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The Louisiana State University and Agricultural and Mechanical College, Ph.D., 1974 Business Administration

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A STUDY OF THEORY X-THEORY Y MANAGERIAL ATTITUDES AND ATTITUDES TOWARD ORGANIZATIONAL POWER OF MANAGERS

IN THE PUBLIC UTILITIES INDUSTRY IN

THE NEW ORLEANS AREA

A Dissertation

Submitted to the Graduate Faculty of the Louisiana State University and Agricultural and Mechanical College in partial fulfillment of the requirements for the degree of Doctor of Philosophy

in

The Department of Management

by Alma Louise Hammett B.A., Tulane University, 1944 M.B.A., Tulane University, 1968 December, 1974

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ABSTRACT

An empirical study was conducted to test the relationship between the Theory X or Theory Y orientation of managers in the public utilities industries in the New Orleans area and their attitudes toward the exercise of power. Based on the theories of Douglas McGregor, it was hypothesized that managers with Theory X orientation would have significantly different attitudes toward such concepts as <u>managerial authority</u>, to direct, to advise, etc., than would managers with Theory Y orientation. Thirteen concepts were selected and attitudes toward them were measured by the semantic differential with nine bipolar, adjectival, seven-point scales.

There were 139 subjects in the study and 112 were classified as Theory Y oriented based on their agreement with a series of statements descriptive of Theory Y assumptions. The attitudes of the Theory Y managers were found not to differ significantly from the attitudes of the Theory X managers toward any of the concepts related to the exercise of power.

Three factors emerged from factor analysis of the semantic differential results. These factors were given names to encompass the polar adjectives of the scales with which they were most highly correlated. They were labeled the <u>hero</u> factor, the <u>guillotine</u> factor, and the <u>ease</u> factor. The <u>hero</u> factor correlated highly with the adjectival scales successful-unsuccessful, effective-ineffective, fair-unfair,

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important-unimportant, and strong-weak. This factor accounted for 45.0 per cent of the total variance, and 64.6 per cent of the common variance in the scale ratings. The <u>guillotine</u> factor correlated with the scales severe-lenient, and fast-slow. The <u>ease</u> factor correlated only with the scale easy-difficult.

The semantic distances between the two pairs of concepts, <u>managerial authority - managerial power</u> and <u>to coerce - to direct</u> did not differ significantly for the two groups. Theory Y managers made a significantly greater distinction between the concepts <u>to direct</u> and <u>to</u> <u>coerce</u> than between the concepts <u>to direct</u> and <u>to advise</u>, indicating that the latter pair were closer in meaning. However, Theory X managers did not differ from Theory Y managers; they also perceived <u>to direct</u> to be closer in meaning to <u>to advise</u> than to <u>to coerce</u>.

Theory X and Theory Y managers did differ significantly in their attitude toward the concept <u>worker</u>. However, the semantic distances between higher-status and lower-status positions did not differ significantly for the two groups.

In summary, Theory X managers differed from Theory Y managers about the meaning of the concept worker, but not in their attitudes toward concepts related to the exercise of managerial power.

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CHAPTER I

INTRODUCTION

McGregor contrasted two sets of managerial assumptions about human nature which he labeled Theory X and Theory Y. McGregor suggested furthermore that these personal beliefs of managers form the basis for differing patterns of managerial behavior.¹ According to McGregor, managerial behavior is based on the manager's conception of management's function, and this conception rests on underlying beliefs concerning the average man.²

McGregor described Theory X as the conventional view of human beings which is erroneous because of its confusion of cause and effect. Due to the manager's belief that human beings are indolent, ambitionless, and irresponsible, he sees his own task as that of "directing their efforts, motivating them, controlling their actions, modifying their behavior to fit the needs of the organization."³ The manager's behavior, a parent-child relationship in transactional analysis terms, stimulates worker behavior which fits the Theory X preconceptions.⁴

¹Douglas McGregor, <u>The Human Side of Enterprise</u>, McGraw-Hill Book Co., New York, 1960, pp. 33-57.

²<u>Ibid</u>., p. 6.

³Douglas McGregor, "The Human Side of Enterprise," in Gene W. Dalton and Paul R. Lawrence, <u>Motivation and Control in Organization</u>, Richard D. Irwin, Inc., Homewood, Ill., 1971, p. 305.

⁴Thomas A. Harris, <u>I'm OK--You're OK</u>, Avon Books, New York, 1969, pp. 38-59.

McGregor based the Theory Y view of human beings on Maslow's need hierarchy theory. In this view, the worker is capable of selfdirection and self-control in the pursuit of objectives which satisfy his needs; the managerial task becomes that of creating opportunities, releasing potential, removing obstacles, encouraging growth, and providing guidance.⁵

McGregor's position on this issue can be summarized in the statements which follow. Supervisory style is dependent on one variable--the supervisor's view of human nature. Although authority is but one of the supervisory bases of power, the Theory X manager relies on authority to the exclusion of other forms of control. The Theory Y manager is more flexible in his use of bases of power. Although he does not relinquish his authority, he also relies on advice and persuasion.

No empirical studies were found to demonstrate a relationship between a Theory X-Theory Y orientation on the part of the manager and his conception of the manager's role. Because of the widespread interest in Theory X-Theory Y, a primary purpose of this research was to discover if these relationships exist. Because McGregor described supervisory behavior in terms of the kind of organizational power used, the next section is devoted to a brief review of the concept of organizational power in the literature.

⁵Mcgregor, <u>The Human Side of Enterprise</u>, p. 310.

BACKGROUND OF THE STUDY

Bertrand Russell described power as "the fundamental concept in social science, . . . in the same sense in which Energy is the fundamental concept in physics."⁶ Yet the concept of power has not been used as a fundamental variable in the literature of management. There are many possible reasons for this; some of the most salient will be briefly discussed below.

Power has connotations of inequity and even of evil in a society with the ideal of democratic egalitarianism. Galbraith stated, "Power presents awkward problems for a community which abhors its existence, disavows its possession, but values its exercise."⁷ Votaw discussed historical concepts of power which evoke unpleasant connotations: "naked power," described by Plato and Machiavelli, and exercised by the Nazis; the concept that power is evil, and can only be acquired or retained illegitimately; the concept that power must inevitably corrupt the possessor. These views of power regard it as fixed in quantity, split among the "rulers and the ruled."⁸ These views of power are particularly offensive to the people of a society which values democratic egalitarianism.

The . . . growth of an 'egalitarian ethic,' moreover led to the conception of power over people, of any sort, as evil.

⁶Bertrand Russell, <u>Power: A New Social Analysis</u>, W. W. Norton & Co., London, 1938, p. 12.

⁷John Kenneth Galbraith, <u>American Capitalism</u>, Houghton Mifflin Co., Boston, 1956, p. 26.

⁸Dow Votaw, "What Do We Believe About Power?" <u>California</u> <u>Management Review</u>, Vol. VIII (Summer, 1966), 74.

At the same time there was also engendered the further belief that power over things was the proper pursuit for man. The exponents of rugged individualism failed to realize that power over things meant power over people.⁹

In early management literature, power in economic organizations was viewed primarily as economic power, and although all forms of power present methodological problems in theorizing about them, economic power is perhaps easiest to deal with because units of money exist in which to measure it. Furthermore, the problem of power was simplified because early management literature was greatly concerned with the normative organization in which all power, delegated downward from the property holders, was considered to be legitimate power, or authority. Finally, a reason for the neglect of power is the difficulty in dealing with it. It is so basic a concept in the study of human behavior in organizations that Dahl likened it to a "bottomless swamp."¹⁰ After ten years of study, March labeled power a "disappointing variable."¹¹ Weber rejected power as too "comprehensive" a concept, and chose to deal with authority instead.¹² In so doing,

¹⁰Robert A. Dahl, "The Concept of Power," <u>Behavioral Science</u>, Vol. 2 (July, 1957), 201.

¹¹James G. March, "The Power of Power," paper read at American Political Science Association meeting, September, 1963, as cited in John Schopler, "Social Power," in Leonard Berkowitz (ed.), <u>Advances in</u> <u>Experimental Social Psychology</u>, Vol. 2, Academic Press, New York, 1965, 213.

¹²Max Weber, <u>The Theory of Social and Economic Organization</u>, The Free Press, Glencoe, II1., 1947, pp. 152-153.

⁹William V. D'Antonio and Howard J. Ehrlich (eds.), <u>Power</u> and <u>Democracy in America</u>, University of Notre Dame Press, Notre Dame, Ind., 1961, p. 146.

he failed to explain satisfactorily the process of legitimation, by which power becomes authority.¹³

In spite of the difficulties surrounding the concept of power, it is even more difficult to increase understanding of relationships in organizations without the consideration of a variable both basic and comprehensive. For example, Fiedler used "position power" of the leader as one of the three dimensions by which group-task situations can be characterized.¹⁴ Pelz found no relationship between employee satisfaction and style of supervision until an intervening variable was introduced--the amount of influence a supervisor has with his superior.¹⁵

The Bases of Power

Systematic study of power began in the 1950s. Many of the early studies were collected by Cartwright in his <u>Studies in Social</u> <u>Power</u>.¹⁶ Included in this collection is the classification by French and Raven of the bases of social power: reward power, coercive power, legitimate power, referent power, and expert power. Reward power is based on the knowledge of the subordinate that the leader has the means

¹³Peter M. Blau, "Critical Remarks on Weber's Theory of Authority," <u>American Political Science Review</u>, Vol. 57 (June, 1963), 305-316.

¹⁴Fred E. Fiedler, <u>A Theory of Leadership Effectiveness</u>, McGraw-Hill Book Co., New York, 1967, pp. 22-25.

¹⁵D. C. Pelz, "Influence: A Key to Effective Leadership in the First Line Supervisor," <u>Personnel</u>, Vol. 29 (1952), 22-25.

¹⁶Dorwin Cartwright (ed.), <u>Studies in Social Power</u>, Research Center for Group Dynamics, The University of Michigan, Ann Arbor, 1959.

to reward the subordinate for compliance. Coercive power is based on the subordinate's perception that the power-holder may punish him for non-compliance. Legitimate power rests on the belief of the subordinate that the command is just, or that the supervisor has the right to issue the order. Referent power derives from feelings of liking, admiration, and desire for identification with the supervisor. Expert power is based on the perception by the subordinate that the supervisor has access to and mastery of information which the subordinate does not have.¹⁷

This classification scheme of bases of power is useful in the characterization of supervisory styles. Scientific management stressed the bases of reward and coercion, with differential piece rates, and fines for machinery breakdowns. Referent power became important in the human relations movement, as the effect of the feelings of the individual toward his superiors and his work group was recognized. Management by objectives, as described by Drucker and McGregor, depends on expert power--the supervisor as trainer and teacher.

Power and Managerial Assumptions

McGregor viewed the managerial choice among power bases as directly related to the manager's belief in either Theory X or Theory Y.

¹⁷John R. P. French, Jr., and Bertram Raven, "The Bases of Social Power," in Dorwin Cartwright, <u>op</u>. <u>cit</u>., pp. 150-167. For other classifications of power bases, see: Herbert G. Hicks, <u>Organizations</u>: <u>A General Analysis</u>, Unpublished manuscript, Louisiana State University, Baton Rouge, La., 1973; Alan C. Filley and Robert J. House, <u>Managerial Process and Organizational Behavior</u>, Scott, Foresman and Company, Glenview, Ill., 1969, p. 60.

He associated managerial belief in Theory X with a heavy reliance on legitimate power:

The central principle of organization which derives from Theory X is that of direction and control through the exercise of authority.¹⁸

Conventional organization theory teaches us that power and authority are coextensive.¹⁹

McGregor asserted that the Theory Y manager believes that work is a natural activity to which man may bring his endowments of imagination, ingenuity, and creativity. Because of this managerial assumption, McGregor concluded, the Theory Y manager is not constrained in his reliance on positional power alone. Without abdicating authority,²⁰ he also uses other forms of influence, such as persuasion, and "help," defined as placing the "knowledge and skill" of the superior at the disposal of the subordinate for the accomplishment of individual and organizational goals.²¹ The latter form of influence is described as "a particularly important form of social influence."²²

Cartwright pointed out that McGregor offered no evidence for the theory that supervisory style is dependent on the supervisor's

¹⁹<u>Ibid</u>., p. 31. ²⁰<u>Ibid</u>., p. 56. ²¹<u>Ibid</u>., pp. 18-19. ²²<u>Ibid</u>., p. 19.

