OJIBWA EMOTIONAL RESTRAINT AND THE SOCIALIZATION PROCESS

Thesis for the Degree of Ph. D.
MICHIGAN STATE UNIVERSITY
THOMAS H. HAY
1968



LIBRAKI

Michigen State

University

This is to certify that the

thesis entitled

OJIBWA EMOTIONAL RESTRAINT AND

THE SOCIALIZATION PROCESS

presented by

Thomas H. Hay

has been accepted towards fulfillment of the requirements for

Ph. D. degree in authorpology

Charles C. Hughes
Major professor

Date 13 May 1968

O-169

PLACE IN RETURN BOX to remove this checkout from your record.

TO AVOID FINES return on or before date due.

MAY BE RECALLED with earlier due date if requested.

DATE DUE	DATE DUE	DATE DUE
JUL [©] 0 9 2001	JAN, 0 7 2002	-
60		
APR 2 0 2013		
042515		

11/00 c/CIRC/DateDue.p65-p.14

ABSTRACT

OJIBWA EMOTIONAL RESTRAINT AND THE SOCIALIZATION PROCESS

by Thomas H. Hay

This study focuses on the motivation of the extreme restraint characteristic of the typical Ojibwa Indian and on the learning process through which motivation for this restraint is developed. Hypotheses derived from two different theories of the motivation of the restraint and from two different theories of the development of extreme restraint are tested in this study.

One of the theories of the motivation of restraint traces this restraint to an exaggerated fear of retaliation for openly aggressive behavior. The other theory traces restraint to an exaggerated fear of doing serious injury to others by openly aggressive behavior. The first of the theories of the development of restraint, derived from stimulus-response learning theory, attributes fear of retaliation for aggressive behavior to frequent punishment in childhood for behavior offensive to adults. The other theory, derived from cognitive learning theory,

attributes exaggerated fear of doing serious injury to others to adult acquiescence in the offensive behavior of children.

Since the Ojibwa consider children incapable of effective retaliation against adults, but do not consider children to be immune from injury by adults, it was reasoned that these theories of the motivation of restraint could be tested through observation of adult reactions to the offensive behavior of children. The observations could also be used to test the learning theories when analyzed from the point of view of the experience of the child.

The two motivational theories were partially formalized in the expected value framework employed by some contemporary decision theorists. This formalization permitted deduction, from each theory, of quantitative estimates of the probable choices by adult Ojibwa of four different courses of action in a situation where the adult had been offended by a child. These formalizations also provided estimates of the frequencies of punishment or of acquiescence required by the learning theories.

The data to test the hypotheses derived from these theories was gathered through observations of the interaction of adults and children in nine Ojibwa households at Lac du Flambeau, Wisconsin and four

Ojibwa households at Berens River, Manitoba. These households can not be taken to be representative of the populations at either place. The sample is definitely biased toward the more culturally conservative families. The number of observations recorded was sufficient to permit tests (with the Kolmogorov-Smirnov test of goodness of fit) for twenty-nine adults of the hypothesis derived from the motivational theories. The binomial test of goodness of fit was used to test the learning hypotheses for thirty-two children.

The theory that Ojibwa restraint is motivated by fear of retaliation is not supported by the data. It implies that Ojibwa adults should punish offending children with high relative frequency. This hypothesis could be rejected at the .Ol level for twenty-seven of twenty-nine adults.

The theory that Ojibwa restraint is motivated by fear of doing serious injury to others is neither clearly supported nor contradicted by the data. There is, however, reason to believe that minor modifications of this theory would lead to deduction consistent with the data.

The theory that fear of retaliation is learned through punishment in childhood is unsupported by the data -- as might be expected from the results for the

theory that restraint is motivated by fear of retaliation.

Finally, the theory that exaggerated fear of injuring others is due to parental acquiescence in the offensive behavior of children can be rejected for only two of thirty-two children.

OJIBWA EMOTIONAL RESTRAINT AND THE SOCIALIZATION PROCESS

bу

Thomas H. Hay

A THESIS

Submitted to
Michigan State University
in partial fulfillment of the requirements
for the degree of

DOCTOR OF PHILOSOPHY

Department of Anthropology

1968

ACKNOWLEDGEMENTS

Like most dissertations, this one owes much to the help and encouragement of many others. I particularly wish to express my appreciation to the following people.

To my committee, Professors Charles Hughes, Seymour Parker, Lucy R. Ferguson, and Moreau Maxwell, whose encouragement and helpful suggestions have been indispensable.

To Professor Harry Grater, now of the University of Florida, without whose help I would not have been able to write a dissertation at all.

To Professor Stephen Boggs of the University of Hawaii for many helpful discussions in the formative days of the project and much encouragement since then.

To Professor Melford E. Spiro of the University of Chicago and to Professor John Messenger of Inidana University for their long-continued encouragement and support.

And, finally, to my wife, Nancy Marden Hay who gave more than anyone.

TABLE OF CONTENTS

	Page
ACKNOWLEDGELENTS	i i
LIST OF TABLES	iv
LIST OF ILLUSTRATIONS	vii
LIST OF APPENDICES	viii
Chapter	
I. IMTRODUCTION	1
II. THE TWO COMMUNITIES	12
III. THE FAMILIES STUDIED	37
IV. THEORIES OF THE MOTIVATION AND DEVELOPMENT OF OJIBWA RESTRAINT	6l _‡
V. RESULTS	110
VI. THE WINDIGO BELIEF AND THE "FEAR OF SELF" THEORY	161
VII. CONCLUSIONS AND IMPLICATIONS	174
APPENDIX	192
REFERENCES CITED.	227

LIST OF TABLES

Table		Page
14.1	Sample Application of K-S Test to Ten Incidents of adult-Child Interaction Under a Hypothesis From the "Fear of Others" Theory	103
5.1	Distribution of Observed Responses of Twenty-nine Ojibwa Adults Compared with the Theoretical distribution from the "Fear of Others" Theory	111
5.2	Observed Responses of Adults to Offending Children and Test of Hypothesis from "Fear of Others" Theory for each of Twenty-nine Adults	113
5.3	Distribution of Observed Responses of Twenty-seven Ojibwa Adults Compared with Theoretical Distribution from "Fear of Self" Theory	121
5.4	Observed Responses of Adults to Offending Children and Test of Hypothesis from "Fear of Self" Theory for each of Twenty-seven Adults	124
5.5	Comparison of Observed Distribution of Choices of Berens River Agults with Modified Theoretical Distribution	13 5
5.6	Comparison of Observed Distribution of Choices of Lac du Flambeau Adults with Modified Theoretical Distribution	1 3 5
5.7	Observed Responses of Adults of Offending Children and Test of Hypothesis from Berens River Modification of "Fear of Self" Theory for Each of Seven Adults	136
5.8	Observed Responses of Adults to Offending Children and Test of Hypothesis from Lac du Flambeau Modification of "Fear of Self" Theory	138
5.9	Cutcomes of 767 Situations in which Children Behaved in a Manner Offensive to Adults	

	<u>Table</u>	List of Tables continued	<u>Page</u>
	5 . 10	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. Children Under Two Years of Age Omit- ted	11:1:
	5.11	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. Comparison of all Observations at Berens River with all Observations at Lac du Flambeau	11 <u>.</u> 5
	5.12	Group I Learning Theory. Number of Offensive Acts; Number of Punitive Responses Received, Relative Frequency of Punishment, and Binomial Probability of Observed Number of Punitive Responses under the Null Hypothesis, for each of Thirty-two Children	1146
	5.13	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. All Observations at Lac du Flambeau and Berens River	150
·	5.14	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. Children Under Two Years of Age Ommitted	151
	5.15	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. Comparison of all Observations at Berens River with all Observations at Lac du Flambeau	153
	5.16	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. Comparison of Children Two Years Old and Older at Lac du Flambeau with Similar Children at Berens River	1 54
	5.17	Outcomes of Situations in which a Child Behaves in a Manner Offensive to Adults. Children less Than Two Years Old: Berens River and Lac du Flambeau com- pared	155
		V	

List of tables -- continued

<u>Table</u>		<u>Page</u>
5.18	Group II Learning Theory. Number of Offensive Acts, Number of Acquiescent Responses Received, Relative Frequency of Acquiescent and Binomial Probability of Observed Number of Acquiescent Responses Under the Null Hypothesis, for Each of 32 Children	157
8.1	Assumed Subjective Probability of Occurrence of each of the Punitive Outcomes Given Choice of each Course of Action	206
8.2	Subjective Probabilities of Primitive Outcomes Given Choice of Cl, C2, C3, or Cl. "Fear of Others" theory, Near Perfect Maximization, Minimum Probabilities of o3	213
8.3	Subjective Probabilities of Each of the Outcomes, Given choice of C2 as Originally Estimated and as Modified for each Locality. ""Fear of Sclf" Theory; Adults in Interaction with Children	225
8.11	Probabilities of Choice of Each of the Courses of Action, as Originally Calculated and as Modified for each locality. "Fear of Sclf" Theory, Adults in Interaction with Children	226

LIST OF ILLUSTRATIONS

Figure		Page
5.1	Distribution of Observed Responses of Adults to Offending Children Compared with the Theoretical Distributions from the "Fear of Others" Theory and the "Fear of Self" Theory	123
	·	

LIST OF AP ENDICES

Aphendix				Page	
I	Formalization of of Motivation			Theories	192

CHAPTER I

INTRODUCTION

Purpose

The purpose of this project is to test some contrasting hypotheses about the functioning and development of the typical personality of the Ojibwa Indians -- a typical personality which is characterized by hostility and emotional restraint. This type of personality is of interest to both psychiatry and anthropology, since there is evidence that it is a factor in the development of psychosis and of some psychosomatic disorders and because there are theoretical reasons for believing that it may tend to perpetuate the "atomistic" social organization of the Ojibwa.

