: Amacom, 1976.
- Benton, John B. <u>Managing the Organizational Decision Process</u>. Massachusetts: Heath and Company, 1973.
- Burns, James MacGregor. <u>Leadership</u>. New York: Harper and Row Publishers, 1978.
- Cornell, Alexander H. <u>The Decision Maker's Handbook</u>. New Jersey: Prentice-Hall, Inc., 1980.
- Emory, C. William, and Powell, Niland. <u>Making Management</u> Decisions. New York: Houghton Mifflin Company, 1968.
- Good, Carter V.; Barr, A. S.; and Scates, Douglas E. <u>The</u> <u>Methodology of Educational Research</u>. New York: Apple-Century-Crofts, Inc., 1941.
- Gore, William J. <u>Administrative Decision-Making: A Heuristic</u> Model. New York: John Wiley and Sons, Inc., 1964.
- Gore, William J., and Dyson, J. W., eds. <u>The Making of Deci</u>sions: A Reader in Administrators Behavior. New York: The Free Press of Glenco, 1964.
- Heirs, Ben and Pehrson, Gordon. <u>The Mind of the Organization</u>. New York: Harper and Row Publishers, 1977.
- Jordan, K. Forbis. <u>School Business Administration</u>. New York: The Ronald Press Company, 1969.
- Knezevich, Stephen J. <u>Administration of Public Education</u>. New York: Harper and Row Publishers, 1975.
- Likert, Rensis. <u>New Patterns of Management</u>. New York: McGraw-Hill Book Company, Inc., 1961.

- Newman, W. H., and Sumner, C. E. <u>The Process of Management</u>. New Jersey: Prentice-Hall, Inc., 1961.
- Owens, Robert G. <u>Organizational Behavior in Schools</u>. New Jersey: Prentice-Hall, Inc., 1970.
- Simon, Herbert A. <u>Administrative Behavior: A Study of Deci</u>sion-Making Processes in Administrative Organization. New York: The Free Press, 1965.
- Simon, Herbert A. The New Science of Management Decision. New York: Harper and Row Publishers, 1960.
- Sutherland, John W. <u>Administrative Decision-Making: Extend-</u> <u>ing the Bounds of Rationality</u>. New York: Van Nostrand Reinhold Company, 1977.

B. ARTICLES AND REPORTS

- Ford, Charles H. "The 'Elite' Decision-Makers: What Mades Them Tick?" <u>Human Resource Management</u> 16 (Winter 1977).
- Heller, Frank A.; Drenth, Pieter J. D.; Koopman, Paul; and Rus, Veliko. "A Longitudinal Study in Participative Decision-Making." Human Relations 30 (1977).
- Karlitz, Howard. "Unionization of Educational Administrators in the USA." <u>International Review of Education</u> 25 (1979).
- Kostman, Samuel. "Shared Problem Solving, Decision Making." NASSP Bulletin 62 (January 1978).
- Lanaghan, Richard C. "Nine Steps to a Major Decision." Illinois School Board Journal 49 (May-June 1981): 18-21.
- Partin, Ronald L. "A Dozen Ways to Enhance Your Decision Making." NASSP 63 (March 1979).
- Peter, Richard, and Peter, Virginia. "Values Clarification Skills: Helping Problem Solvers to Become Decision Makers." <u>Man/Society/Technology</u> 38 (November 1978).

- Bail, Joe P. and Cushman, Harold R. <u>Teaching Adult Education</u> <u>Courses: The Business Management Model</u>. Ithaca, New York: ERIC Document Reproduction Service, ED 141 589, 1976.
- Hephner, Tom. <u>Industrial Sales Decision-Making</u>. Columbus, Ohio: ERIC Document Reproduction Service, ED 037 831, 1969.
- Kostman, Samuel. <u>A Case History: Cabinet-Level Renewal at</u> <u>George Washington High School</u>. New York, N. Y.: ERIC Document Reproduction Service, ED 151 477, 1976.
- Thompson, Eugene W. and Smidchens, Uldis. <u>Process and Prob-</u> lems of Prioritizing Educational Goals in a Complex <u>Society</u>. New York, N. Y.: ERIC Document Reproduction Service, ED 151 476, 1977.
- Vidich, Arthur J., and McReynolds, Charles W. <u>High School</u> <u>Principals Study Seminar</u>. New York, N. Y.: ERIC Document Reproduction Service, ED 037 831, 1969.
- Watkins, Arthur N. <u>Actual and Ideal Decision-Making Pro-</u> cesses Utilized in Senior High Schools that Individualize Instruction. Madison, Wisc.: ERIC Document Reproduction Service, ED 187 Oll, 1978.