¹⁸McGregor, <u>The Human Side of Enterprise</u>, p. 49. McGregor seems to use authority in its hierarchical sense, based on position and on access to rewards and punishments, rather than as power legitimized by subordinates.

assumptions about human nature, and he cited Gilman's theory that the general "social and cultural environment" of an organization is a major determinant of the type of influence used within it.²³

In Haire's study of 3,641 managers from 14 countries, he did not find a relationship between belief in Theory X and belief in an authoritarian leadership style. While most managers surveyed disagreed with the belief that the average human being is capable of leadership and initiative, they tended to agree with statements descriptive of a democratic, participative leadership style.

Despite the wide variety of cultures represented in our sample, there was considerable similarity among the managers from these various countries on the major finding from this part of the questionnaire: The tendency to disagree with the belief that the average individual has a capacity for initiative and leadership, and, at the same time, a tendency to agree that the best methods of leadership are the democraticparticipative methods. . .

What is the meaning of this finding? In purely logical terms, positive attitudes in the first of our four areas of attitudes . .--capacity for initiative and leadership-would seem to be an essential foundation for positive attitudes in the other three areas dealing with leadership practices. The basic reason for adopting shared objectives, participation, and individual-oriented self-control is the argument that subordinates fully possess the necessary capabilities for leadership and responsibility.²⁴

Haire suggested two possible reasons for this disbelief in the capacity of human beings combined with belief in democratic leadership.

²³Dorwin Cartwright, "Influence, Leadership, Control," in J. G. March (ed.), <u>Handbook of Organizations</u>, Rand McNally & Co., Chicago, 1965, p. 14.

²⁴Mason Haire, Edwin E. Ghiselli, and Lyman W. Porter, <u>Managerial Thinking: An International Study</u>, John Wiley & Sons, Inc., New York, 1966, pp. 21-24.

First, the combination may result from superficial executive development programs, based on a cookbook approach to management which leaves untouched basic underlying assumptions about human nature. The second possibility is that although managers do not expect that subordinates have a substantive, ideological contribution to make, they may believe that a democratic style will reduce opposition to the supervisor. Thus, managers would be implementing what Raymond Miles labeled the "human relations" approach in contrast to the "human resources" approach.²⁵

Haire's finding is based on the first part of his instrument which had a high degree of face validity. Face validity is less in the second part of the instrument which uses a form of semantic differential to get cognitive descriptions of managerial concepts. Considerable intercultural differences were exhibited in descriptions of two concepts related to the exercise of power: <u>to direct</u> and <u>to persuade</u>. However, there was no attempt to relate this difference to the Theory X or Theory Y orientation of the manager as revealed by answers to Part I of the instrument, nor were the intercultural differences tested for statistical significance. Haire found that only about 28 per cent of the differences in attitudes of managers was associated with national origin; the differences among individuals were over twice as large as the differences among national groups.²⁶

²⁵Raymond E. Miles, "Human Relations or Human Resources," <u>Harvard Business Review</u>, Vol. 43 (July-August, 1965), 148-175.

²⁶Haire, Ghiselli, Porter, <u>op</u>. <u>cit</u>., p. 8.

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The present study, based on a survey of public utilities managers in the New Orleans area, attempts to relate differences in the meaning of managerial concepts to assumptions about the nature of human beings.

STATEMENT OF HYPOTHESES

The purpose of this empirical study is to clarify the relationship between belief in Theory X or Theory Y and attitude toward the supervisory role. As described above, McGregor theorized that the Theory X manager views managerial authority as the "central, indispensable means of managerial control."²⁷ If managerial attitudes toward authority and other forms of power are based on Theory X assumptions as opposed to Theory Y assumptions concerning man's capacities, there should be a measurable difference in the attitude of these two groups of managers toward concepts concerned with the exercise of managerial power on adjectival scales such as effective-ineffective, important-unimportant. The Theory X manager should differ significantly from the Theory Y manager in attitudes toward the different forms of managerial power. Managers who believe in Theory X should make little distinction between managerial authority and managerial power, since managerial authority is viewed as the most important form of managerial power. Managers who believe in Theory Y should make a greater distinction between managerial authority and managerial power, because managerial authority is only one form of managerial power.

²⁷McGregor, <u>The Human Side of Enterprise</u>, p. 18.

- Hypothesis 1: The attitudes toward power concepts of managers who believe in Theory X assumptions about human beings differ significantly from the attitudes of managers who believe in Theory Y assumptions.
- Hypothesis 2: Managers who believe in Theory X assumptions will make a significantly smaller distinction between managerial authority and managerial power than will managers who believe in Theory Y assumptions.

Since, according to Theory X, man is by nature lazy and will avoid work when he can, the supervisor may have to use coercion to get the work of the organization done.

Because of this human characteristic of dislike of work, most people must be coerced, controlled, directed, threatened with punishment to get them to put forth adequate effort toward the achievement of organizational objectives.²⁸

The Theory Y manager, on the contrary, expects that man will exercise self-direction and self-control in the pursuit of objectives to which he is committed. The supervisor's role need not be coercive; instead, it is theorized to be helpful.²⁹

Hypothesis 3: Managers who believe in Theory Y assumptions will make a significantly greater distinction between coercion and direction than will managers who believe in Theory X.

Theory Y is much more egalitarian than is Theory X. The Theory Y manager does not separate himself from the rest of mankind because of his assumed possession of rare qualities; he believes that creativity and imagination are common human qualities. He believes

²⁸McGregor, <u>The Human Side of Enterprise</u>, p. 34.
 ²⁹<u>Ibid</u>., p. 132.

that all men experience the same types of needs. His relationship with his subordinates is adult to adult rather than parent to child. 30

Hypothesis 4: Managers who believe in Theory X will make a significantly greater distinction between higher-status positions and lower-status positions than will managers who believe in Theory Y.

McGregor stated that managers who believe in Theory Y will rely on their knowledge as a power base. They will render help to their subordinates by placing this knowledge at the disposal of subordinates. This will be an important means of influence. Thus it is hypothesized that the Theory Y manager sees the managerial function of direction as related to the giving of advice. The Theory X manager believes that managerial direction is related to coercion.

- Hypothesis 5: Managers who believe in Theory Y assumptions will make a significantly greater distinction between direction and coercion than between direction and advice.
- Hypothesis 6: Managers who believe in Theory X will make a significantly greater distinction between direction and advice than between direction and coercion.

To summarize, the study was designed to determine the relationship, if any, between managerial attitudes toward human beings and managerial attitudes toward status and power concepts, and to test the following hypotheses:

Hypothesis 1: The attitudes toward power concepts of managers who believe in Theory X assumptions about human beings differ significantly from the attitudes of managers who believe in Theory Y assumptions.

30_{Harris, op. cit., pp. 89-122.}

- Hypothesis 2: Managers who believe in Theory X assumptions will make a significantly smaller distinction between managerial authority and managerial power than will managers who believe in Theory Y assumptions.
- Hypothesis 3: Managers who believe in Theory Y assumptions will make a significantly greater distinction between coercion and direction than will managers who believe in Theory X.
- Hypothesis 4: Managers who believe in Theory X will make a significantly greater distinction between higher-status positions and lower-status positions than will managers who believe in Theory Y.
- Hypothesis 5: Managers who believe in Theory Y assumptions will make a significantly greater distinction between direction and coercion than between direction and advice.
- Hypothesis 6: Managers who believe in Theory X will make a significantly greater distinction between direction and advice than between direction and coercion.

LIMITATIONS

The first limitation of this study is that the sample represents only the public utilities industry in the New Orleans area, and is not necessarily representative of managers of other industries and other areas. Therefore caution should be exercised in generalizing without replication.

The study seeks to clarify the relationship between attitudes toward the managerial task, and attitudes toward human beings. Factors in the organizational environment which might affect the manager's conception of the managerial role are not explored.

Finally, because the study is designed to explore attitudes

rather than to observe behavior, the relationship between managerial attitudes and actual practice is outside the scope of this study.

PREVIEW

Chapter II describes the experimental design, the instrument, and the methodology used in analysis of the data. The results of the study are presented in Chapter III. In Chapter IV, the findings are analyzed and compared with the hypotheses, and conclusions are drawn. Implications for managers and suggestions for future research are discussed.

CHAPTER II

PROCEDURAL OVERVIEW

In order to test the hypotheses listed above, the respondents were divided into Theory X and Theory Y groups based on the extent of their agreement with a series of statements representing Theory X or Theory Y assumptions. Next, attitudes toward thirteen managerial concepts concerned with power and status were explored with the use of the semantic differential. Raw scores on nine adjectival scales were factor analyzed to extract the semantic dimensions of meaning. The rotated factor matrix was used to convert raw scores into factor scores, which were then compared to determine the differences between the two groups in the meanings of the concepts.

The effect of familiarity with McGregor's Theory X-Theory Y concept was tested to determine if familiarity with the concept caused subjects to give a "correct" Theory Y response.

THE SUBJECTS

Questionnaires were distributed to all managers in the local offices of the non-governmental public utilities companies. Thus the conclusions reached are valid only for utilities managers in this area. Replication is advisable before generalization to managers in other areas and other industries.

The personnel departments of the four public utilities were

contacted by telephone. An appointment for a personal visit was made with the personnel director, or his delegated representative. In the interview, participation was requested for a survey of managerial attitudes toward leadership concepts. Three of the firms gave immediate approval and offered full cooperation in distribution of the questionnaires to managers in the central offices. The fourth firm also offered full cooperation after approval of the chief operating officer was secured.

Questionnaires were personally delivered to the designated contact in the personnel department. Each questionnaire contained a pre-addressed return envelope to protect the anonymity of the individual respondent. Address labels were coded so that the firm of the respondent could be identified.³¹

Company size ranged from less than 500 to over 5,000 employees. One of the companies had fewer than 500 employees, and one had more than 5,000. The remaining two companies each employed between 500 and 4,999 people. The number of questionnaires distributed to each company ranged from 23 to 60.

Of the 177 questionnaires distributed, the useable response rate was 78.5 per cent. Of the 80.2 per cent return rate, 2.1 per cent of the total distributed were incomplete and therefore were not used. The response rate was unusually high, perhaps because of a deliberate

³¹The firm was not used as a variable in this study because of a promise by the researcher that results would not be tabulated by individual organization.

intent of the researcher to increase the response rate by reducing the amount of biographical data requested.

The biographical data which was furnished by the subjects is shown in Tables I through IV.

TABLE I

LEVELS OF SUPERVISION ABOVE THAT OF THE RESPONDENT

Levels above respondents	0	1	· 2	3	4	5	6	7
Frequency	1	14	40	53	18	6	3	4

TABLE II

AGE OF RESPONDENTS

Age	Under 30	30-39	40-49	50-59	60 or more
Frequency	13	27	54	39	6

TABLE III

SPECIALTIES OF SUBJECTS

Specialty	Frequency
No undergraduate university or Sechnical school	23
Accounting	20
Management	5
Other business majors, including Economics	19
Scientific and Technical	54
Miscellaneous	18

TABLE IV

Specialty	Frequency
No graduate education	107
Accounting	2
Management	4
Other business, including M.B.A.'s	15
Scientific and Technical	6
Law	3
Miscellaneous	2
Total number of subjects	139

GRADUATE SPECIALTIES OF SUBJECTS

THE QUESTIONNAIRE

The data in this study were collected by means of the questionnaire shown in Appendix A. Each subject received a copy of the questionnaire prefaced by the cover letter which requested the subject's participation, explained the time demands and the purposes of the survey, and assured the confidentiality of the replies.

Part I of the instrument is the Robinson-Turner set of statements representative of Theory X or Theory Y assumptions about human beings.³² Statements representative of the Theory X position are:

³²This part of the instrument was adapted from that used by James W. Robinson and James T. Turner, "An Empirical Investigation of the Theory Y Management--Theory X Union Hypothesis," in <u>Mississippi</u> <u>Valley Journal of Business and Economics</u>, Vol. 8 (Spring, 1973), 77-84. Instructions for completion of this section are from a similar questionnaire used by Haire, Ghiselli, Porter, <u>op._cit.</u>, p. 186.

- 1. The average human being has an inherent tendency to avoid work.
- 4. People will accept rewards and demand continually higher ones, but these alone will not produce the necessary effort to get a job done. There must be some sort of threat of punishment.
- 6. The average human being has relatively little ambition and wants job security above all else.
- 8. The average human being wishes to avoid responsibilities at his place of work.
- 10. The average human being probably prefers to be directed in his work.

Statements representative of the Theory Y position are:

- 2. The capacity to exercise a relatively high degree of imagination, ingenuity, and creativity in the solution of organizational problems is widely, not narrowly, distributed in the population.
- 3. Under the conditions of modern industrial life, the intellectual potentialities of the average human being are only partially utilized.
- 5. Commitment to organizational objectives is a function of the rewards associated with their achievement.
- 7. External control and the threat of punishment are not the only means for bringing about effort toward organizational objectives. Man will exercise self-direction and self-control in the service of objectives to which he is committed.
- 9. The expenditure of physical and mental effort in work is as natural as play or rest.
- 11. The average human being learns, under proper conditions, not only to accept but to seek responsibility.