Hypotheses derived from four theories will be tested. Two of these theories offer explanations of emotional restraint in terms of underlying values and beliefs. The other two offer explanations of the way in which this emotional restraint is learned.

Hallowell has proposed a theory which explains

Ojibwa restraint as a consequence of their fear of

retaliation through sorcery. An alternative theory which

is implicit in the writings of some psychoanalysts ex
plains this restraint as a consequence of the Ojibwa's

•

fear of what they might do to other people if they lost control of themselves. From each of these theories a hypothesis has been deduced concerning the relative frequencies with which Ojihwa adults should choose punitive behavior toward children who offend them.

These hypotheses will be tested with the same data used to test the developmental hypotheses described below.

Overview

Overview

From two groups of theories of learning of personality characteristics which differ in the emphasis placed on the child's drawing of inferences about his social environment, are derived two kinds of hypotheses about the child rearing antecedents of emotional restraint and hostility. The hypothesis from one group of theories implies that the antecedent of emotional restraint is frequent and severe punishment. The hypothesis from the other group of theories traces emotional restraint to the absence of adult control.

parental punitiveness and acquiescence in situations which are comparable in different households. Theoretical expected frequencies of parental choice of punitive and acquiescent behavior are derived to permit statistical tests of the hypotheses from which these expected frequencies were derived. The data to test these hypotheses were obtained through participant

observation of interaction in several households in each of two differently acculturated groups of Ojibwa. Interaction of adults with children was observed in a total of thirteen households. Nine of these households were located at Lac du Flambeau. Wisconsin and four at Berens River, Manitoba. Six hundred seventy-one observations of adult reactions to offending children were recorded, permitting statistical tests of hypotheses about the behavior of twenty-nine adults. Twenty-two of these adults were from Lac du Flambeau and seven from Berens River. Seven hundred sixty-seven observations of the adult reactions experienced by offending children were recorded. These were sufficient to permit statistical tests of the hypotheses about these experiences for thirty-two children. Twenty-four of these children were observed at Lac du Flambeau and eight at Berens River.

Ojibwa typical personality

Ojibwa personality has been studied by numerous anthropologists, but the work of A.I. Hallowell has been particularly extensive and thorough and will serve as the principal background for this study. He has studied three groups of Ojibwa, each at a different "stage of acculturation." Two of these groups are located in Manitoba and one in Wisconsin. Hallowell calls the

group at the carliest stage of acculturation the "Inland Group," and the group at an intermediate stage of acculturation the "Lakeside Group." The third, and most acculturated, group is located at Lac du Flambeau, Wisconsin and gets its designation from that location. On the basis of a sample of Rorschach tests from each group (144, 58, and 115 subjects, respectively), he concludes:

The most striking fact is the persistence of the same basic psychological pattern through these stages of acculturation. There is a persistent core of generic traits which can be identified as Ojibwa (1955:351).

Hallowell does not indicate in this article which traits constitute this "core," but his other works indicate that he considers hostility and emotional restraint to be the central characteristics of the Ojibwa typical personality. In Chapter Six of <u>Culture and Experience</u> (1955) in which he attempts to reconstruct the personality typical of the early northeastern Indians from the accounts of missionaries, explorers, and traders, the major characteristics discussed are emotional restraint and hostility. In the same chapter, referring to the Rorschachs of the two Canadian groups, he says:

The most prominent feature in the great majority of the records is the emphasis on strong restraint and control (1955:149).

Other students of Ojibwa personality concur in the centrality of emotional restraint and hostility as traits of the Ojibwa typical personality (Landes in a personal communication to Victor Barnouw, quoted in Barnouw 1963:147; Barnouw 1950:22, 60-61; James 1961:738, 740; Wallace 1952:104-105; Lowenfels, quoted in Barnouw 1963:282). Lowenfels, in her analysis of Ojibwa children's drawings, finds 63% "constricted" and "overcontrolled" and the remaining 37% also "manifesting constriction and over-control" but less "inflexible" (Barnouw 1963:282). These reports are taken to justify the assumption that a large majority of the Ojibwa display hostility and emotional restraint which Hallowell appears to regard as the "core" of the typical personality.

Psychological and social significance of this personality type

Personalities marked by this combination of hostility and restraint are of considerable interest to psychiatry since there is evidence linking this type of personality to the development of some psychoses and to the development of essential hypertension and

neurodermatitis. (See Buss 1961, chapters 11 and 12 for a summary of the evidence.)

Since personality plays an important part in some theories of cultural integration (Kardiner 1939: 20-21: Whiting and Child 1953:310) and in some theories of cultural change (Linton 1939:x; Wallace 1951:61; McClelland 1961:ch2: Hagen 1962:ch 8), the process of personality development is also of concern to these theories. These theories of cultural change emphasize that the typical personality of the members of a society tends to limit the society's acceptance of cultural changes to those which are congenial to the typical personality. The "social atomism" (Barnouw 1950:15-16) or "particularism" (Hickerson 1962: ch 1) of Ojibwa society can be explained on this basis through a hypothesis proposed by Berkowitz, building on earlier work by Newcomb (1947) and that by Thibault and Coules (1952). Berkowitz hypothesizes that people who are hostile and also inhibited about expressing aggression

...sought to cut off communications with a person who, they believed, might heighten their aggressive inclinations and therefore, would also increase their anxiety about this hostility (1962:99).

If considerable communication is necessary for the

effective organization of groups larger than the extended family household, then the Ojibwa reluctance to form larger social groupings would be expected from this hypothesis.

It seems, therefore, that information about potentially significant factors in the functioning and development of this type of personality is relevant to the concerns of psychiatry, psychology, and anthropology.

Hypotheses to be tested

The fundamental assumption of this study is that a large majority of contemporary Ojibwa children are in the process of developing the hostility and emotional restraint which is regarded as the "core" of the typical personality.

The hypotheses to be tested are derived from two groups of theories which embody different conceptions of the learning process. The conception of the learning process in the first of these groups of theories includes only a minimum use of reasoning on the part of the child who is learning. This kind of theory is often labeled "stimulus-response" or "S-R" theory. Hereafter, these will be called "Group I Theories." The conception of the learning process embodied in the second group of theories includes much more use of reasoning by the child

who is learning. These theories are often called "cognitive theories." These will be called "Group II theories." As used here, the child is said to be reasoning if he draws inferences about relationships among events, real and hypothetical. Reasoning is, of course, inferred from more readily observable behavior. This difference between the two groups of theories is important since, for high degrees of hostility and emotional restraint, the antecedents predicted by the Group I theories are opposite to those predicted by the Group II theories.

All of the hypotheses entertained in the course of the original field work were drawn from Group I theories. Since no alternative to this group of theories had been considered, it was not until after the original work had been completed that the possible inconsistency of the data with the implications of these theories was fully appreciated and a search was begun for theoretical formulations in which personality characteristics were conceived to be differently related to the actual events experienced by the child.

After such an alternative was found, the original study was recast as an effort to test hypotheses derived from the two different groups of theories. The theories being tested are thus primarily explanatory of what has

been observed rather than <u>predictive</u>, although their specific forms and implications were developed before the data were analyzed formally. It should be noted here that the formal, logical structure of explanation and prediction are identical. That is, a formally adequate, <u>deductive</u> explanation is sufficient for prediction (Hempel 1942). Partial formalizations of the two theories of Ojibwa restraint are to be found in the appendix.