C. DISSERTATIONS

- Blaylock, Bruce Kevin. "Interactive Effects of Classificatory and Environmental Variables in Decision-Making Under Conditions of Risk." Ph.D. dissertation, Georgia State University, 1980.
- Fleener, Bernard P. "A Comparison of Action References of the High School Principals, Teachers, and Students in Decision-Making." Ed.D. dissertation, University of Illinois at Urbana-Champaign, 1974.
- Gress, Donald H. "Participatory Leadership: Leadership Characteristics of Secondary School Principals and Their Relationship to Perceived Subordinate Participation in the Decision-Making Process." Ph.D. dissertation, Iowa State University, 1974.

- Guzzo, Richard Anthony. "The Decision Making Quality at Managerial Groups." Ph.D. dissertation, Yale University, 1979.
- Harlow, Glenda Whitaker. "A Study of the Usefulness of the Focused Interview as a Method to Determine if Secondary Principals Exhibit Rational Behavior in the Decision-Making Process." Ph.D. dissertation, University of Alabama, 1980.
- Hayes, Charles Henry. "Comparison of Management Development Programs in Industry and Education in Cook County, Illinois." Ed.D. dissertation, Loyola University of Chicago, 1979.
- Jenkins, Marshall. "A Study of Connecticut Secondary Principals Perception of Decision Making Prerogatives in the Administration of Schools." Ph.D. dissertation, University of Connecticut, 1972.
- McCarthy, Walter Loring. "A Study of the Relationship Between Leadership Behavior, Locus of Control, and Decision-Making Style of Connecticut Public High School Principals." Ph.D. dissertation, University of Connecticut, 1977.
- Miller, John P. "Information Processing in Organizations: The Development and Test of a Contingency Model of Ambiguity, Differentiation, Interdependence, Communication, Decision Making, Conflict, and Effectiveness." Ph.D. dissertation, Northwestern University, 1980.
- Shirley, Charles John. "The Relationship of Secondary School Principals' Attitude Toward Participatory Decision-Making and Role Conceptions as a Function of Their Bureaucratic and Pos-Bureaucratic Orientation." Ph.D. dissertation, University of Pittsburg, 1972.
- Stone, Clarke Raymond. "Decentralization and Decision Making: An Analysis of the Perceptions of High School Principals and Central Office Administrators." Ed.D. dissertation, University of Southern California, 1973.
- Woodward, Charles William. "Decision-Making and Problem-Solving in the Secondary School Principalship: Perceptions of Secondary School Principals and Significant Others." Ph.D. dissertation, University of Utah, 1979.

APPENDIX

- 1. How do you become aware that a problem exists?
- 2. What are the kinds of decisions with which you are concerned?
- 3. With whom do you discuss perceived problems?
- 4. How do you narrow down the scope of a problem once you identify it?
- 5. What are some typical strategies utilized when you hear about a problem?
- 6. What are your data gathering sources? (In-house and out of house)?
- 7. What are some factors considered in developing a solution?

| a. | legal | e. | trade-offs |
|----|--------------------|----|-----------------------|
| b. | financial | f. | effect on job, people |
| с. | time | g۰ | consequences |
| d. | political concerns | f. | priorities |

- 8. What authority restrictions do you have?
- 9. How do policies and/or rules hinder or aid your decision making?
- 10. What is your support base?
- 11. Can you give me any instances where you used creative brainstorming in decision making?
- 12. How does research help you in decision making?
- 13. Do you encourage participatory decision making?
- 14. How do you evaluate decisions made?
 - a. relationship to goal
 - b. to "crisis"
 - c. to routine
 - d. to morale factors
- 15. Is there a recourse or grievance opportunity for those affected by the decision?

16. Do you consider yourself a good decision maker?

17. Can you explain your rationale for decision making?

- 18. Are there any additional comments you would like to make with regard to decision making? (Your role, process)
 - NOTE: In utilizing the questions above, the opportunity to pursue tangents as well as to abridge will become evident during the interview. The purpose of the above questions is to provide a structure which focuses on the main elements of the decision-making model.

The survey instrument used during the interview was scrutinized by a panel of three experts who are not part of the sample. Their suggestions for modification were incorporated into the final set of questions to be used during the interview.

APPROVAL SHEET

The dissertation submitted by Margaret B. Lundquist has been read and approved by the following committee:

> Dr. Melvin P. Heller Chairman, Department of Administration and Supervision, Loyola

> Dr. Philip Carlin Associate Professor, Administration and Supervision, Loyola

> Dr. Max Bailey Associate Professor, Administration and Supervision, Loyola

The final copies have been examined by the director of the dissertation and the signature which appears below verifies the fact that any necessary changes have been incorporated and that the dissertation is now given final approval by the Committee with reference to content and form.

The dissertation is therefore accepted in partial fulfillment of the requirements for the degree of Doctor of Education.

11,1981

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