This part of the instrument was used to determine the orientation of the manager toward Theory X or Theory Y by his expression of agreement or disagreement with each statement. A Likert-type scale was used with five positions: Strongly Agree, Agree, Undecided, Disagree, Strongly Disagree.

The Robinson-Turner questionnaire was used here instead of the similar and more widely-known Haire, Ghiselli, and Porter instrument because the latter includes questions concerning leadership style as well as questions concerning attitudes toward people.³³ This study was designed with attitudes toward people as the independent variable elicited in Part I of the instrument, and attitudes toward types of leadership as dependent variables elicited in Part II.

Part II of the instrument uses a form of the semantic differential to measure managerial attitudes toward concepts of power. The semantic differential was selected because of two of its advantages: it is difficult for respondents to attempt to answer "correctly;" and responses give multidimensioned measures of attitudes or meanings.³⁴

Thirteen concepts were selected for rating on nine bipolar adjectival, seven-point scales. The number of scales and concepts was limited by the desired maximum time of twenty minutes for a respondent's completion of the questionnaire. The guidelines recommended by Osgood were followed in the selection process.³⁵

Ten of the concepts represent managerial power and uses of power:

³⁵<u>Ibid.</u>, pp. 1-30 for a discussion of the logic of semantic differentiation.

^{33&}lt;sub>Ibid</sub>.

³⁴Charles E. Osgood, George J. Suci, and Percy H. Tannenbaum, <u>The Measurement of Meaning</u>, University of Illinois Press, Urbana, 111., 1957.

to	persuade
to	direct
to	reprimand ³⁶
to	reward
to	coerce

managerial influence managerial authority managerial power rules and regulations

One concept was selected to represent power exerted up the organizational hierarchy:

employee influence

Two concepts represented low- and high-status positions in an organizational hierarchy:

worker boss

• The nine scales were chosen to represent the three most significant factors revealed in Osgood's analyses: the evaluation, potency, and activity factors:³⁷

Evaluation

Potency

Activity

fair-unfair	strong-weak	active-passive
important-unimportant	severe-lenient	difficult-easy
successful-unsuccessful	effective-ineffective	fast-slow

The typical semantic differential format with seven steps per scale was used. In order to reduce the thickness of the questionnaire, and thus increase the response rate, the concepts were typed two per page.

The third and last section of the instrument requested

³⁶The concepts to persuade, to direct, and to reprimand were used by Haire, op. cit., p. 41.

³⁷Osgood, Suci, and Tannenbaum, <u>op. cit.</u>, pp. 53-61. Instructions for the completion of this part of the questionnaire were adapted from those used by Haire, Ghiselli, and Porter, <u>op. cit.</u>, p. 190.

biographical data from the subjects. A minimum of biographical data was requested in the hope that the response rate would thereby be increased. Questions were asked concerning the subject's hierarchical position in the organization, approximate age, educational background, and prior exposure to the Theory X-Theory Y concept. Possibly identifying information not requested included sex, exact age, department, and job title or classification.

PROCESSING THE DATA

As each questionnaire was received, it was assigned a threedigit number, of which the first digit represented the respondent's organization and the remaining two digits were sequential for each organization. Responses to the questions were coded and recorded in the margins of the questionnaires.

Responses to the five-step scale in Part I of the questionnaire were scored from one to five so that the smaller score denoted a Theory X response and the larger score a Theory Y response. Total score on Part I was obtained by summarizing the scores on each answer for each respondent. The results are reported in Chapter III.

Part II of the questionnaire was scored by attributing integer values ranging from one to seven to the seven steps of the nine adjectival scales. The larger values were assigned to the following poles: fair, important, successful, strong, severe, effective, active, difficult, and fast. The nine ratings by a subject for one concept were punched on one card. The last card for each subject contained the coded data from Parts I and III of the questionnaire. Thus the data

for each subject were contained in a fourteen-card deck, one card for each concept, the fourteenth containing biographical information and responses to the questions on Part I of the instrument. The threedigit control number, and the total score on Part I were punched on all cards in a subject's deck.

The three-dimensional data matrix of 1,807 observations from Part II was used as input to a factor analysis program which summed over subjects and concepts. First, a correlation matrix was computed, showing the relationship between the nine scales. The principal component method of factor analysis was used to obtain a matrix of factor loadings. Unity was used as an estimate of communality in the principal diagonal of the correlation matrix.³⁸ The criterion used for cessation of factor extraction was the eigenvalue-one criterion.³⁹ The factor matrix was rotated using the varimax method to yield an orthogonally rotated factor matrix.

The rotated factor matrix was used to compute common factor score regression estimates.⁴⁰ A data file was made containing the three factor scores for each subject on each concept.

The mean and median factor scores for each group of subjects on each concept were computed.⁴¹ The semantic distances between

⁴¹The computer program used for this part of the data analysis was the Stat Pack V3 developed at Western Michigan University.

³⁸R. J. Rummel, <u>Applied Factor Analysis</u>, Northwestern University Press, Evanston, 1970, pp. 318-320.

³⁹<u>Ibid</u>., p. 356.

⁴⁰Ibid., pp. 437-441.

concepts were calculated using Osgood's formula.⁴² The data were analyzed to determine the following:

1. The significance of association between exposure to McGregor's Theory X-Theory Y concept and belief in Theory Y.

The significance of association between belief in Theory
 X or Theory Y and the meaning of each concept.

3. The significance of association between belief in Theory X or Theory Y and the semantic distance between the concepts managerial authority and managerial power.

4. The significance of association between belief in Theory X or Theory Y and the semantic distance between the concepts <u>to coerce</u> and <u>to direct</u>.

5. The significance of interaction between belief in Theory X or Theory Y and the semantic distance between the concepts <u>worker</u> and <u>boss</u>.

6. The significance of the difference in distances between the concepts to direct and to coerce and the concepts to direct and to advise for each group.

The results of these analyses are reported in the next chapter.

⁴²Osgood, Suci, Tannenbaum, <u>op</u>. <u>cit</u>., p. 91.

CHAPTER III

THE RESULTS OF THE STUDY

Using the procedures described in the previous chapter, each subject received a score on Part I, indicating belief in Theory X or Theory Y, and a thirteen by three matrix of scores, containing three factor scores on each of the thirteen concepts. In this chapter, the results of an analysis of these data are presented. Interpretations of the results and conclusions drawn from them are presented in the next chapter.

THEORY X-THEORY Y ORIENTATION

In Table V in the appendix to this chapter are shown the mean scores for the items on Part I of the questionnaire. Items were scored so that larger values indicate greater agreement with Theory Y assumptions; smaller values indicate greater agreement with Theory X assumptions. The item having the largest mean score is Item 3:

> 3. Under the conditions of modern industrial life, the intellectual potentialities of the average human being are only partially utilized.

From the frequency distribution, it can be seen that 91 subjects received a score of "4" on this item, meaning "Agree," and 35 subjects received a score of "5," meaning "Strongly Agree." Three subjects were undecided, while only ten expressed disagreement with this statement.

The median score for most items was 4.00, indicating that the

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majority of the subjects agreed with Theory Y assumptions, or disagreed with Theory X assumptions. There were two statements on which the majority took Theory X positions. Most subjects disagreed with Item 2:

2. The capacity to exercise a relatively high degree of imagination, ingenuity, and creativity in the solution of organization problems is widely, not narrowly, distributed in the population.

The second item on which the most of the sample agreed with Theory X assumptions is Item 10:

10. The average human being probably prefers to be directed in his work.

Of 139 useable replies, 112 subjects scored 34 or more, indicating a Theory Y orientation. Six subjects were undecided, and 21 had a Theory X orientation.

FACTOR ANALYSIS

As a preliminary step in factor analysis, the product moment correlation matrix was computed and is shown in Table VI in the appendix to this chapter. It can be seen from the first column of the table that the variables important, strong, fair, successful, and effective correlate significantly. It will be shown below that these adjectives describe the first factor.

The unrotated factor loading matrix is shown in Table VII, and the orthogonally rotated factor loading matrix in Table VIII.

Using the criterion that eigenvalues had to have a minimum value of one, three factors emerged from the analysis. These three factors account for 71.08 per cent of the total variance among the variables. It can also be seen from Table VIII that the first factor

is much more influential than the other two. The first factor accounts for more than three times as much variance as do either of the remaining two factors.

The factor loadings are the correlations between the variables and the factors. The square of the loading gives the proportion of the variance of a variable that is accounted for by the factor. For example, the highest loading is that for the scale difficulty-easy on the third factor, where the factor loading is -0.9355. The square of the loading indicates that 87.5 per cent of the variance in the difficult-easy scale can be explained by the third factor. Since the difficult-easy scale was initially scored with seven for the difficult end of the scale, and one for the easy end, the negative loading shows that the factor is associated with the adjective "easy."

The communality, or h^2 , shows the proportion of the variance of a variable that is attributable to the three common factors. The uniqueness of a variable is $(1-h^2)$. The scales strong-weak and activeinactive have the smallest communalities.

The matrix of regression coefficients used to calculate factor scores is shown in Table IX. The matrix is the product of the inverse of the correlation matrix (Table VI) and the rotated factor loading matrix (Table VIII).⁴³ Factor scores for each subject on each concept were obtained by multiplying the matrix of regression coefficients by the standardized data matrix.⁴⁴

⁴³Rummel, op. cit., pp. 437-441. 44_{Ibid}.

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EFFECT OF FAMILIARITY WITH THEORY X-THEORY Y

Table X shows a contingency table used to test whether groups exposed to McGregor's Theory X-Theory Y concept differed significantly in their assumptions of Theory X or Theory Y. With a chi-square of 3.712, the difference between the groups exposed to the concept, not exposed to the concept, and with no memory of exposure is not significant at the .10 level of confidence. Therefore the contingency table was collapsed into two groups, Group X and Group Y for the remaining tests of hypotheses.

The mean factor scores on each concept for Groups X and Y are shown in Tables XI and XII. In order to test the significance of the difference in meaning of the concepts to the two groups, the chi-square test was used. Since the factors, the three dimensions of semantic space, are independent due to orthogonal rotation, the chi-squares computed for the separate dimensions using factor scores were summed into an overall chi-square test of significance.⁴⁵ These results are presented in Table XIII; contingency tables for each concept on each factor are shown in Tables XIV through LII in the appendix to this chapter.

COMPARISON OF THE MEANING OF ALL CONCEPTS TO GROUPS X AND Y

The first objective of this study was to determine if a significant difference existed in attitudes toward power concepts between

⁴⁵Osgood, Suci, Tannenbaum, <u>op</u>. <u>cit</u>., p. 100.

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managers who believed in Theory X and those who believed in Theory Y. This difference was hypothesized because McGregor wrote that assumption of Theory X or Theory Y would result in different patterns of managerial behavior. If the results of the study substantiated Hypothesis 1, the chi-squares summed over the three factors should indicate a significant difference in the meaning of each concept to the two groups.

Table XIII shows first that the two groups do differ significantly in the meaning of the concept <u>worker</u>. The difference is significant at the .01 level of significance.⁴⁶ However, the two groups do not differ in the meaning of any other concept at the .05 level of significance.

The difference in meaning of the concept <u>to direct</u> approached a level of significance with a probability of .096. Two other concepts, <u>employee influence</u> and <u>to advise</u> had probabilities of .152 and .124 respectively.

Thus, an overall comparison of the meaning of the concepts to the two groups shows only one significant difference, i.e., that which was the criterion for separation into two groups, a different attitude toward the concept worker.

⁴⁶Statistical tables used are from Sidney Siegel, <u>Nonpara-</u> <u>metric Statistics for the Behavioral Sciences</u>, McGraw-Hill Book Co., New York, 1956.

COMPARISON ON THE DISTANCES BETWEEN THE CONCEPTS <u>MANAGERIAL</u> <u>AUTHORITY</u> AND <u>MANAGERIAL</u> <u>POWER</u> FOR THE TWO GROUPS

The distances between mean factor scores on each pair of concepts for each group are shown in Tables LIII and LIV. Hypothesis 2 suggested that Group X and Group Y would differ significantly in the semantic distance between the concepts <u>managerial authority</u> and <u>managerial power</u>. This was based on the theory that managerial authority, although just one kind of managerial power, is much more important to the Theory X manager than to the Theory Y manager who uses many types of managerial power. The significance of the difference in distances was tested using the median test. The results of this test are shown in Table LV. There was no significant difference in distances between the concepts for the two groups of managers.