Hypotheses derived from the two theories purporting to explain Ojibwa restraint concern the relative frequencies with which individual adults should be observed to choose specified courses of action when they have been offended by children. theory (or both theories) could be rejected if the deduced frequencies of choice were not observed for a sufficient proportion of the adults in each of the two groups studied. There are thus two statistical problems. First, the determination for each adult of whether or not the observed relative frequencies of choice of the specified courses of action could be expected if the hypothesis derived from a particular theory were true and, second, whether or not a sufficient proportion of the observed adults of both groups display the frequencies of choice implied by

the particular theory.

The learning theories are concerned with the relative frequencies with which each child received certain kinds of treatment from adults. The statistical problems are essentially similar to those involved in testing the theories of restraint.

The sample

As is frequently the case in child-rearing studies, selection of a probability sample was impossible. Therefore, any conclusions can be generalized only with caution. In testing hypotheses about the typical personality of the Ojibwa and its transmission, the important issue is not the extent to which the sample represents the population of Lac du Flambeau or Berens River, but the extent to which the people studied can be taken to be typical Ojibwa. An effort has therefore been made to estimate the extent to which the families which were studied can be taken to be typical. (See Chapter Three.)

The families which were studied were from the "Lakeside Group" at Berens River, Manitoba and from the Lac du Flambeau Reservation in Wisconsin. The differences between these two groups provide some control over the possible significance of specific child-care techniques -- which is not entirely a dead issue

despite Orlansky's conclusions.

Orlansky concluded, "...we are led to reject the thesis that specific nursing disciplines have a specific, invariant psychological impact upon the child" (1949:39). The differences between these "specific nursing disciplines" at the two locations are not clear-cut, but there are differences in the relative frequencies of different "disciplines" between Lac du Flambeau and Berens River.

A few families at Berens River use the cradle-board for infants and some use the cradle-board wrappings without the board itself. At Flambeau neither cradle-board nor wrappings were observed, except on display in business establishments. At Berens the hammock or swing (wewebizon) in which infants sleep is nearly universal; at Flambeau, it is used by a very few families. At Berens River about two out of three infants are breast-fed (based on a limited sample), while, at Lac du Flambeau, all infants known to me were bottle-fed. Boggs (1958:50-53) has discussed these and some other differences between his two samples from the same Indian groups.

The data to test the hypotheses consist of narrative accounts of family interaction gathered by me and my wife during participation in everyday activities with the sample families.

CHAPTER II

THE TWO COMMUNITIES

Introduction

In each of the two communities in which field work was done there is a considerable range of variation in the degree to which individual and family behavior deviates from the reported traditional norms. In most respects, the deviations from traditional behavior are smaller at Berens River than at Lac du Flambeau. For this reason, I shall consider the community of Berens River and the behavior of its people in comparison to reported traditional behavior first and then the community of Lac du Flambeau and the behavior of its people.

Berens River, Manitoba

Physical Setting

The community of <u>Berens River</u> is located at the mouth of the Berens River on the east side of Lake Winnipeg about half-way between the northern and southern end of the lake. The land is low and swampy with frequent outcroppings of granite bed-rock. The swamps are muškig, that is, they are thickly grown with trees,

rather than open. The characteristic forest cover is spruce and birch with some balsam. The reserve extends inland on both sides of the river and north from the river along the rocky shore of the lake. There are no roads or railroads nearer than 100 miles and access to the "outside" is primarily through the weekly steamship when the lake is free of ice and by plane or tractor train. During the Fall freeze and Spring "break-up", there is only radio contact with "the outside".

The log houses of the Indians are 100 to 300 yards apart along river and lake shore in the reserve. (In Canada, a "reserve" is primarily an area for housing and the Indians have the right to hunt and trap over the area outside the reserve.) In the summer commercial fishing season, some of the families from up-river live in tents along the lake shore near their relatives.

Population

The 1948 annuity list, supplied by the Hudson's Bay Company factor, with some correction for births and deaths by him, and some by myself, lists 391 enrolled members of the band. In addition to the Indians, there are about 35 whites, mostly the families of government officials, traders, and missionaries, and something less than 100 "half-breeds." These last

are Indian in identification and style of life.

They differ from technical "Indians" in not being eligible for annuity payments, and in being eligible to vote in Canadian elections and to buy beer.

Subsistence

Aboriginally, the Ojibwa were hunters and gatherers. With the arrival of Europeans and the fur trade, this basic occupation was not disrupted but intensified by the new emphasis on fur-bearers (Kroeber 1947:96: Hallowell 1955:119).

In 1952 hunting and trapping had declined in importance, but were still significant in the subsistence of many families. The decline in importance is indicated by the increased importance of four other sources of income.

Chief among these is commercial fishing. Most of the families at Berens River were engaged in this pursuit in the summer of 1952. As in hunting and in trapping for the fur trade, a man is still his own boss in commercial fishing. A man gets his nets, the rental of a boat and motor, and the purchase of some goods at the fish company store on credit which is paid off by his catch. There are three seasons when commercial fishing is open in different areas of Lake Winnipeg.

There is a soring and early summer season at Berens River; an early Fall season in areas to which many families move for the season; and a winter season, in which few meanle at Berens River are involved.

Cutting fire wood for sale to the steamship company is a winter occupation which engaged many men until the winter of 1952, after which the ship was converted to another fuel.

Wage work for the fish companies, the schools and the United Church, and the forestry department employed a few men seasonally, while the Mounted Police and the Hudson's Bay Company employed one each the year around.

The fourth source of subsistence is government payments, usually in the form of rations of foodstuffs to those who are in need.

A few families gather wild rice for the commercial market, but it is not abundant locally.

The decline in the importance of the fur trade has been accelerated by the rapid decline in fur prices in the early 1950s. Few families in Berens River move to their winter trapping grounds. As a rule, those men still engaged in trapping go out to their trapping grounds periodically, leaving their families in the settlement. Hallowell (1955:119) reports this pattern in the 1930s when more men trapped. Information supplied

by Dr. Nufeld of the United Church mission indicates that about half of the men, assisted by their older sons, were out trapping in the winter of 1951-52.

The continuing importance of hunting and trapping plus fishing is indicated by the unavailability of animal foods at the stores. In addition, the standard footwear of the Indians is moosehide moccasins over which are worn rubbers purchased at the store -- a great boon in wet country. A surplus of moccasins is produced and sold to the stores for tourists. Despite the summer emphasis on fishing, several moose were shot and the meat smoked and hides tanned while we were there.

Social Organization

Marriage

Landes' description of marriage at Manitou in Ontario (1937:103-105) largely applies to Berens River. It seems unlikely, however, that the disappearance of cross-cousin marriage can be attributed to contact with the Dakota, but must be attributed to other causes which certainly include Christianization and probably the development of relatively large and permanent settlements. Boggs (1954: Ch 2) notes in a few families a tendency for second and third cousins to marry, which could be a persistence of the old pattern

modified to suit the Christian tabu on first-cousin marriage. Landes' generalization that "...most marriages are fairly short and very stormy," (1937:104) applies to Berens River as well as to Manitou.

Adultery and illegitimacy are fairly frequent, but only sometimes lead to separation of a couple. The illegitimate child of a married woman is often knowingly raised by her husband. In the case of an unmarried girl, the illegitimate child is often brought up in the household of her parents until she marries when it will go with its mother to her husband's household. (This information is derived from a household survey made by Dr. Nufeld of the United Church mission dated January 1952 and from field notes.) There seems to be little stigma attached to either the mother of an illegitimate child or to the child.

The Household

According to Dr. Nufeld's survey, forty-one of the seventy-one households of enrolled Indians were nuclear family households, eighteen included three generations, three households were composed of one or both grandparents and grandchildren, three households included some relative other than nuclear family and grandparents, and five men and one was an lived alone. Tange households are not stable in membership as people

shift their living arrangements readily as is indicated by the shifts of spouses mentioned before. Boggs (1954: Ch 2) concludes that family and household stability cannot be shown to have decreased as a result of contact.

The Extended Family

The extended family is an important functioning unit at Berens River. As indicated above, many house-holds include three generations. Additionally, it is a common practice for men to build their houses near those of their fathers or fathers-in-law. Fishing, trapping, and cutting wood for the steamer are carried on by groups of men related in either of these ways and sametimes by brothers after the death of their father.

Community Organization

As of 1952, government was nominally vosted in a hereditary chief and a group of councellors, but they lacked effective powers to initiate action or maintain social control. Social control, as in aboriginal times, is still primarily a matter of individual, internalized control. Hallowell writes of the Berens River people:

Since there are no organized penal sanctions and, in fact, no adult has any authority to impose any sort of penalty upon another person, and since openly expressed moral disapproval is avoided because it may be taken as a sign of hostility, fear of disease is the major social sanction (1955:294).

These internal controls are quite effective; crimes are very rare. External control is maintained by a single officer of the Royal Canadian Mounted Police who is resident in the community, but whose territory must cover more than 5,000 square miles. The justice of the peace for the area lives fifty miles down the lake -- a six-hour round trip in the police boat.

Trapping grounds are registered with, and supervised by, the provincial Game Guardian.

No organized community activity occurs. Cooperative group activity on the scale of the extended family does occur, but no cooperative activity on a larger scale.

Religious Behavior

Virtually all of the Indians in the community are Christians and most attend services with considerable regularity. They are about evenly divided between the United Church and the Roman Catholic Church.

Observances of Ojibwa religious ceremonies

have long been forbidden in the community and apparently do not take place -- certainly none were observed.

Hallowell (1936:49) concludes for this community,

"The last Midewiwin must have taken place over fifty years ago." Aboriginal herbal remedies are regularly used, and Boggs reports the use of "love potions," as well (1954:35).

Despite the departure from traditional Ojibwa religious observances, there is a strong religious orientation at Berens River. Although many people express disapproval of the traditional religion, they also evince considerable interest in it (Boggs 1951: Ch 2). Boggs discusses religious behavior at some length and concludes that, although Christianized, the Berens River Ojibwa are closer to the aboriginal pattern than the people of Lac du Flambeau who are mostly secular in orientation, although a few people at Lac du Flambeau still observe traditional rites.

Lac du Flambeau, Wisconsin

Flambeau in 1952

The following account applies to Lac du
Flambeau as it was seen in 1952. A few important changes
in subsistence, political organization, and religious

behavior were noted in 1966. These will be reported in a concluding section.

Physical Setting

The village of Lac du Flambeau sprawls among tall white pines on the high ground which separates the clear, cool lakes which form the Flambeau chain. A dozen stores and the post-office are concentrated on two blocks of a single street. The houses of the Indians spread out from this center among the pines and along the shores of the lakes.

Two miles to the west of the village proper, the "Old Village" stretches along the north shore of Flambeau Lake. It is here in the Old Village that a few people still build wigwams for summer use and the Ojibwa religious ceremonies are generally held, although many of the adherents of the Drum and Midewiwin live elsewhere on the reservation.

The Lac du Flambeau reservation is located in extreme northern Wisconsin. It is a rectangular tract of land about ten miles from east to west and about 12 miles from north to south. It contains 126 named lakes and many smaller ones. Much of the area which is not lake is swamp and the remainder is sandy soil on which grow some hardwoods (including sugar maple), considerable pine, and a large acreage of aspen, or "popple."

Acculturative influences

Until the advent of a sawmill and the railroads in 1893, Lac du Flambeau was an isolated reservation with little contact with white Americans. Since then it has been increasingly drawn into the mainstream of American life. There is still some logging of the pine on the reservation and the "popple" provides winter employment for some men "cutting pulp" for the paper industry to the south, but the major factors tending to draw the Indians into the mainstream are the tourist industry and a small factory.

The tourist industry got its start in the 1930s and in 1952 there were 26 resorts on the reservation. These employ some Indians, both men and women, during the tourist season -- June through August. The most important effect of this business has probably been to bring many permanent residents into the area with consequent intensification of acculturative pressures.

Since 1946, a small manufacturing company has operated a plant in what was once the Indian school in the village. About 100 Indians, most of whom were women, were employed there in 1952.

In the late 1940s, the Indian school was closed and the Indian children now attend the public school with the white children of the area. (Boggs 1954: Ch 2) gives and excellent brief summary of Flambeau's

history and Hallowell (1955: Ch 18) covers some of the earlier history of the Indian group who eventually settled at Lac du Flambeau.

Polulation

There were 870 people on the tribal roll, as corrected, in 1952. This figure includes resident Ojibwa enrolled elsewhere and some additional changed noted by local Indian service personnel and by me. This list can be considered only approximately correct and certainly includes some non-residents. Hallowell estimated the number of resident Ojibwa in the summer of 1946 to be at least 831 (1955:340). The total population of the school district in 1952 was estimated by the principal to be 1,500, so that the year-around residents of the reservation are about equally divided between whites and Indians.

Subsistence

Primary sources of income at Lac du Flambeau are wage work for white employers and government payments such as old age assistance, aid to dependent children, public welfare, etc. Before the opening of the factory, it was not unusual to have more than 50% of the families on the reservation dependent on such payments for at least part of the year. Since the opening of the factory,

this percentage has declined, but such payments are still important to the existence of many families. Ritzenthaler (1953) has described the effects of the opening of the factory on the community, perhaps, somewhat optimistically.

Hunting and trapping have long been totally inadequate as means of subsistence, but they do provide supplementary food and emergency food occasionally. Fishing is somewhat more important than hunting as a means of obtaining food and provides some men with considerable income in the summer through guiding tourists. Successful guides also enjoy considerable prestige among both Indians and white sportsmen. These former subsistence activities are primarily important as recreation.

A few families gather wild rice, two families make maple sugar, and three or four tan hides and make moc-casins. The motivation for these activities seems to be largely sentimental attachment to the old ways.

Social Organization

Marriage

The attenuated forms of cross-cousin marriage found at Berens River do not exist at Lac du Flambeau. Essentially similar reports to those from Berens River can be given about the stability of marriage and

about attitudes toward infidelity and illegitmacy at Lac du Flambeau. Marriages may be even less stable at Lac du Flambeau than at Berens River, but this impression may merely be due to longer residence at Lac du Flambeau. In 1952, the county welfare department was attempting to increase the stability of marriage through forcing people into legal marriages by denying public assistance to couples who were not married.

An important consequence of the greater availability of employment for women is the blurring of distinctions in the roles of men and women. There were several instances where the husbands of employed women were essentially taking the role of housewife during the working hours of their wives. They did not perform this role with either enthusiasm or skill.

The Household

The household is the most important social unit at Lac du Flambeau, as it apparently has been traditionally for the Ojibwa. My notations on the tribal roll, made as I came upon the information, indicate that a minimum of thirty-six of the approximately 210 house-holds were not nuclear family households; that is, they contained three generations, were of the grand-parent-grandchild type, or contained other relatives. This is almost certainly a low estimate. Boggs reports

(1954:40) that such households constituted 30 percent of a sample of 42 households best known to him.

The Extended Family

The extended family, as seen at Berens River, is almost unknown at Lac du Flambeau. At Berens River, a man and his sons can hunt and trap or fish commercially or cut and haul wood together. At Lac du Flambeau, where most men work for wages, such cooperation in production is not possible. There is sharing of income and a common domicile with relatives, but not the clustering of the houses of a man and his sons who work together to produce a living for all of them.

Contacts with kin are maintained, but these contacts do not seem to involve any particular group of kin nor any particular kind of exchange of services.

Political Organization

Political organization at Lac du Flamboau is considerably more complicated than it is at Berens River. The number and variety of political units with which the Indians must deal is much greater. These political units include the tribal council and court, The Federal Indian Service and Federal Courts, the local school district, township, county, and state

governments. The school district and township governments arise as the result of the alienation of Indian lands. About four-sevenths of the land of the reservation is owned by whites (Hallowell 1955:339) who organize and control the school board and township government.

The school board is significant to the Indians (whether they realize it or not) because the Indian children attend the school for which the board sets policy. The township government is significant to the Indians because the local ordinances it enacts and enforces apply to the Indians when they are in the non-Indian four-sevenths of the reservation. The county government is important to the Indians because it administers the various welfare programs on which many of them are partially dependent. The policy of the county welfare board is to discriminate against the Indians in terms of the amounts of the benefits due them under Federal and state law. The impact of the state government is relatively indirect. The significance of the Federal Government for the Indians lies in the fact that the few laws which govern acts on Indian land are laws of the Federal Government enforced in Federal Courts.

Tribal government is vested in an elected
Tribal Council of twelve members and a Tribal Court.

These are intended, under the Indian Reorganization

Act, to enact and enforce laws to govern Indian lands

which cannot, under the U.S. Constitution, be enacted by

Congress and enforced by the Ecderal Government.

The Tribal Council has enacted some ordinaces requiring

children to attend school and others designed to in
crease family stability. Under the prodding of local

white leaders and local Indian Service people, the

Council and Court have been successful in enforcing

school attendance, but not the other ordinances.

This failure is important since the internal controls which reportedly functioned adequately under pre-contact conditions and which are apparently adequate at Berens River cannot be relied upon to the same extent at Lac du Flambeau. Hallowell notes, from his composite Rorschach profiles, that at Flambeau, ther is "...a weakening of the rigid control on which the Inland Ojibwa depends, without any compensating factor emerging," (1955:351). Thus external social controls are more important at Lac du Flambeau than at Berens River. Even so, 70% of the Flambeau Indians tested by Hallowell and his students gave 50% or more F responses (the criterion used for the statement about rigid control quoted above). (Tetting and Hutchins 1966). If it were not for this persistence of the Ojibwa

personality, the frequency of vandalism, theft, assault, and homicide at Flambeau might well be considerably higher than it is. Impressionistically these rates seem to be high, but since no accurate figures are available, it is difficult to judge.