COMPARISON OF THE DISTANCES BETWEEN THE CONCEPTS TO DIRECT AND TO COERCE FOR THE TWO GROUPS

It was hypothesized that managers who believe in Theory X might find that the managerial role required the exercise of coercion in the supervision of subordinates. Hypothesis 3 stated that managers who believe in Theory Y would make a greater distinction between <u>to</u> <u>coerce</u> and <u>to direct</u> than would managers who believed in Theory X. Table LVI shows an almost identical distribution pattern in the two groups above and below the median distance of the combined groups. Thus, there is no significant difference in the distances between the concepts <u>to direct</u> and <u>to coerce</u> for the two groups.

COMPARISON OF THE DISTANCES BETWEEN THE CONCEPTS WORKER AND BOSS FOR THE TWO GROUPS

The manager who believes in Theory X is more likely to believe that the distribution of characteristics such as intelligence, ambition, and creativity is narrowly, not widely distributed in the population. Therefore Hypothesis 4 suggests that the Theory X manager will make a greater distinction in the difference between the high- and low-status positions, worker and boss, than will the Theory Y manager. It was reported above that the two groups did differ significantly on the concept worker.

Table LVII shows that there was no significant difference in the distances between the concepts for the two groups.

COMPARISON OF THE DISTANCES BETWEEN THE CONCEPTS <u>TO DIRECT</u> AND <u>TO COERCE</u> AND THE CONCEPTS <u>TO DIRECT</u> AND <u>TO ADVISE</u> FOR THE TWO GROUPS

Hypotheses 5 and 6 both concern intragroup comparisons of the semantic distances between the pairs of concepts <u>to direct</u> and <u>to</u> <u>coerce</u> and the concepts <u>to direct</u> and <u>to advise</u>. Hypothesis 5 predicts that Group Y will make a smaller distinction between the concepts <u>to</u> <u>direct</u> and <u>to advise</u> than between the concepts <u>to direct</u> and <u>to coerce</u>. Hypothesis 6 predicts that the opposite will be true for Group X, i.e., the distance between the concepts <u>to direct</u> and <u>to advise</u>.

The results are shown in Table LVIII. The relative distances between the pairs of concepts was as predicted for those managers believing in Theory Y. The level of significance of the test approached 0.0.

For Group X, however, the relative distances between the pairs of concepts was in the opposite direction from that predicted. Like Group Y, the great majority of Theory X managers placed the concept <u>to</u> <u>coerce</u> farther from the concept <u>to direct</u> than they placed the concept <u>to advise</u>. Had Hypothesis 6 correctly predicted the direction of the difference for Theory X managers, the one-tailed probability of the results would be 0.004.⁴⁷

SUMMARY OF RESULTS

- Hypothesis 1: The attitudes toward power concepts of managers who believe in Theory X assumptions about people differ significantly from the attitudes of managers who believe in Theory Y assumptions.
- Results: There was no significant difference between the two groups on any of the concepts related to the exercise of power. Three concepts approached an acceptable level of significance: to direct, employee influence, and to advise. The two groups differed significantly about the concept worker.
- Hypothesis 2: Managers who believe in Theory X assumptions will make a significantly smaller distinction between <u>managerial</u> <u>authority</u> and <u>managerial</u> <u>power</u> than will managers who believe in Theory Y assumptions.
- Results: There was no significant difference in the meaning of the two concepts to the two groups.
- Hypothesis 3: Managers who believe in Theory Y assumptions will make a significantly greater distinction between coercion and direction than will managers who believe in Theory X.
- Results: There was no significant difference in the distances between the concepts for the two groups.

47_{1bid.}, p. 250.

- Hypothesis 4: Managers who believe in Theory X will make a significantly greater distinction between higher-status positions and lower-status positions than will managers who believe in Theory Y.
- Results: Although the groups differed significantly in the meaning of the concept worker, there was no significant difference in the meaning of the concept <u>boss</u>. The difference in the semantic distances between the concepts for the two groups was not significant.
- Hypothesis 5: Managers who believe in Theory Y assumptions will make a significantly greater distinction between the concepts to direct and to coerce than between the concepts to direct and to advise.
- Hypothesis 6: Managers who believe in Theory X will make a significantly greater distinction between the concepts to direct and to advise than between the concepts to direct and to coerce.
- Results: The results supported the prediction of Hypothesis 5 that managers who believe in Theory Y make a significantly greater distinction between direction and coercion that between direction and advice. However, Theory X managers do also. Hypothesis 6 was not substantiated.

APPENDIX TO CHAPTER III

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TABLE V

STATISTICS ON PART I

Item*	1**	2	3	4	5	Mean Score	Median Score	Mode	Standard Deviation
Itém 1	1	38	4	85	11	3.48	4.0	4.0	1.0
Item 2	21	78	11	24	5	2.38	2.0	2.0	1.05
Item 3	0	10	3	91	35	4.09	4.0	4.0	0.75
Item 4	4	37	9	70	19	3.45	4.0	4.0	1.11
Item 5	2	22	15	93	.7	3.58	4.0	4.0	0.87
Item 6	3	25	8	86	17	3.64	4.0	4.0	0.99
Item 7	2	5	6	107	19	3.98	4.0	4.0	0.68
Item 8	2	38	8	80	11	3.43	4.0	4.0	1.02
Item 9	1	37	9	81	11	3.46	4.0	4.0	0.99
Item 10	7	86	11	33	2	2.55	2.0	2.0	~ 0,96
Item 11	1	17	5	103	13	3.79	4.0	4.0	0.80
		fean Media		mple Sample		.81 .0	Standard Minimum S		n 4 <u>52</u> 28.0

*The items on Part I of the questionnaire are in Appendix A.

**"1" indicates strong agreement with Theory X assumption or strong disagreement with Theory Y assumption.

TABLE VI

CORRELATION MATRIX

	Scale	1	2	3	4	5	6	7	8	9
(1)	important-unimportant	1.000								
(2)	difficult-easy	-0.007	1.000							
(3)	strong-weak	0.506	0.001	1.000						
(4)	fair-unfair	0.654	-0.032	0.538	1.000					
(5)	successful-unsuccessful	0.625	-0.087	0.582	0.709	1.000				
(6)	severe-lenient	-0.109	0.171	0.016	-0.162	-0.090	1.000			
(7)	fast-slow	0.256	-0.106	0.346	0.302	0.373	0.117	1.000		
(8)	effective-ineffective	0.618	-0.079	0.571	0.692	0.799	-0.094	0.400	1.000	
(9)	active-passive	0.359	-0.051	0.453	0.454	0.471	0.087	0.404	0.548	1.00

TABLE VII

Scales	Factor 1	Factor 2	Factor 3	h ²
important	0.7668	-0.1245	-0.2523	.6671
difficult	-0.0900	0.4988	-0.7881	.8780
strong	0.7460	0.1322	-0.0663	.5784
fair	0.8348	-0.1511	-0.1830	.7533
successful	0.8748	-0.0800	-0.0565	.7748
severe	-0.0841	0.8594	0.1377	.7646
fast	0.5289	0,3265	0.4888	.6252
effective	0.8845	-0.0496	-0.0220	.7853
active	0.6702	0.2706	0.2189	.5703
Per cent of Tot Variance	al 45.92	13.69	11.47	71.08
Per cent of Common Varia	64.61 nce	19.26	16.14	100.01*
Eigenvalues	4.13298	1.23187	1.03209)

FACTOR LOADING MATRIX (UNROTATED)

*The sum exceeds 100% due to rounding error.

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TABLE VIII

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Scales	Factor 1	Factor 2	Factor 3	h ²
important- unimportant	0.8114	-0.0746	-0.0564	.6671
difficult- easy	0.0230	0.0489	-0.9355	.8780
strong- weak	0.7247	0.2294	-0.0248	.5784
fair- unfair	0.8660	-0.0522	0.0253	. 7533
successful- unsuccessful	0.8707	0.0756	0.1046	. 7748
severe- lenient	-0.2034	0.7903	-0.3140	.7646
fast- slow	0.3769	0.6119	0.3298	.6252
effective- ineffective	0.8697	0.1198	0.1206	.7853
active- inactive	0.5765	0.4663	0.1431	.5703
er cent of Tot Variance	al 44.05	14.44	12.59	71.08
er cent of Common Varian	61.97 ace	20.32	17.71	100.00

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ORTHOGONALLY ROTATED FACTOR LOADING MATRIX

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TABLE IX

Scales	1	Factors 2	3
important-unimportant	0.2423	-0.1643	-0.1369
difficult-easy	0.0943	-0.0076	-0.8594
strong-weak	0.1773	0.0982	-0,0845
fair-unfair	0.2466	-0.1487	-0.0662
successful-unsuccessful	0.2242	-0.0401	0.0123
severe-lenient	-0.1230	0.6610	-0.2300
fast-slow	-0.0030	0.4734	0.2946
effective-ineffective	0.2168	-0.0028	0.0293
active-passive	0.0896	0.3198	0.0961

MATRIX OF REGRESSION COEFFICIENTS USED IN THE CALCULATION OF FACTOR SCORES*

*This matrix is the product of the inverse of the correlation matrix (Table VI) and the rotated factor loading matrix (Table VIII). See Rummel, <u>op</u>. <u>cit</u>., pp. 437-441.

TABLE	X
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	Theory X	Oriented*	Theory Y Oriented		
	Number of Responses	Percent of Total	Number of Responses	Percent of Total	
Exposed to X-Y Concept	5	3.60	42	30.22	
Not Exposed to X-Y Concept	15	10.79	51	36.69	
No Memory of Exposure	7	5.04	19	13.67	

X-Y ORIENTATION AND EXPOSURE TO X-Y CONCEPT

*Includes all respondents with raw scores of 33 and below to Part I of questionnaire.

Chi Square = 3.712 which has a probability of .15. Therefore exposure to Theory X-Y is not significant.

TABLE XI

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Concept	Factor 1	Factor 2	Factor 3
Worker	1482	2521	1750
To persuade	.3751	2696	3232
To direct	.1801	.1500	2003
Rules and Regulations	.0449	.0124	1322
To reprimand	.1204	.1914	4480
Managerial influence	.4211	0918	.0362
To reward	.3612	- .1375	1.1137
Boss	.2854	.2915	1751
Managerial authority	.2015	.1514	1628
To coerce	-1.6741	.8530	- .0178
Managerial power	2362	.2998	1063
Employee influence	1360	4549	.0624
To ad vise	.2901	.0062	.3955

THEORY X ORIENTED GROUP MATRIX OF MEAN FACTOR SCORES

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TABLE XII

Concept	Factor 1	Factor 2	Factor 3
Worker	0.0048	-0.2350	0.1655
To persuade	0.2208	-0.2316	-0.0771
To direct	0.2334	0.2168	0.2402
Rules and regulations	0.1268	-0.0458	-0.1944
To reprimend	0.0279	0.0747	-0.6176
Managerial influence	0.2894	-0.2003	-0.0773
To reward	0.3192	-0.0729	0.8597
Boss	0.2686	0.1780	-0.1582
Managerial authority	0.3779	0.0809	-0.1002
To coerce	-1.7624	0.5476	-0.1063
Managerial power	-0.1307	0.1894	-0.0450
Employee influence	-0.1407	-0.3733	0.1171
To advise	0.2199	-0,2425	0.2364

THEORY Y ORIENTED GROUP MATRIX OF MEAN FACTOR SCORES

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Concept	Facto	r 1	Factor	2	Factor	: 3	Total	
	x ²	<u>P</u> *	χ ²	P*	x ²	P*	χ ² χ	<u>P</u> *
Worker	1.473	.23	0.349	. <u>\$</u> 5	5.478	. 02	7.300	.007
To persuade	0.006	.94	0.227	.63	0.906	.34	1.138	.286
To direct	0.002	.97	0.029	.87	2.2745	.10	2.775	.096
Rules and regulations	0.304	.58	0.105	.75	0.768	.38	1.178	.278
To reprimand	0.160	.69	0.058	.81	0.000	1.00	0.218	.640
Managerial influence	0.227	.63	0.105	.75	0.105	.75	0.437	.508
To reward	0.023	.88	0.059	.81	0.641	.42	0.723	.395
Boss	0.304	.58	0.227	.63	0.029	.87	0.560	.454
Managerial authority	1.056	.30	0.027	.87	0.006	. 94	1.089	.297
To coerce	0.023	.88	0.160	.69	0.227	.63	0.410	.522
Managerial power	0.023	.88	0.000	1.00	0.001	.97	0.024	.876
Employee influence	2.039	.15	0.009	. 92	0.006	.94	2.054	.152
To advise	0.160	.69	2.152	.14	0.059	.81	2.371	.124

SUMMATION OF CHI-SQUARE TESTS OF SIGNIFICANCE FOR ALL CONCEPTS

TABLE XIII

*Exact probabilities associated with the chi squares were obtained using the program "PROB" from the Statistical Package of the Western Michigan University Computer Center, with one degree of freedom.