The Tribal Council itself initiates little, if anything, in the way of efforts to better the community. Those activities which it does undertake are undertaken almost exclusively on the urging of leaders who are not members of the tribe. Lac du Flambeau has been extremely fortunate to have had the services of an intelligent, wise, and dedicated head of the local Indian Service office, Dorothy Yellowcalf Stewart, herself a Pawnee. She is responsible for much of the good that has been achieved by and for the Indians. (In the summer of 1966, she was inducted into the tribe, an unheard of honor for someone in the Indian Service, and given the name Ogimabinesi ikwe, Chief-thunderbirdwoman.) Election to the Tribal Council confers little prestige so far as most of the Indians are concerned. Some of the Indians regard some of the members as "white men." Some of these members also regard themselves as white men.

Religious Behavior

At Lac du Flambeau, unlike Berens River, most

of the Indian population is secular in orientation.

Boggs suggests that this may be due to the fact that

Christianity was introduced to Berens after long efforts

on the part of the Indians to secure the services of

a missionary and that the missions were identified as

Indian churches from the beginning. Whereas, at

Flambeau, there were no Christian churches until whites

became numerous and then the churches were identified

primarily with whites (1954: Ch 2).

The first missionary arrived at Berens River in 1873 (Hallowell 1955:120), whereas whites did not become numerous at Lac du Flambeau until after the arrival of the sawmill in 1893. Thus Flambeau has a shorter hallow of contact with Christianity and one less likely to secure converts. This may have something to do with the survival of definitely Indian religious ceremonies at Flambeau.

About 40 people of all ages participate in the Drum Religion and the "War Dance." Many of these also carry on the Midewiwin.

We were priviliged to participate in many "song services" of the Drum Religion (nímí idiwin), including a first fruits ceremony and a restoration of mourners, to participate in the "War Dance" (ogičidá nímí idiwin) and to observe, without participation, some of the rites

of the Midewiwin. We also observed the wake and funeral of an old mide and a "medicine feast" (for the relief of asthma) in all of which the ceremonies were conducted by several mide.

The ceremonies of the Drum Religion have been described by Densmore (1913, 1929) and those of a variant of the Drum Religion, the "Dream Dance," have been described by Barrett (1911). The <u>Midewiwin</u> has been described by Hoffman in a classic monograph (1885). Although there were numerous variations from the rituals and a genuine religious spirit seem to have been preserved. The works cited suggest that there has always been considerable variation in ritual from one location to another and frequent innovations. Hallowell describes the origin, in the Inland Group, of a Drum Dance which seems to have the essential elements of the Drum Religion and the Dream Dance although differing in many elements of form (1955:160-163).

These essential elements seem to be communication with Manido (the Great Spirit) by use of a sacred drum, which is referred to as Nišomiss (literally, "our grandfather") and by use of tobacco which is generally smoked in a sacred pipe. Communication with the Great Spirit is for the purpose of petitioning Him for pimádezíwin, life, in the sense of health.

longevity, and well-being for the participants.

The range of variation in the rites of the Midowiwin is at least as great as in those of the Drum Religion.

Each Mide has his own songs and is usually unable to sing those of another Mide, even those of his own preceptor. The songs have a general equivalence of form, but much variation of detail -- many of the "words" are nonsense syllables. The paraphernalia of the Midewiwin, drums, rattles, medicine bags, were as described by Hoffman (1885:190-191). The Midewiwin, like the Drum Religion and Dream Dance, is intended to secure for its participants pimádezíwin.

Some of the changes in form are almost certainly decadent, resulting, in part at least, from the small number of participants. When we returned in 1966, we were surprised to find that there were still people carrying on the Drum Religion.

Although the bulk of the population at Lac du Flambeau is not oriented to any church, it seems justified to conclude that about 5% of the population maintains a genuine traditional religious orientation.

Lac du Flambeau in 1966

Three things stand out from a brief visit to Lac du Flambeau in August of 1966. First, an economic

improvement. Second, what appear to be major political developments. Third, the surprising survival of the Drum Religion.

Economic Developments

Lac du Flambeau has shared in the general prosperity of the United States since 1960 and more of the Indians seem to be adapting to the extent of becoming steady workers. Few Indians clerked in the stores in 1952; in 1966 many were working at such jobs. More Indians seem to be engaged in traditional crafts. The market for such objects had expanded sufficiently to lead to more tanning of hides and making moccasins and beaded objects.

These changes suggest that expansion of aggregate demand may indeed have results even in pockets of hard core poverty.

Political Developments

Even more impressive than the economic changes are the political changes. The Tribal Council seems to have become an effective body for the introduction of change. People seem interested in what the Council is doing and in its membership.

Three developments in public activity evidence a new effectiveness for the Council. First a sewage

	•	

disposal system; second, a water system; and, third, a public, low-cost housing project. These developments came about as a result of the receipt of about \$300,000 from the State of Wisconsin for some swamp land.

Mrs. Stewart (now retired from the Indian Service, but still active in community affairs) apparently suggested the projects. The Council not only managed to agree on the value of the projects, but succeeded in getting two-thirds of the enrolled members of the band to vote in the referendum and carried on a successful campaign for support. Although the housing project is partially financed with Federal funds, it, too, required an educational campaign to get it approved by the voters.

The "atomistic" Ojibwa have acted as a community.

These political developments do not seem to me to indicate any basic change in the typical personality. They seem, rather, to emphasize what can be done with an appropriate political system.

The political system is modeled on the system common to all levels of government in the United States. There are two features which seem to be particularly essential for the Ojibwa. The first is a device for securing the assent of the people which does not require them to interact intensively in a face-to-face situation. The secret ballot used in all elections in this country

seems to be nearly ideal for this purpose. The second feature of the system is a leadership group which can work together in fairly intensive interaction and achieve consensus within the group. This leadership group must also be able to convince the others of the desirability of the proposed actions.

unlike the rest of the population, must be able to engage in intensive, face-to-face interaction. This seems to require a personality different from that of the typical Ojibwa. The members of this leadership group at Lac du Flambeau do seem to be different in personality. One family (the "Hunts") from this group is included in the sample. This family is clearly different from the others in the sample.

Survival of the drum religion

Most of the old people who were active participants in the Drum Religion in 1952 have died. Two of the four former ogimag (head men) of drums are still living, however, and the son (now in his forties) of one of the surviving ogimag is now ogima of a drum himself. His drum was used for a song service which we attended. There were fewer than half as many participants as there were in 1952, and, unless more younger

men become interested, there will soon be too few to maintain even one drum at Lac du Flambeau. It was reported to us that there are quite a few Indians from other reservations who meet frequently to conduct Drum services. Perhaps the automobile will permit the Drum Religion to survive longer than it otherwise would.

CHAPTER III

THE FAMILIES STUDIED

Introduction

The purpose of this chapter is to present evidence concerning the extent to which the observed people can be considered to be typical Ojibwa.

The first part of the chapter will be devoted to the development of criteria by which to judge the extent to which the people can be considered typical. The remainder of the chapter will present descriptions of the observed families in terms of these criteria.

Correlation of personality with cultural characteristics

The available evidence indicates (as one would expect) that some Ojibwa conform more closely to the typical personality pattern than others. This evidence also suggests a correlation between the degree of cultural conservatism and the degree of approximation to the typical personality.

Primary Records in Culture and Personality) support three conclusions. First, in each of the three groups of Ojibwa, there is a wide range in the frequencies of each of the Rorschach scores. Second, the differences

in the composite (or average) profiles among the groups are due to differences in the number of people whose scores approximate the scores of the typical profile. Third, the number of people who have scores close to the typical profile is greatest in the least acculturated group and least in the most acculturated group.

Working with the Menomini, who are similar to the Ojibwa both culturally and psychologically, Spindler (1955) also found that composite Rorschach profiles were related to cultural characteristics for five groups on the Menomini reservation and that the composite profile of the "native-oriented group" most closely resembled that of Hallowell's "Inland Group."

Doggs (1954;1956), working with families from two of Hallowell's groups, found interpersonal behavior to be a function of level of acculturation. He also found that members of the least acculturated families were most likely to display the kind of interpersonal behavior which he took to be typical.

All of these findings suggest that adults who show typical Ojibwa behavior and children who are in process of developing the Ojibwa typical personality are most likely to be found in those families which are culturally the most conservative.

Measures of cultural conservatism

Hallowell (1955:333-334) and Boggs (1954:178) have used such measures for the Ojibwa and Spindler (1955:107) for the Menomini. The measure used by each of these writers is specific to his problem and to the particular groups or families with which he was werely.

All three writers use religious behavior in their measures, with Spindler making it his primary criterion. Hallowell and Spindler both emphasize language and means of dealing with illness. Boggs emphasizes such social factors as participation in an extended family, household composition, and the roles of husband and wife. Boggs also stresses traditional subsistence activities and Spindler finds possession of native objects significant.

A measure of cultural conservatism

For this study, the following indices will be used:

1. Religious identification and participation.

This criterion is not useful at Berens River where everyone participates in Christian services, but it is important criterion at Lac du Flambeau. At one end of the religious continuum are those who participate in the Midewiwin, the Drum Dance, the war Dance, and

related ceremonies. At the other end are the fully participating Christians. In the middle are those who are secular or not clearly identified with either native or Christian groups.

2. Language behavior

At the conservative end of this continuum are those who do not use English at all. At the other end are those who, while they may know some Ojibwa, speak English without Ojibwa mannerisms.

3. Source of income

those whose income is almost entirely derived from traditional sources such as hunting and sale of "medicines." At the acculturated end of this continuum are those who successfully participate in the economy of the white man. Between these extremes are those who have a mixed subsistence base, including those for whom the traditional activities are followed for reasons of sentiment rather than economics. Also included under this heading are traditional crafts, such as making meccasins, whether for own use of for sale.

h. Family type

At the conservative end of this continuum are

extended families with clear, differentiated roles.

At the acculturated end are nuclear families with wide departures from traditional roles of husband and wife or roles disorganization. Toward the conservative end go families which, while not actually extended families, have strong ties with kin outside of the nuclear family.

5. Treatment of illness

Since treatment of illness may have a ceremonial aspect, like religion, it does not differentiate among the Canadian families, but does differentiate among families at Lac du Flambeau. At the less acculturated end of the continuum are those who frequently use curing ceremonics or participate in them, and who sometimes also use the services of an M.D.. At the more acculturated end are those who use no native remedies and who never participate in curing ceremonies.

6. Possession of mative objects or practice of traditional behavior (in areas not covered above).

In the area of child care, for example, the most traditional family used the cradle board and its associated wrappings, used the baby hammock, used sphaguum moss "diapers," and did not use the bottle.

A family toward the other end of this continuum used

none of the traditional practices and the infant was bottle-fed.

These criteria have not been worked into a genuine scale, but they do provide a basis which permits the ranking of the observed families from least-acculturated to most-acculturated, with only a couple of cases where there is doubt about the placement of families relative to each other.

The observed families are described below in sequence from the most traditionally-oriented to the least traditionally-oriented.

Berens River Households

The names used to designate these households and their numbers are fictitious.

The "Wasse" household

This household is the least acculturated house-hold of all those observed. It consists of Wasse (about forty-five), his wife, a married daughter and her infant son, a daughter about ten, and a son about four. Wasse, his wife and his unmarried children are summer visitors from Little Grand Rapids, 110 miles up the river. The married daughter with whom they are staying is a regular resident and her husband is employed by one of

the fish companies. Further conformity to the extended family pattern is indicated by the fact that this house-hold is located next door to that of another daughter of wasse who is a permanent resident of Borons River.

None of the people of this household could be induced to use even a work of English and it seems unlikely that any of them knew more than a few words.

A major source of income for wasse is the sale of "medicines." Since all forms of religious and curing ceremonials are forbidden at Berens, it is not known whether or not he possesses any of the other shamanistic skills. Hunting is also an important source of income for this household. Wasse killed at least three moose during the summer of 1952. Some of the meat was smoked and the hides were tanned.

The married daughter is the only mother observed who uses the cradle board. She also uses the hammock for her baby (nearly universal at Berens) and he is usually tightly swaddled in the manner used in the cradle board. This infant is breast fed. His mother and her married sister, who has a baby of similar age, frequently sit and talk holding the infants on their laps.

On three occasions the four year old was observed "nursing" at his mother's undoubtedly dry

breast. These were occasions when he was unhappy, once apparently because of the attention his sister's baby was getting.

The Young Multoman household

This household is related to the Wasse household through Young Mukoman's wife who is a daughter of Wasse. Young Mukoman and his wife are both about twenty-eight years old. There are five children, a boy of eight, and boy of six, a boy and a girl, both about four (one probably adopted from another family), and a boy of about six months.

Young Mukeman speaks English better than most Berens River Indians, the eight year old boy also speaks it relatively well; and both are more at ease with white strangers than are most of the Indians.

The other members of the household use no English.

Young Mukoman is a successful commercial fisherman and trapper and also gets considerable subsistence
from hunting. He and his "first cousin" went hunting and
returned the next day with two moose and a dozen ducks.

Game was also in evidence at other times. This household moves to the Fall commercial fishing area early in
September. They live in a tent during the Fall fishing.

The baby is bottle-fed, and the harmock is

. . , in the second ī •

used. He is swaddled tightly in cradleboard wrappings, but the cradleboard is not used. This family was observed to use native herbal medicines in the treatment of children's illnesses and also to use the facilities of the nursing station at the R.C. mission.

There are occasional periods of a day or two when large numbers of relatives stay at the Mukoman house.

Toward the end of the summer, the Šišip household (to be described below) pitched a tent adjacent to the Young Mukoman house. This followed the marriage of the widowed Mrs. Šišip to "Old Mukoman," father of Young Mukoman.

The Muldiwa household

The household consists of Mukkwa, his wife, a boy of six, a girl of four, and a baby girl of one year. Mukkwa's widowed mother also lives with them, sometimes occupying a tent pitched next to the house. During the early part of the Summer, the Šišip household occupied a tent pitched next to the Mukhwa house. Following the marriage of Mrs. Šišip to Young Mukoman's father, they pitched their tent next to Young Mukoman's house.

Mukkwa speaks English fairly well, his wife

knows some English, and the boy knows a little.

Family income comes primarily from commercial fishing at which Mukhwa is quite successful to judge by his house and its furnishings. Dr. Nufeld's list describes him as a "successful fisherman."

The baby is breast fed, it is swaddled, and the hammock is used. Mrs. Mukhwa and Mukhwa's mother were frequently observed making and beading moose-hide moccasins. They were not observed using native medicines but they did avail themselves of the services of the RC mission nursing station.

The Sisip - Old Mukeman household

This household occupied a tent for the entire period of observation. For most of the Summer, the tent was pitched near the Mukhwa house. Later it was pitched near the house of Young Mukoman after the marriage (informal) of Abigail Šišip and Old Mukoman.

Abigail has eight children, but the older ones are actually present in the household only occasionally. (It is not unusual at either Berens or Flambeau for adolescents to stay with kin, moving from one household to another from time to time.) Occasionally her unmarried daughter and the daughter's three-year-old son are present. Her twenty-year-old son is also present only occasionally and the children of fourteen,

twelve, and ten are sometimes absent for extended periods.

Abigail's chief source of income until her remarriage was the government issue of rations and the "mother's allowance." Her twenty-year-old son fishes (non-commercially) and hunts, providing some additional subsistence.

Abigail and Old Mukoman both speak some English as do the school-age children.

Lac du Flambeau Households - 1952

The Mandamin household

Old Mandamin is eighty-eight and his wife is eighty-two. The other regular members of the household are a boy of five and his sister who is nearly three. Occasionally the mother of these children is present. Although the children call the Mandamins "grandfather" and "grandmother", the relationship of the children and their mother to the Mandamins is not at all clear. The father of these two children is now living with another woman who is legally married to a white man. The mother is living with a white man off the reservation. She returned to the Mandamin household briefly after the birth of a baby fathered by her current "husband."

Old Mandamin is the senior member of the Midewiwin and a leader in all the Indian religious ceremonies observed. He and his wife speak English only with considerable difficulty. The boy and girl who live with them are fluent in the Ojibwa language -- a rarity for children at Lac du Flambeau. Their mother also speaks Ojibwa fluently.

The chief source of income for this household is public old age assistance. Old Mandamin attempts to eke out this pittance by hunting and snaring rabbits. This activity appears to be even more important to him psychologically than it is economically.

Both of the old people regularly wear beaded buckskin moccasins and the man owns and uses a "war dance" drum and a water drum and rattles, (used in curing ceremonies). When the children's mother brought the new baby into the household, he was given a new pair of beaded moccasins with the traditional holes in the soles so he could not make the long journey to the land of the spirits. This was done on the insistence of the old people who also wanted the baby to be in a hammock. The baby is bottle fed and the hammock is not used.