TABLE XIV

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	Group X	Group Y	Total
No. of scores below combined median*	13	53	66
No. of scores above combined median	7	59	66
Total	20	112	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>WORKER</u> ON FACTOR 1

Chi Square = 1.473 with Degrees of Freedom = 1 and probability of occurrence of 0.23.

*The median factor score on the concept worker is -0.0229.

TABLE XV

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	Group X	Group Y	Total
No. of scores below combined median*	12	52	64
No. of scores above combined median	9	58	67
Total	21	110	131

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT WORKER ON FACTOR 2

Chi Square = 0.3492 with 1 degree of freedom having a probability of 0.55.

*The median factor score for the concept worker is -0.3011.

TABLE XVI

	Group X	Group Y	Total
No. of scores below			
combined median*	16	51	67
No. of scores above			
combined median	5	61	66
Total	21	112	133

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT WORKER ON FACTOR 3

Chi Square = 5.478 with 1 degree of freedom having a probability of 0.02.

*The median factor score for the concept worker is 0.1192.

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TABLE XVII

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO PERSUADE ON FACTOR 1

	Group X	Group Y	Total
No. of scores below combined median*	10	55	65
No. of scores above combined median	11	56	67
Total	21	111	132

Chi Square = .0057 with Degrees of Freedom = 1 and probability of occurrence of 0.94.

*The median factor score for the concept to persuade is 0.2958.

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TABLE XVIII

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO PERSUADE ON FACTOR 2

	Group X	Group Y	Total
No. of scores below combined median*	12	54	66
No. of scores above combined median	9	57	66
Total	21	111	132

Chi Square = 0.2265 with 1 degree of freedom having a probability of 0.63.

*The median factor score for the concept to persuade is -0.2243.

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TABLE XIX

	Group X	Group Y	Total
No. of scores below combined median*	13	53	66
No. of scores above combined median	8	58	66
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO PERSUADE ON FACTOR 3

Chi Square = 0.9060 with 1 degree of freedom having a probability of 0.34.

*The mean factor score for the concept to persuade is -0.2844.

TABLE XX

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	Group X	Group Y	Total
No. of scores below combined median*	10	55	65
No. of scores above combined median	11	55	66
Total	21	110	131

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO DIRECT ON FACTOR 1

Chi Square = 0.00146 with 1 degree of freedom having a probability of 0.97.

*The mean factor score for the concept to direct is 0.2370.

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TABLE XXI

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO DIRECT ON FACTOR 2

	Group X	Group Y	Total
No. of scores below combined median*	10	55	65
No. of scores above combined median	10	57	67
Total	20	112	132

Chi Square = 0.0286 with 1 degree of freedom having a probability of 0.87.

*The median factor score for the concept to direct is 0.1229.

TABLE XXII

	Group X	Group Y	Tota l
No. of scores below combined median*	14	49	63
No. of scores above		-	
combined median	7	62	69
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO DIRECT ON FACTOR 3

Chi Square = 2.7445 with 1 degree of freedom having a probability of 0.10.

*The median factor score for the concept to direct is 0.0832.

TABLE XXIII

	Group X	Group Y	Total
No. of scores below combined median*	12	53	65
No. of scores above combined median	9	58	67
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>RULES</u> <u>AND</u> <u>REGULATIONS</u> ON FACTOR 1

Chi Square = 0.3044 with 1 degree of freedom having a probability of 0.58.

*The median factor score for the concept is 0.2802.

TABLE XXIV

	Group X	Group Y	Total
No. of scores below combined median*	12	56	68
No. of scores above combined median	9	55	64
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT RULES AND REGULATIONS ON FACTOR 2

Chi Square = 0.1054 with 1 degree of freedom having a probability of 0.75.

*The median factor score for the concept is -0.0953.

TABLE XXV

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THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT RULES AND REGULATIONS ON FACTOR 3

	Group X	Group Y	Total
No. of scores below combined median*	8	57	65
No. of scores above combined median	1 3	54	67
Total	21	111	132

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Chi Square = 0.7678 with 1 degree of freedom having a probability of 0.38.

*The median factor score for the concept is -0.1852.

TABLE XXVI

Group X	Group' Y	Ťota l
	<u> </u>	
9	56	65
12	55	67
·		<u> </u>
21	111	132
	9 12	9 56 12 55

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO REPRIMAND ON FACTOR 1

Chi Square = 0.1602 with 1 degree of freedom having a probability of occurrence of 0.69.

*The median factor score for the concept is 0.2067.

TABLE XXVII

	Group X	Group Y	Total
No. of scores below combined median*	11	57	68
No. of scores above combined median	8	53	61
Total	19	110	129

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO REPRIMAND ON FACTOR 2

Chi Square = 0.0581 with 1 degree of freedom having a probability of 0.81.

*The median factor score for the concept is 0.2029.

TABLE XXVIII

	Group X	Group Y	Total
No. of scores below combined median*	10	56	66
No. of scores above combined median	11	55	66
[otal	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO REPRIMAND ON FACTOR 3

Chi Square = 0.0000 with 1 degree of freedom having a probability of 1.00.

*The median factor score for the concept is -0.6160.

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TABLE XXIX

	Group X	Group Y	Total
No. of scores below combined median*	9	57	66
No. of scores above combined median	12	54	66
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL</u> <u>INFLUENCE</u> ON FACTOR 1

Chi Square = 0.2265 with 1 degree of freedom having a probability of 0.63.

*The median factor score for the concept is 0.4014.

TABLE XXX

	Group X	Group Y	Total
No. of scores below combined median*	12	56	68
No. of scores above combined median	9	55	64
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL INFLUENCE</u> ON FACTOR 2

Chi Square = 0.1054 with 1 degree of freedom having a probability of 0.75.

*The median factor score for the concept is -0.1623.

TABLE XXXI

THEORY	X-THEORY	Y ORIENTAT	CION AND	ATTIT	JDE TOWARD
THE	CONCEPT M	ANAGERIAL	INFLUENC	<u>ce</u> on i	FACTOR 3

	Group X	Group Y	Total
No. of scores below combined median*	9	55	64
No. of scores above combined median	12	56	68
Total	21	111	132

Chi Square = 0.1054 with 1 degree of freedom having a probability of 0.75.

*The median factor score on the concept is -0.2302.

TABLE XXXII

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO REWARD ON FACTOR 1

	Group X	Group Y	Total
No. of scores below the combined median*	10	58	68
No. of scores above combined median	11	53	64
Total	21	111	132

Chi Square = 0.0230 with 1 degree of freedom having a probability of 0.88.

*The median factor score for the concept is 0.4423.

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TABLE XXXIII

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THEORY X-THEORY Y ORIENTATION AND, ATTITUDE TOWARD THE CONCEPT TO REWARD ON FACTOR 2

	Group X	Group Y	Total
No. of scores below			
combined median*	11	55	66
No. of scores above			
combined median	9	57	66
Total	20	112	132

Chi Square = 0.0589 with 1 degree of freedom having a probability of 0.81.

*The median factor score for the concept is -0.0969.

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TABLE XXXIV

	Group X	Group Y	Total
No. of scores below			<u> </u>
combined median*	8	56	64
No. of scores above combined median	13	55	68
Tota l	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO REWARD ON FACTOR 3

Chi Square = 0.6413 with 1 degree of freedom having a probability of 0.42.

*The median factor score for the concept is 0.9977.

TABLE XXXV

THEORY	X-THEORY	Y Y ORIE	NTATION	AND	ATTITUDE	TOWARD
	The	CONCEPT	BOSS OF	N FAC	CTOR 1	

	Group X	Group Y	Total
No. of scores below combined median*	12	53	65
No. of scores above combined median	9	58	67
Total	21	111	132

Chi Square = 0.3044 with 1 degree of freedom having a probability of 0.58.

*The median factor scores for the concept is 0.4309.

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TABLE XXXVI

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT BOSS ON FACTOR 2

	Group X	Group Y	Total
No. of scores below combined median*	9	57	66
No. of scores above combined median	12	54	66
Total	21	111	132

Chi Square = 0.2265 with 1 degree of freedom having a probability of 0.63.

*The median factor score for the concept is 0.1082.

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TABLE XXXVII

	Group X	Group Y	Total
No. of scores below combined median*	9	56	65
No. of scores above combined median	11	56	67
Total	20	112	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT BOSS ON FACTOR 3

Chi Square = 0.0286 with 1 degree of freedom having a probability of 0.87.

*The median factor score for the concept is -0.1451.

TABLE XXXVIII

	Group X	Group Y	Total
No. of scores below combined median*	13	52	65
No. of scores above combined median	8	59	· 67
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL</u> <u>AUTHORITY</u> ON FACTOR 1

Chi Square = 1.0561 with 1 degree of freedom having a probability of 0.30.

*The median factor score for the concept is 0.4280.

TABLE XXXIX

	Group X	Group Y	Total
No. of scores below combined median*	9	47	56
No. of scores above combined median	12	65	77
Total	21	112	133

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL</u> <u>AUTHORITY</u> ON FACTOR 2

Chi Square = 0.0271 with 1 degree of freedom having a probability of 0.87.

*The median factor score on the concept is 0.0461.

TABLE XL

	Group X	Group Y	Total
No. of scores below combined median*	11	54	65
No. of scores above combined median	10	57	67
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL AUTHORITY</u> ON FACTOR 3

Chi Square = .0057 with 1 degree of freedom having a probability of 0.94.

*The median factor score on the concept is -0.2793.

TABLE XLI

	Group X	Group Y	Total
No. of scores below combined median*	11	57	68
		27	
No. of scores above combined median	10	54	64
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO COERCE ON FACTOR 1

Chi Square = 0.0230 with 1 degree of freedom having a probability of 0.88.

*The median factor score on the concept is -1.9844.

TABLE XLII

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO COERCE ON FACTOR 2

	Group X	Group Y	Total
No. of scores below combined median*	9	56	65
No. of scores above combined median	12	55	67
Total	21	111	132

Chi Square = 0.1602 with 1 degree of freedom having a probability of 0.69.

*The median factor score on the concept is 0.4565.

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TABLE XLIII

THEORY X-THEORY Y ORI	ENTATION AND	ATTITUDE TOWARD
THE CONCEPT <u>1</u>	O COERCE ON	FACTOR 3

	Group X	Group Y	Total
No. of scores below combined median*	12	54	66
No. of scores above combined median	9	57	66
Total	21	111	132

Chi Square = 0.2265 with 1 degree of freedom having a probability of 0.63.

*The median factor score on the concept is -0.3544.

TABLE XLIV

	Group X	Group Y	Total
No. of scores below			
combined median*	11	53	64
No. of scores above			
combined median	10	58	68
Fota l	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL POWER</u> ON FACTOR 1

Chi Square = 0.0230 with 1 degree of freedom having a probability of 0.88.

*The median factor score on the concept is -0.0759.

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TABLE XLV

	Group X	Group Y	Total
No. of scores below combined median*	10	56	66
No. of scores above combined median	11	55	66
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>MANAGERIAL</u> <u>POWER</u> ON FACTOR 2

Chi Square = 0.0000 with 1 degree of freedom having a probability of 1.00.

*The median factor score on the concept is 0.1471.

TABLE XLVI

THEORY X	-THEORY	Y ORIENTATI	ON AND	ATTITUDE	TOWARD
THE	CONCEPT	MANAGERIAL	POWER	ON FACTO	R 3

	Group X	Group Y	Total
No. of scores below combined median*	10	57	67
No. of scores above combined median	11	55	66
Total	21	112	133

Chi Square = 0.0014 with 1 degree of freedom having a probability of 0.97.

*The median factor score on the concept is -0.0415.

TABLE XLVII

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>EMPLOYEE INFLUENCE</u> ON FACTOR 1

	Group X	Group Y	Total
No. of scores below combined median*	14	52	66
No. of scores above combined median	7	59	66
Total	21	111	132

Chi Square = 2.0386 with 1 degree of freedom having a probability of 0.15.

*The median factor score for the concept is -0.1978.

TABLE XLVIII

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THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>EMPLOYEE INFLUENCE</u> ON FACTOR 2

	Group X	Group Y	Total
No. of scores below combined median*	11	; 57	68
No. of scores above combined median	9	55	64
Total	20	112	132

Chi Square = 0.0092 with 1 degree of freedom having a probability of 0.92.

*The median factor score on the concept is -0.2867.