The Waswagen household

The regular members of this recently formed

household are Waswagen, seventy-six, his wife "Annie," fifty-nine, her brother's widow (addressed as "Auntie") and the six-year-old daughter of Annie's son. The adolescent adopted son of "Auntie" -- her deceased sister's son -- is occasionally resident in the household. Other kin are also occasionally resident for periods of two days to a month.

The six-year-old granddaughter is usually addressed with a diminutive form of her Indian name rather than with her Christian name. Her mother is a Menomini, but she has been raised by her father's parents since the age of one. Her father's father with whom she and her grandmother lived until recently was a conservative old man, active in Indian ceremonial life. He is now bedridden in a state mental hospital where his illness is diagnosed as senile psychosis.

Waswagen is a man of exceptional character, whole-heartedly dedicated to maintaining Indian values. He is the real leader of the Midewiwin and the Drum Religion, although he defers to the older Mandamin in matters of cermonial form. He leads the rites for the dead, participates in curing ceremonies with water drum and rattles, and prepares herbal medicines. Annie also participates in all of these religious ceremonies —she is an active member of the Midewiwin and the Drum

Religion. The family uses the services of doctors as well as native medicines and ceremonies for curing the sick.

Annie speaks English well, though with Indian mannerisms, and can read it well enough for most purposes. Waswagen was raised off the reservation and never went to school. His English gives the impression of a translation from thoughts in Ojibwa. He cannot read or write, but has recently expressed interest in learning to read.

The family income is chiefly derived from various forms of welfare, but is supplemented by earning from waswagen's sale of "medicines" and of his services as a mide. In addition, he and his wife "made rice," and made maple syrup -- activities which necessitated their moving to the ricing area and the maple grove for periods of about a week. Waswagen also hunts, trans, spears suckers during the spring run, and snares rabbits in winter. As with Mandamin, these activities are even more significant psychologically than economically. Some income is also gained by tanning deer hides, from which Annie makes moccasins for sale as well as for their own use. (Some of the designs for beadwork are taken from Lyford's Ojibwa Crafts.)

Waswagen's preference for the old ways extends

to a taste for such foods as porcupine and skunk and he expressed his pleasure that Annie, in contrast to his previous wife, was willing to prepare these foods.

The Robinson household

This household was observed in 1952 and again in 1966. Since there were major changes in the membership of the household and in the roles of the members between these dates, it will be described first as it was in 1952 and then as it was in 1966.

The household consists (as of 1952) of Old Robinson and his wife, both about sixty, their son, twenty-seven, and the son's wife, nineteen, and two daughters, twenty-eight months and nine months.

Old Robinson and his wife are active participants in the Midewiwin, the Drum Religion, and other native ceremonies. The younger Robinsons are frequent spectators or marginal participants in these activities and their two-year-old child is often present at the dances. Old Robinson and his wife speak English with Ojibwa mannerisms and use it in talking with the granddaughter, but both are more at ease speaking Ojibwa. The younger Robinsons are fluent in English, but retain the Ojibwa manner of speech. If they speak Ojibwa,

it is only in private.

The chief source of support of this household is the wayes of the younger Robinsons. Both are steadily employed, he as a driver of fork lift trucks and bulldozers and she as a worker in the local electrical meter plant. This employment leaves the care of the children to their grandparents during most of the day. The baby is sometimes left with her mother's grandmother because the baby attacks her older sister and frightens her (report of mother).

Old Robinson has arthritis and no longer hunts, but his son hunts frequently, "makes rice," and spears fish during the spring "runs." These activities not only give him considerable satisfaction, they also add to the household's subsistence.

Old Mrs. Robinson makes beaded buckskin shirts and moccasins and the older child has a pair of moccasins which she wears. The baby is bottle-fed but the hammock is used.

The Robinson household in 1966

This is still an extended family bousehold, but there have been changes in its membership. Old Mrs. Robinson has died, and, in 1953, Young Robinson and his wife separated and he married again. The two

daughters stayed with their father. The older daughter is now married and living away from the reservation. The daughter who was an infant in 1952 is now a capable housekeeper and the chief caretaker of her four younger half-sisters in the Summer. She is paid for her services. She is a good student in high school. She also participates actively in the dances which are not on for tourists and to a limited extent in the ceremonies of the Drum Religion.

The children of the second Mrs. Young Robinson are girls of eight, seven, and six, and a baby girl of three weeks.

Their mother is not Indian in physical characteristics; her hair is light brown and her skin is fair and she is not on the tribal roll. She speaks English with definite Indian mannerisms and considers herself to be an Indian. The baby is bottle fed, but the hammock is used and it is tightly swaddled in the manner of infants who are put in a cradle-board.

Young Robinson still works for the same employer and his second wife, like the first, is employed in the meter plant. He continues to hunt, spear fish, and gather wild rice. Despite the clock-pacing necessitated by this employment of the adults, the children still have much of the freedom of eating times characteristic

of the Berens River Indians. That is, there is almost always some food available so that they eat when they feel like it, rather than on a schedule. For instance, the children were observed to eat cold pancakes when they got up, much as the children at Berens River ate bannocks whenever they felt like it.

Since 1952, the Robinsons have added running water, a bottle-gas cook stove, a television, and a telepone, but these somehow blend into the Indian style of furnishing and housekeeping and remain unobtrusive. The interior of the house seems much the same as it was in 1952 despite these changes. One change adds to the "Indian-ness." The baby's hammock is now in the "living room" whereas it was in the second-floor room in 1952.

Three of the large drums used in the ceremonies of the Drum Religion are now kept in the Robinson house. A song service was held in the Robinson's living room with the drum and the singers in front of the television while one of the children watched the service from beneath the television.

Young Robinson's participation in the Drum Religion was only peripheral in 1952, but he is now the ogima (or bhios") of a drum -- the drum which was used in the song service mentioned above.

 \mathbf{r}_{i} , \mathbf{r}_{i}

The Marshall household

This household, like the Waswagen household, is rather newly formed. Marshall returned to the reservation about three years ago after living elsewhere for thirty years. His wife has five children by two previous marriages. The two oldest, girls of eighteen and seventeen, are not often at home. A girl of nine and a boy of seven are regular members of the household. The youngest child, a boy of five, is in a tuberculosis sanatarium. Unlike the previously described Lac du Flambeau families, the Marshalls live in the "New Village."

Both of the Marshall adults are deeply involved in the Midewiwin, the Drum Religion, and the War Dance. Marshall was installed as "heater" of a drum at one of the coremonies which we observed. They were also observed participating in curing ceremonies and the rites for a mide who died. The younger children participate in the observances of the Drum religion and are present at other ceremonies.

The Marshalls speak Ojibwa fluently, but the children are not learning more than a smattering of the language.

Their subsistence is derived from welfare payments, from Mrs. Marshall's work as a cook at a resort during the tourist season, and from odd jobs.

Marshall also does some fishing as a means of adding to their diet.

The Fitch household

Betty Fitch has had six children by a previous marriage and has two by this one. The three oldest children are not living with her and her present husband. The oldest of the children living at home is a girl of ten; the youngest, a girl of 1½ months.

The Fitches do not participate in native religious ceremonies nor in either of the Christian churches. Jack Fitch has had an extensive exposure to native religious practices — his mother is a member of the Midewiwin and an active participant in the Drum Religion. Betty's ten year old daughter has an Indian name. She is addressed by a diminutive form of the name, but the whole name is not revealed. This suggests more native orientation than is revealed by the other characteristics of this household.

Both Fitches, but especially Jack, speak English well. Betty has more Ojibwa mannerisms in her speech.

The income of the household is derived from Betty's employment in the electronics plant. This leaves Jack in charge of the house and the children, a role in which he is neither happy nor shillful.

No native artifacts were observed in the pos-

session of the members of this household.

The baby is bottle-fed and spends most of her time in a crib.

This is a disorganized household. Betty and Jack have frequent drinking bouts in which he sometimes beats her. Neither the children nor the house are well-cared-for, although they do get improved attention on weekends.

The Fitch household in 1966

In 1966, the Fitch household consists of Betty and two "bearders" -- one a young man of about eighteen and the other, Ben Ellis, a man of thirty-five. This household is included because Betty regularly cares for the five-year-old son and two-year-old daughter of her daughter, Mary St. Louis, while Mary and her husband are employed in the electronics factory.

This household has more of an Indian flavor in 1966 than it did in 1952. There is a tanning frame built into the trees in the front yard and Betty was observed making and beading buckskin moccasins and other buckskin objects for sale to tourists. Betty also participates regularly in the dances put on for tourists. In the dances she wears a beaded dress and moccasins.

The St. Louis household

This household consists of Jim St. Louis, thirty, his wife Mary, twenty-four, and their two children, Billy, five, and Alice, two. Mary is the daughter of Betty Fitch. She was ten years old when the Fitch family was observed in 1952.