TABLE XLIX

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT <u>EMPLOYEE INFLUENCE</u> ON FACTOR 3

	Group X	Group Y	Tota 1
No. of scores below combined median*	11	54	65
No. of scores above combined median	10	57	67
Total	21	111	132

Chi Square = 0.0057 with 1 degree of freedom having a probability of 0.94.

*The median factor score for the concept is -.0381.

TABLE L

	Group X	Group Y	Total
No. of scores below combined median*	9	56	65
No. of scores above combined median	1 2	55	67
Total	21	111	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO ADVISE ON FACTOR 1

Chi Square = 0.1602 with 1 degree of freedom having a probability of 0.69.

*The median factor score for the concept is 0.3017.

TABLE LI

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THEORY	X-TH	EORY	Y ORI	EN	TATION	AND	ATTITUDE	TOWARD
	THE	CONC	EPT <u>1</u>	<u>o</u>	ADVISE	ON	FACTOR 2	

	Group X	Group Y	Total
No. of scores below combined median*	7	59	66
No. of scores above combined median	14	51	65
Total	21	110	131

Chi Square = 2.1522 with 1 degree of freedom having a probability of 0.14.

*The median factor score for the concept is -0.2182.

TABLE LII

	Group X	Group Y	Total
No. of scores below combined median*	9	57	66
No. of scores above combined median	11	55	66
Total	20	112	132

THEORY X-THEORY Y ORIENTATION AND ATTITUDE TOWARD THE CONCEPT TO ADVISE ON FACTOR 3

Chi Square = 0.0589 with 1 degree of freedom having a probability of 0.81.

*The median factor score for the concept is 0.3251.

TABLE LIII

SEMANTIC DISTANCES BETWEEN CONCEPTS FOR THEORY X ORIENTED GROUP

- <u></u>		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(1)	worker	0.5442	0.5197	0.3303	0.5860	0.6280	1.3904	0.6954	0.5341	1.8907	0.5631	0.3124	0.7644
(2)	to persuade		0.4788	0.4744	0.5413	0.4036	1.4430	0.5872	0.4828	2.3565	0.8631	0.6666	0.7745
(3)	to direct			0.2046	0.2582	0.4153	1.3572	0.1782	0.0432	1.9914	0.4523	0.7313	0.6228
(4)	rules and regulations				0.3708	0.4251	1.2941	0.3709	0.2115	1.9170	0.4028	0.5376	0.5820
(5)	to reprimand					0.6365	1.6140	0.3343	0.2992	1.9604	0.5056	0.8625	0.8802
(6)	managerial influence						1.0802	0.4582	0.3834	2.2991	0.7783	0.6656	0.3949
(7)	to reward							1.3605	1.3184	2,5306	1.4270	1.2055	0.7358
(8)	boss								0.1638	2.0445	0.5262	0.8895	0.6381
(9)	managerial authority									2.0078	0.4656	0.7295	0.5837
(10)	to coerce										1.5433	2.0206	2.1787
(11)	managerial power											0.7797	0.7843
(12)	employee influence												0.7108
(13)	to advise												

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TABLE LIV

SEMANTIC DISTANCES BETWEEN CONCEPTS FOR THEORY Y ORIENTED GROUP

		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(1)	worker	0.3248	0.5117	0.4246	0.8424	0.3757	0.7790	0.5873	0.5564	1.9518	0.4928	0.2065	0.2265
(2)	to persuade		0.5494	0.2390	0.6505	0.0754	0.9552	0.4203	0.3505	2.1310	0.5494	0.4341	0.3137
(3)	to direct			0.5188	0.8934	0.5271	0.6892	0.4018	0.3940	2.0525	0.4634	0.7094	0.4595
(4)	rules and regulations				0.4509	0.2531	1.0719	0.2674	0.2966	1.9821	0.3794	0.5252	0.4827
(5)	to reprimand					0.6602	1.5129	0.5289	0.6247	1.9210	0.6051	0.8768	0.9310
(6)	managerial influence						0.9460	0.3874	0.2957	2.1841	0.5739	0.5027	0.3241
(7)	to reward							1.0495	0.9739	2.3773	1.0439	0 .9 236	0.6535
(8)	boss								0.1573	2.0650	0.4152	0.7398	0.5787
(9)	managerial authority									2.1906	0.5230	0.7228	0.4928
(10)	to coerce										1.6717	1.8783	2.1613
(11)	managerial power											0.5857	0.6234
(12)	employee influence												0.4017
(13)	to advise												

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TABLE LV

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THEORY X-THEORY Y ORIENTATION AND SEMANTIC DISTANCE BETWEEN THE CONCEPTS MANAGERIAL AUTHORITY AND MANAGERIAL POWER

	Group X	Group Y	Tota1
No. of scores below combined median*	9	56	65
No. of scores above combined median	12	55	67
Total	21	111	132

Chi Square = 0.1602 with 1 degree of freedom having a probability of 0.69.

*The median difference in distances between the concepts <u>managerial</u> <u>authority</u> and <u>managerial</u> <u>power</u> for the combined groups is 1.1071.

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TABLE LVI

THEORY X-THEORY	Y ORIENTATION A	ND SEMANTIC DISTANCE
BETWEEN THE	CONCEPTS TO DIR	ECT AND TO COERCE

	Group X	Group Y	Total
No. of scores below combined median*	10	54	64
No. of scores above combined median	11	57	68
Total	21	111	132

Chi Square = 0.0075 with 1 degree of freedom having a probability of 0.88.

*The median difference in distances between the concepts to direct and to coerce for the combined groups is 2.7337.

TABLE LVII

THEORY X-THEORY Y ORIENTATION AND DIFFERENCE IN SEMANTIC DISTANCES BETWEEN THE CONCEPTS <u>WORKER</u> AND <u>BOSS</u>

	Group X	Group Y	Total
No. of scores below combined median*	10	56	66
No. of scores above combined median	11	55	66
Total	21	111	132

Chi Square = 0.0566 with 1 degree of freedom having a probability of 1.000.

*The median difference in distances between the concepts worker and boss is 1.4144.

TABLE LVIII

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THE SIGN TEST OF THE SEMANTIC DISTANCES BETWEEN THE CONCEPTS <u>TO DIRECT</u> AND <u>TO ADVISE</u> AND THE CONCEPTS <u>TO DIRECT</u> AND <u>TO COERCE</u>

	Group X*	Group Y**
Frequency of negative	*******	
distances***	4	18
Frequency of positive	1	
distances	17	94
		110
Total	21	112

*Using the one-tailed probabilities associated with the binomial distribution for samples under 25, p exceeds .987.

**Due to the sample size of Group Y, the normal approximation to the binomial distribution was used. With a continuity correction of +.5, z = -7.087, and one-tailed <u>p</u> approaches 0.0. See Siegel, <u>op</u>. <u>cit</u>., pp. 68-75.

***A negative distance means that the distance between to direct and to coerce is less than the distance between to direct and to advise.

CHAPTER IV

DISCUSSION, CONCLUSIONS, AND SUGGESTIONS FOR

RESEARCH DIRECTIONS

The results of the factor analysis of the data and the statistical significance of the comparisons between the groups were presented in the last chapter. In this chapter, an interpretation of these results will be presented and conclusions will be drawn based on the interpreted results. The significance to management of this study will be discussed. Finally, directions for future research will be suggested.

FACTOR LABELS

The process of naming factors which emerge from factor analysis is a somewhat subjective activity dependent upon the perspective of the researcher. For the purposes of this study the descriptive approach to factor naming has been chosen rather than the causal. Although, as Rummel pointed out, descriptive labels contain surplus meaning into which readers may put irrelevant connotations,⁴⁸ this criticism can be made of the name of anything.⁴⁹ For the purposes of simplifying communication and stimulating interest, descriptive names

⁴⁸Rummel, <u>op</u>. <u>cit</u>., p. 474.

49 William V. Haney, <u>Communication and Organizational Behavior</u>, Richard D. Irwin, Inc., 1973, pp. 296-299.

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are helpful. The three factors in this study have been named the hero factor, the guillotine factor, and the ease factor. These names were selected to be descriptive of the poles of the scales with which the factors are most highly correlated. Thus the hero factor correlates with the adjectives: successful, effective, fair, important, and strong. As shown in Chapter III, the three factors accounted for 71.08 per cent of the total variance among the scale ratings.

The hero factor is by far the most significant; it accounted for 44.05 per cent of the total variance. Since Part II of the instrument is concerned primarily with attitudes, it is not surprising that a factor evaluative in nature accounted for so much of the total variance. As Osgood pointed out, ". . . they [attitudes] are predispositions to respond, but they predispose toward an evaluative response."⁵⁰ The scales most highly loaded on this factor in the order of their loadings are: successful (.87), effective (.87), fair (.87), important (.81), and strong (.72). Since these loadings are all above 0.70, 50 per cent or more of the variance in these scale ratings is attributable to this first factor. The scales successful, fair, and important were chosen for inclusion to be representative of Osgood's evaluation factor. However, two other scales, strong and effective, which Osgood found to be highly loaded on the potency factor rather than on the evaluation factor were also highly loaded on the hero factor. The difference between the results of factor analysis in

⁵⁰Osgood, Suci, Tannenbaum, <u>op</u>. <u>cit</u>., p. 189.

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this study, and in those of Osgood may be due to the process of conceptscale interaction which Osgood describes.⁵¹ Since <u>attitudes</u> about <u>power</u> concepts are being measured, the evaluative scale becomes more important while at the same time, scales usually associated with potency tend to interact with evaluative scales.

The second factor has been labeled the guillotine factor since the only two scales which have high loadings on this factor are the scales severe and fast. Only one scale has a high loading on the third factor, and since the loading is negative, the factor is associated with the "easy" end of the difficult-easy scale.

In the section which follows, the most significant factor scores will be interpreted with the help of the descriptive factor names.

INTERPRETATION OF MEAN FACTOR SCORES

A reexamination of Tables XI and XII shows that both groups rate three concepts negatively on the hero factor: <u>to coerce</u>, <u>managerial power</u>, and <u>employee influence</u>. This is interpreted to mean that both groups evaluated these concepts as unsuccessful, ineffective, unimportant, weak, unfair, <u>i.e.</u>, as unheroic. The concept, <u>to coerce</u>, has the largest negative loading on this factor; coercion as a means of supervision is evaluated negatively. That <u>managerial power</u> is included in this group might be surprising were it not for the negative connotations of the word <u>power</u> referred to in Chapter I above.⁵²

⁵¹<u>Ibid</u>., p. 187. ⁵²Votaw, <u>op</u>. <u>cit</u>., p. 74.

Slaughter found similar differences in the rating of managerial power (negative) and managerial influence (positive), although the terms are used synonymously in the literature.⁵³

It might be expected that believers in Theory Y would evaluate <u>employee influence</u> more positively. This rating may be a pragmatic judgment of its small importance in the organizations involved in the study. This result is difficult to interpret without further research.

Group Y rated the concept <u>worker</u> at almost zero on the heroic factor; Group X rated <u>worker</u> negatively, although, as shown in Table XIII, the difference in the ratings of the two groups was not significant on this factor.

Both groups evaluated the following concepts positively on the first factor: <u>to persuade</u>, <u>to direct</u>, <u>managerial influence</u>, <u>to reward</u>, <u>boss</u>, <u>managerial authority</u>, and <u>to advise</u>. The concepts <u>rules and</u> <u>regulations and to reprimand</u> also had small positive mean factor scores. This can be interpreted to mean that both groups regard the different bases of managerial power as useful, and, as Table XIII shows, with no significant differences. As stated in Chapter III, there is no substantiation for Hypothesis 1.

The concept to coerce has much the highest score on the guillotine factor for both groups. Other concepts which both groups rated positively on this factor are: to direct, to reprimand, boss,

⁵³William S. Slaughter, III, <u>A Study of Personal Value Systems</u> of <u>Managers in the Banking Industry as Related to Age and Position</u>, Unpublished Ph.D. dissertation, Louisiana State University, Baton Rouge, La., 1973, p. 89.

managerial authority, and managerial power, meaning that all of these concepts are associated with the adjectives severe and fast. There were no significant differences between the two groups in rating any concept on the guillotine factor. However, the difference in the ratings of the concept <u>to advise</u> approached a significant level with p = .14. The Theory Y managers rated the concept negatively; Theory X managers rated the concept almost zero. An interpretation of this difference is conjectural; Theory Y managers rate the process of advising as more lenient and slower, perhaps meaning that they better understand its nature. Theory X managers on the contrary may find advising more similar to directing.

In regard to the third factor, it can be seen from Tables VII and VIII that one of the effects of rotating the factor matrix was to increase the absolute value of the loading of the difficult-easy scale on the third factor, while reducing its loadings on the first two factors. In the orthogonally rotated matrix shown in Table VIII, none of the scales that have high loadings on the first factor have loadings of any appreciable absolute size on the third factor. Furthermore, the difficult-easy scale has a negligible loading on the first two factors.

The interpretation of the loadings on the first two factors and the third factor is that the subjects did not find a relationship between the facility with which a form of managerial power is exercised and its effectiveness, its importance, its fairness, its severity, or its speed. Whether a concept is difficult or easy was perceived as irrelevant to its evaluation.

The only significant difference in the rating of a concept on the third factor by the two groups is in the rating of the concept worker. Group Y associates the concept worker with the adjective easy; Group X associates worker with the adjective difficult.⁵⁴ This seems to mean that Group X believes the worker is more difficult, to supervise or to relate to, than the managers in Group Y believe the worker to be.

MANAGERIAL ATTITUDES TOWARD THE WORKER'S PLACE IN THE ORGANIZATION

A profile of managerial attitudes toward workers and work can be sketched by synthesizing the answers of the majority of the subjects to Part I of the instrument. As Table V shows, while most managers believe that the capacity to exercise creativity and imagination is narrowly distributed in the population, they also believe that the organization uses even less of an individual's potentialities than he has available. Thus the organization is not viewed as an environment in which the average man can achieve self-actualization.

Most managers in the sample believe that the expenditure of energy in work is a natural function which the average man does not seek to avoid. They believe that he will exercise self-direction and self-control if he is committed to the objectives of the organization. However, since they also believe that he prefers to be directed, the inference is that the average man is not committed to the objectives

54See Table XIII.

of the organization. The majority of the sample expressed faith in the Theory Y assumption: under "proper" conditions, workers will not only accept, but will seek responsibility.

As Table X shows, 80.58 per cent of the subjects tended to believe in Theory Y, while only 33.82 per cent of the subjects were familiar with the concept of Theory X-Theory Y. If Theory X is the conventional view of workers which has been largely replaced by Theory Y, these results seem to show that the human relations movement has influenced the thinking even of those managers with no formal training in its precepts.

It is also possible that managerial attitudes have been influenced by the nature of the industry. The public utilities industry is capital-intensive.⁵⁵ Thus labor costs tend to be a relatively small proportion of total costs. Capital-intensive industries are noted for high wages and large fringe benefits.⁵⁶ It is possible that managerial attitudes might be more Theory Y oriented in such a situation, although no studies supporting this relationship are known.

ATTITUDES TOWARD MANAGERIAL ROLE PERF RMANCE

Managerial attitudes toward workers seem to show the influence of the human relations movement; the origin of managerial beliefs about

⁵⁵William M. Capron (ed.), <u>Technological Change in Regulated</u> <u>Industries</u>, The Brookings Institution, Washington, D.C., 1971, pp. 3-5.

⁵⁶Roy B. Helfgott, <u>Labor Economics</u>, Random House, N. Y., 1974, pp. 259-262. See also <u>Characteristics of Agreements Covering 1,000</u> <u>Workers or More July 1, 1972</u>, Bulletin 1784, Bureau of Labor Statistics, U. S. Dept. of Labor, 1973.

the exercise of managerial power can only be conjectured. If the assumption of the rational manager is made, then one would assume that beliefs about human nature would be an important determinant of attitudes toward the managerial role. As shown in Chapter III, this association was not significant. Before looking for an explanation of this inconsistency on the part of the manager, the assumption of his rationality will be temporarily relaxed.

According to this theory of levels of transmission of culture, the manager learns formally and informally, as well as technically, within his organization. The attitudes he adopts toward his role as a leader are strongly influenced by the organization's do's and don't's,

⁵⁷Edward T. Hall, <u>The Silent Language</u>, Fawcett Publications, Inc., Greenwich, Conn., 1966, pp. 63-92.

and by the superiors whose role performances he imitates. Regardless of the beliefs about workers of the Theory X manager, his attitudes toward his job and his performance of it are likely to be influenced by his peers. To return to the assumption of his rationality, his survival in the organization may be dependent on his adopting organizationally approved attitudes and behavior.

Further evidence for the importance of the relationship between the type of organization and managerial authority patterns will be presented in the next section.

CONTINGENCY THEORY AND MANAGERIAL AUTHORITY STRUCTURE

Stanley J. Udy, the sociologist, examined the relationship between technology variables and organization structure variables for over 400 organizations in 150 different non-industrial societies from data in the Human Relations Area Files. Udy found a strong association between technology and organization structure;

Thus there exists a striking relationship between technological complexity and authority structure, which appears to hold independently of type of process or social setting. Technological complexity seems to lead to bureaucratic structure in non-industrial systems in much the same way as in industrial systems.⁵⁸

From a knowledge of technological factors, Udy found it possible to predict organization and authority structure variables.

Comparable results were obtained by Joan Woodward and her

⁵⁸Stanley J. Udy, Jr., <u>Organization of Work: A Comparative</u> <u>Analysis of Production Among Non-Industrial Peoples</u>, Human Relations Area Files Press, New Haven, 1959, p. 38.

associates in showing the effect of production systems on successful management practices in an industrial society.⁵⁹

Lawrence and Lorsch related organizational variables to the environment of a firm, and the constraints imposed by the environment. Classical theory with its emphasis on centralized managerial authority and bureaucratic practices is associated with successful organizations having certain common characteristics: a relatively slow rate of growth, little innovation in products or processes, stability in the rate of change of sales, little price competition, and product similarity within the industry. Lawrence and Lorsch selected the container industry for their study, but the described characteristics seem as applicable to the public utilities industry, at least until the recent past.⁶⁰

Of the three industries studied by Lawrence and Lorsch, the successful organization in the container industry had the most inequitable distribution of influence from the top to the bottom of the hierarchy, with high influence on decisions at the top, and very little influence at low levels. The results described here are in agreement with those of Lawrence and Lorsch, as Tables XI and XII both show. Both groups rated <u>employee influence</u> negatively on the first, evaluation-potency factor, while rating <u>managerial influence</u> positively. As stated above, all concepts concerned with the exercise of managerial

⁵⁹Joan Woodward, <u>Industrial</u> <u>Organization</u>: <u>Theory and Practice</u>, Oxford University Press, London, 1965.

⁶⁰Paul R. Lawrence and Jay W. Lorsch, <u>Organization and Environ-</u> ment, Richard D. Irwin, Inc., Homewood, Ill., 1969, pp. 85-96.

influence were rated positively on this first factor, with the exception of <u>to coerce</u> and <u>managerial power</u>. These results are interpreted to show the strong dependence on the managerial hierarchy of managers in a stable, non-competitive industry.

The implications for management of the results of this study will be discussed in the section which follows.

IMPLICATIONS FOR MANAGEMENT

The results of this study seem to indicate that basic assumptions about people are irrelevant to the manager's attitude toward his role performance, at least in the area of supervision. The implications of this irrevelance are that Theory X-Theory Y orientation can be ignored in the selection process. Furthermore, executive development programs can be designed which minimize attempts to change underlying assumptions of the trainees, and can focus instead on the encouragement of managerial practices associated with success in the specific organization.

The phrase "one best way" has had an influence on management thought since the time of Taylor and Gilbreth, and practicing managers often appear to be eager to apply indiscriminately the latest theory. This study offers indirect support for the multivariate approach recommended by Lawrence and Lorsch.⁶¹ McGregor postulated a univariate basis for managerial behavior. It appears likely today that individual and organizational relationships are far more complex than originally supposed.

⁶¹<u>Ibid.</u>, pp. 2-3.

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SUGGESTIONS FOR FURTHER RESEARCH

As a direct outgrowth of this study, its replication in industries with different characteristics would provide opprotunities to test the contingency approach to managerial attitudes. Theory X-Theory Y orientation, as well as cognitive descriptions of managerial forms of influence, could be compared.

Because of the objectives of this study, the concepts used were all associated with power and status. Research directed at interindustry comparison of managerial attitudes might include as well such concepts as to create, to innovate, to compete, to bargain collectively, to arbitrate, etc.

Further research possibilities present themselves if the technique of Q-factor analysis is employed rather than the R-factor analysis used in this study.⁶² Basically, Q-technique involves a transpose of the data matrix resulting in an extraction of factors that represent clusters of similar concepts, or clusters of similar subjects, rather than clusters of variables (scales) as in R-technique. Q-factor analysis might be usefully employed in interindustry comparisons of managers.

Finally, this research has been directed at the relationship between attitudes toward people and attitudes toward supervising them. The relationship between attitudes and behavior has not been explored here. This area appears to be a fertile one for the development of research projects.

⁶²Rummel, <u>op</u>. <u>cit</u>., pp. 194-197.

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SUMMARY

The primary objective of this research study was to test the relationship between Theory X or Theory Y orientation of managers and their attitudes toward the exercise of power. The subjects were 139 managers in the public utilities industry in the New Orleans area. The managers were drawn from four companies, and represented all hierarchical levels.

Theory X-Theory Y Orientation of the Managers

In spite of the fact that only 33.82 per cent of the managers were familiar with McGregor's Theory X-Theory Y concept, 80.58 per cent expressed more agreement with Theory Y than with Theory X. Exposure to the Theory X-Theory Y concept had no significant effect on Theory Y orientation. Although the median score showed a Theory Y skewness, the majority of the subjects agreed that imagination, ingenuity, and creativity are narrowly distributed in the population. The majority also believed that the average human being prefers to be directed in his work. However, the greatest concensus was with the statement that organizations underutilize the intellectual capacities of the average human being.

The Results of Factor Analysis

The semantic differential was used to measure attitudes toward thirteen power and status concepts which the subjects rated on nine bipolar, adjectival, seven-step scales. The raw data was factor analyzed using the principal component method, and orthogonal rotation

of the factor matrix. Three factors emerged from the analysis: the <u>hero</u> factor which correlated highly with the scales successful-unsuccessful, effective-ineffective, fair-unfair, important-unimportant, and strong-weak; the <u>guillotine</u> factor which correlated highly with the scales severe-lenient and fast-slow; the <u>ease</u> factor which correlated with the scale easy-difficult.

Comparison of the Attitudes of Group X and Group Y

Mean and median factor scores for each group on each concept were calculated. The only significant difference in the attitudes of the Theory X oriented managers was that they regarded workers as more difficult than did Theory Y oriented managers. The difference in attitudes of the two groups toward three concepts approached a significant level: to direct, employee influence, and to advise.

There was no significant difference in the attitudes of the two groups toward the concepts <u>managerial authority</u> and <u>managerial power</u>. Both groups evaluated <u>managerial authority</u> as heroic, and <u>managerial</u> <u>power</u> as unheroic. All other power concepts were evaluated positively by the two groups on the first factor except the concepts <u>to coerce</u> and <u>employee influence</u>, which both groups evaluated negatively.

Although there was a significant difference in the attitudes of the two groups toward the concept <u>worker</u>, there was no significant difference in the semantic distance between the pairs of concepts <u>worker</u> and <u>boss</u> for the two groups.

Both groups perceived a significantly greater semantic distance

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between the concepts to direct and to coerce than between the concepts to direct and to advise.

In conclusion, no evidence was found to support McGregor's theorized relationship between assumptions about human beings and attitudes toward the supervisory role for managers in this sample. Implications for management are that basic assumptions about people do not significantly affect managerial concepts of supervision.

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APPENDIX A

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LOUISIANA STATE UNIVERSITY IN NEW ORLEANS

LAKE FRONT

NEW ORLEANS, LOUISIANA 70122

Those of us who work or teach in the field of business often make assumptions and generalizations about managerial attitudes and thinking. This survey is designed to obtain more information about managerial attitudes toward people and the supervision of people.

Your participation in this survey will take about twenty minutes of your time. There are no right or wrong answers. I am interested only in your opinions in response to the questions asked.

This survey is part of a research project which is one of the requirements for the Ph.D. degree at Louisiana State University in Baton Rouge. I am a faculty member at Louisiana State University in New Orleans.

Your replies will be entirely confidential. Your name is not requested. In order to further preserve the confidentiality of your reply, a minimum of biographical data is requested.

Should you have any questions concerning the survey, I will be most happy to answer them. You may contact me in the Department of Management and Marketing, LSUNO, 288-3161, Extension 481.

Thank you very much for your assistance in the completion of this project. A stamped self-addressed envelope is enclosed.

Yours most sincerely,

Alma L. Hammett Instructor in Management 110

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Part I

In the section below you will see a series of statements. Please indicate your agreement or disagreement. Use the scale below each statement. For example:

It is easier to work in cool weather than in hot.

::	X		·	::
Strongly	Agree	Undecided	Disagree	Strong1y
Agree				Disagree

If you think it is easier to work in cool weather, put an (X) above "Agree"; if you think it is much easier to work in cool weather, put an (X) above "Strongly Agree." If you think it doesn't matter, put a mark above "Undecided" and so on. Put your mark in a space, not on the boundaries.

There are no right or wrong answers. We are interested in your opinion about the statements which follow.

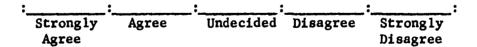
1. The average human being has an inherent tendency to avoid work.

•	•	•	•	• •
·	*		•	••
Strongly	Agree	Undecided	Disagree	Strongly
	0			•••
Agree				Disagree

2. The capacity to exercise a relatively high degree of imagination, ingenuity, and creativity in the solution of organization problems is widely, not narrowly, distributed in the population.

:	:	:		::
Strongly	Agree	Undecided	Disagree	Strongly
Agree				Disagree

3. Under the conditions of modern industrial life, the intellectual potentialities of the average human being are only partially utilized.



4. People will accept rewards and demand continually higher ones, but these alone will not produce the necessary effort to get a job done. There must be some sort of threat of punishment.

:	:	:	:	::
Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

5. Commitment to organizational objectives is a function of the rewards associated with their achievement.

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Strongly	Agree	Undecided	Disagree	Strongly
Agree				Disagree

1

6. The average human being has relatively little ambition and wants job security above all else.

:	•	:	:	:;
Strongly	Agree	Undecided	Disagree	Strongly
Agree				Disagree

7. External control and the threat of punishment are not the only means for bringing about effort toward organizational objectives. Man will exercise self-direction and self-control in the service of objectives to which he is committed.

:	:	::		:;
Strongly	Agree	Undecided	Disagree	Strongly
Agree				Disagree

8. The average human being wishes to avoid responsibilities at his place of work.

:	:	•		:;
Strongly	Agree	Undecided	Disagree	Strongly
Agree				Disagree

9. The expenditure of physical and mental effort in work is as natural as play or rest.

:	:	;;		::
Strongly	Agree	Undecided	Disagree	Strongly
Agree			0	Disagree

10. The average human being probably prefers to be directed in his work.

•	•	•	•	•	
*	*	•	•	*	•
Strongly	Agree	Undecided	Disagree	Strongly	
0-10-5-5		01140014004	21049100	0010-0-5	
Agree				Disagree	
				Drugree	

11. The average human being learns, under proper conditions, not only to accept but to seek responsibility.

•	•	•	•	• •	,
*	*	*	•	••	
Strongly	Agree	Undecided	Disagree	Strongly	
0010.019		Underface	Promproc	00100519	
Agree				Disagree	
				DIGGECC	

Part II

The purpose of this questionnaire is to obtain your impressions of a variety of things or ideas. For example, at the bottom of this page is the word WORKER. You are to give your impression of what this means to you by placing an X on each of a series of scales which appear beneath it. Each of the scales is defined by a pair of words. Place an X on each scale in one of the seven spaces which most accurately describes the particular thing or idea, <u>in your</u> <u>opinion</u>. The following example illustrates how you might mark the scales for a particular thing or idea.

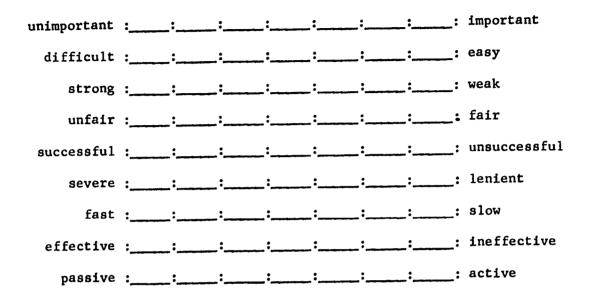
large :____: X :____: small
unenjoyable :____: M :____: enjoyable
Please be sure to:

- 1. Place an X on every scale. Do not omit any scales.
- 2. Put only one X on each scale.

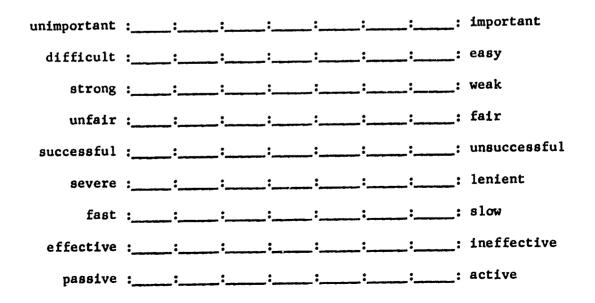
WORKER

unimportant	:	_:	_;	_:	_;	_:	_;	: important
difficult	;	_:	_:		-;	_;		: еаву
strong	:	_:	_:	_:		_:	_:	; weak
unfair	:		_;	_:		_:		: fair
successful	:		_:			_:		unsuccessful
severe	:		_:					lenient
fast	:	;	_:		-;		······································	: slow
effective	;	;	_:	_;	_:			ineffective
passive	:		:				_:;	active

TO PERSUADE



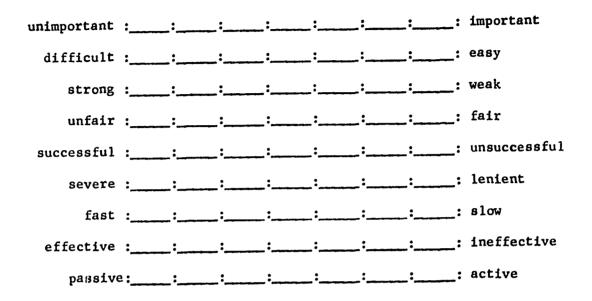
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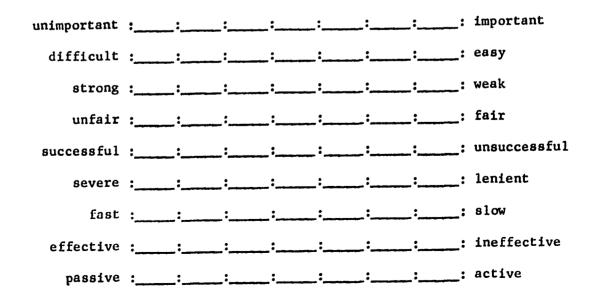
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RULES AND REGULATIONS

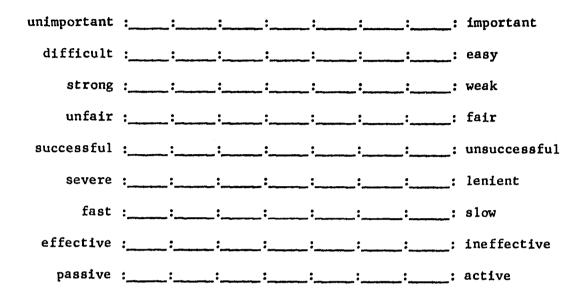
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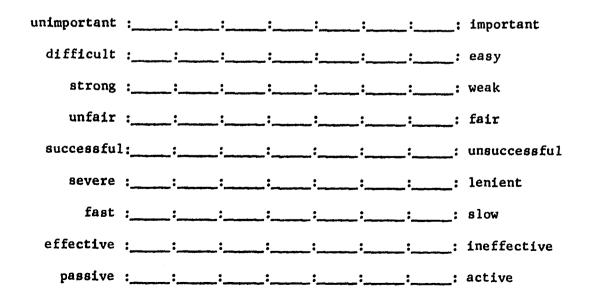
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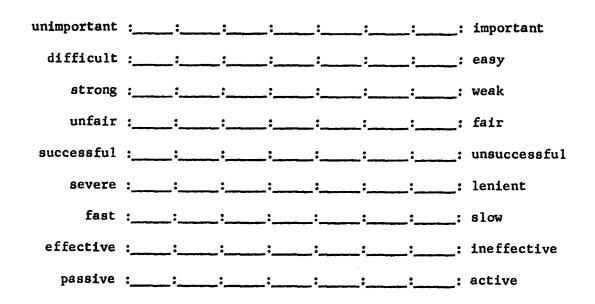


MANAGERIAL INFLUENCE

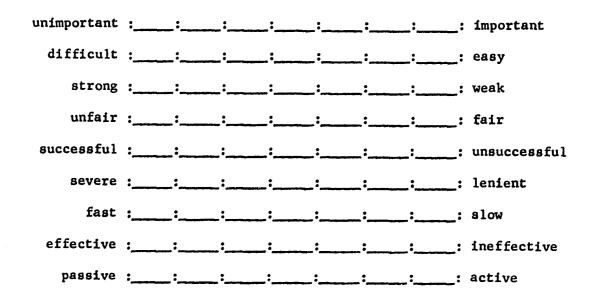


TO REWARD





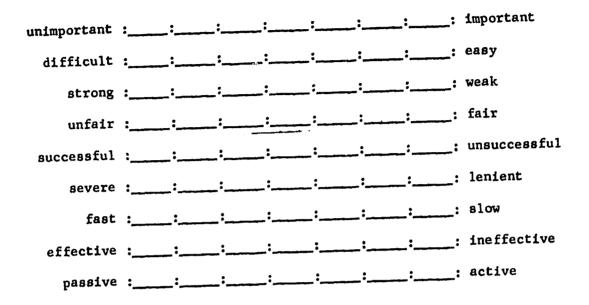
MANAGERIAL AUTHORITY



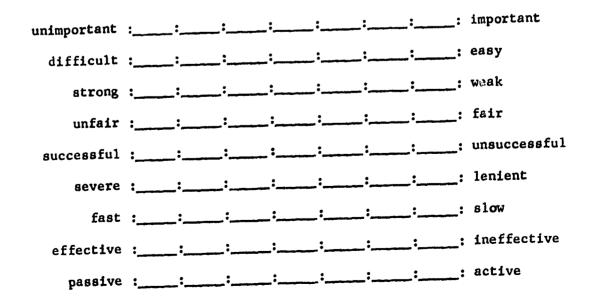
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TO COERCE

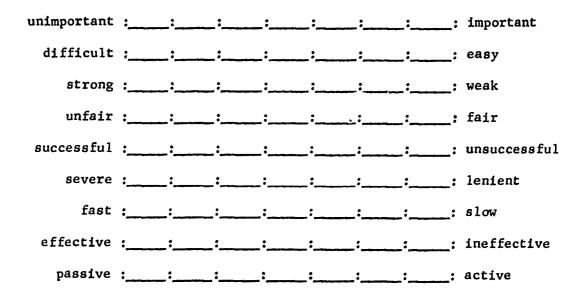


MANAGERIAL POWER

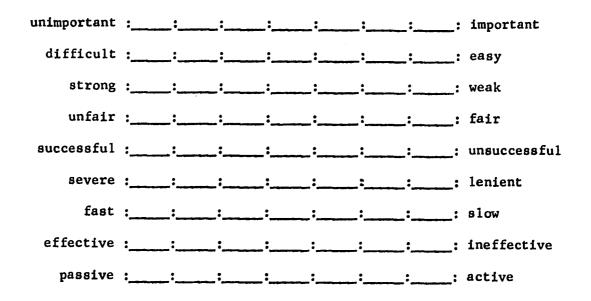


EMPLOYEE INFLUENCE

+ +



TO ADVISE



PART III

To help us with the statistical analysis of the data, please give us the following information about yourself.

- 1. How many levels of supervision are there in your organization from the first-level supervisor to the head of the organization? (Give the number):
- 2. How many levels of supervision are there above your position? (Give the number):
- 3. Approximately how many employees (management and non-management) are there in your company? (Check one):

_____Less than 500 _____Between 500 and 4999 _____5000 or more

- 4. Your age (check one): ______Under 30 ______30-39 _____40-49 _____50-59 60 or more
- 5. If you attended an undergraduate university or technical school what was your major specialty?
- 6. If you attended graduate school, what was your major specialty?

7. Have you ever been exposed to McGregor's Theory X-Theory Y concept?

Yes _____No ____Don't remember

Alma Louise Hammett was born in New Orleans, Louisiana, on June 18, 1924. She graduated from the Louise S. McGehee School in 1940. She attended Newcomb College, and received her Bachelor of Arts degree in Physics from Tulane University in 1944. She received the degree of Master of Business Administration from Tulane University in 1968.

She has held managerial and administrative positions in government, retailing, and university administration in this country and in Europe. She is currently an Assistant Professor of Management and Marketing at the University of New Orleans, a member of the Louisiana State University System.

VITA

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EXAMINATION AND THESIS REPORT

Candidate: Alma Louise Hammett

- Major Field: Management
- Title of Thesis: A Study of Theory X-Theory Y Managerial Attitudes and Attitudes Toward Organizational Power of Managers in the Public Utilities Industry in the New Orleans Area

Major Professor and Chairman

Dean of the Graduate School

EXAMINING COMMITTEE:

Date of Examination:

October 8, 1974