Their house is located near the house of Jim's widowed mother (who is white). Jim and Mary are both employed at the electronics plant, and the children are usually left with Mary's mother, Betty Fitch, during working hours. Most of the observations of the St. Louis children were made at Betty's house. Since Jim spent most of his non-working hours fishing, it was not possible to observe his interaction with the children.

The family seems to be secular rather than religious in orientation. Their identification is, however, clearly Indian, and Mary is known by a diminutive form of her Indian name. Mary's speech shows many Indian mannerisms, but she knows only a few Ojibwa words. She does beadwork for sale to tourists, but otherwise there are no traditional objects in the house.

The Reed household

This household consists of Pauline and her five

children, ages four to twelve. Their house is located very close to that of Pauline's mother and the family seems to live at her mother's house as much as at Pauline's. Pauline's father is dead and her mother does not have a man. Pauline's sister is sometimes present and occasionally a boy of about sixteen, to whom Pauline refers as a nephew. The father of Pauline's children is also the father of the two children who were living with the Mandamins in 1952. He was living with Pauline in 1952, but not in 1966.

Religiously, this household is quite secular and seems to have little contact with anyone with either a native or Christian religious identification. Pauline knows a few Ojibwa words, but can not speak the language. All of the family speak English with Indian mannerisms.

The income of this household seems to be derived primarily from the employment of Pauline's mother and from the occasional employment of Pauline at a resort.

This household, at least in the summer of 1966, seemed to be part of a matrilocal extended Samily, but the absence of any adult males certainly made it an atypical family.

No traditional objects or practices were observed.

The Clauson household

This household consists of Reger Clauson, his wife, Agnes, Agnes' aged and blind mother, and their grandson, aged seven. Two other grandsons are frequently present. All observations on these children were made in this household.

Roger is white and Agnes is Indian. The grandsons are children of two of the sons of Roger and Agnes.

All the children of Roger and Agnes are on the tribal
roll. The boys! mothers are Indian and are no longer
married to the boys! fathers. The present wives of the
boys! fathers (the boys! step-mothers) are also Indian.

Roger is a relatively successful small businessmen and their house is much the best of the houses of any of the families observed. It gots some Indian flavor because Agnes! mother makes birch-bark baskets for sale and one room is full of her sumplies and her inventory of finished baskets.

Roger does not share the Indian emotional restraint. One one occasion, his wife had calmly told the resident grandson that she was angry. Roger said to her, "You're mad. Why don't you say you're mad?" Agnes did say that she was "mad", but she did't sound much more emotional than she had the first time.

This household is secular in orientation and there is little centact with those Indians who maintain traditional ceremonial activities. Evidences of traditional culture are slight, except that Agnes and the grandsons sheak English with Ojibwa mannerisms.

The Hunt household in 1952

The Hunts regard themselves as Indians and they have considerable knowledge of native customs, but their acceptance of the values of the white middle class is quite genuine and fairly complete. John and Ann are both about thirty. They have three children -- two boys, seven and five, and a girl of four.

They attend the Roman Catholic Church regularly and are devout in their observance of the tenets of the faith.

Their income is primarily derived from John's employment in the electronics plant where he holds a position of considerable responsibility. Their subsistence is considerably improved by John's success as a hunter and fisherman and by their use of a freezer. They also harvest wild rice.

The interior of their house is finsihed and painted (both unusual). The living room is furnished with a table, chairs, and a sofa; it is not used for a bedroom and nothing is stored along the walls or

under the sofa or table. They have a bottle-gas cooking stove, electricity, and running water. The housekeeping is such that one who has been raised on our standards of electricity and running water. The housekeeping is such that one who has been raised on our standards of electricity.

A row of evergreens has been planted along the road in front of the house and flowers have been planted near the front entrance.

The Hunt household in 1966

The three children who were observed in 1952 have left the reservation, the two boys for employment and thegirl through marriage. There are two children born since 1952; a girl of thirteen and a girl of six.

John has achieved a position of even greater responsibility with the electronics company which has grown considerably. He is active in the Knights of Columbus and the Lions Club and has been elected to the Tribal Countil.

Their house has been further improved by the addition of a complete bathroom and numerous appliances and new furniture.

John continues to hunt and fish and "make rice", but this is clearly a household which largely adheres to the values of the white middle-class, despite the identi-

fication of its members as Indians.

Summary

The sample consists of thirteen households, four of them from Berens River and nine from Lac du Flambeau. As judged by the criteria developed in the first part of this chapter, the four Canadian families and the first three of the Wisconsin families (Mandamin, Waswagen, and Robinson) can be considered quite conservative. The next four of the wisconsin families (Marshall, Fitch, St. Louis, and Reed) are clearly less conservative, although the Marshall's participation in native religious activities buts them relatively closer to the conservative group. The Clausons and especially the Hunts are clearly distinct from all of the others. The Hunt's fuller acceptance of the values of the white middle-class sets them apart from the Clausons. This sample has a definite conservative bias despite the inclusion of the Clausers and the Hunts. Four of the nine Lac du Flamboau Camilies are from the five percent of the population which carries on native ceremonial observances.

CHAPTER IV

THEORIES OF THE NOTIVATION AND DEVELOPMENT OF OJIBWA RESTRAINT

The literature provides two theories of the way in which this type of personality functions, and two theories of the learning process through which this personality is developed. The two theories of the functioning of Ojibwa typical personality will be considered first.

Theories of the Motivation of Restraint

Perhaps an example from my field notes will give some body to the reports of Ojibwa restraint. The nature and extent of this restraint can best be illustrated by an extreme example. The incident which is described below is the most extreme example of non-aggressive reaction to provocation in my field experiences. The incident occurred at an evening ceremony of the Drum Religion held in one of the houses in the Old Village at Lac du Flambeau.

The description of the incident must be prefaced by some information about the Drum Religion which is needed to understand the provocation. The drum, itself, is sacred. It is addressed as "Our Grandfather"

(nisomiss); it may be touched only be certain designated officials of the group; if the drum is moved from one house to another, or if a mistake is made in its hardling or ritual, a dance must be held "to apologize to the drum"; only sacred songs may be played upon it; and, finally, no one who has been drinking should approach the drum (from field rotes 1952, see also Barrett 1911; Densmore 1929). With these prescriptions and prohibitions in mind, the significance of this incident becomes clearer.

Dancing had been going on for some time when an Indian, who was obviously very drunk entered. At first, he created only a mild disturbance by trying to get responses from the children. The drumming and singing went on, but the adults who were not drumming become quite tense. When none of the children were willing to respond to his overtures. he took a drumstick and sat down at the drum. He began to play a "squaw dance" song. ("Squaw dances" are solely for entertainment, the music is therefore profane.) He also yelled such things as, "Come on, let's dance, let's have some fun!" All of the Indians became tense and silent and the singers left the drum. No one said anything to the drunken man or made any effort to prevent further sacrilege. Eventually he tired of trying to get participation from the group, sat on a bench along the wall, and went to sleep.

As soon as the drunk left the drum, the appointed officials hastily put the drum away. Then, one of the old men came to me and asked me to tell the Indian policemen to come and take the drunk away because the old people who lived in the house did't want him staying there all night.

The provocation here is certainly extreme, the drunk has committed and is continuing to commit multiple sacrilege (in addition to having interrupted the "song service"), yet no one makes any effort to stop him or to punish him for his sacrilegious behavior.

Introduction

The first of these theories is so widely accepted as an explanation for restraint that it is often taken for granted as the only possible explanation.

This theory has been advanced by Hallowell to explain Ojibwa behavior. The central notion of this theory is that hostile people avoid all behavior which is likely to annoy some other person because they fear that the other person will retaliate and injure them severely.

I shall call this theory the "fear of others theory."

The second theory of Ojibwa functioning is derived from the writings of Freud, Erikson, and Bettelheim. The central notion of this theory is that hostile
cople avoid all aggressive actions because they fear
that such actions will do more damage to the other
person than they wish to do. I shall refer to this as
the "fear of self theory."

Hallowell's statement of the "fear of others" theory of Ojibwa behavior

Hallowell does not concisely state this theory in one location but it is all to be found in Chapters 6 and 15 of Culture and Experience. Briefly stated, this theory says that, despite a tendency to be hostile, the Ojibwa suppress "...any impulse to tell someone else what to do..." (1955:135) and refrain from "overt aggression in face-to face situations..." (1955:278) because, "...there is always the possibility that another man's nower may be greater than my own. To provoke him to exercise it by offending him, is always a gamble," (1955:290) and "... the best defense is to avoid offense..." (1955:290). This forbearance is found even "...in all the daily face-to-face relations with others that inevitably must have aroused emotions of annoyance, ancer, or a desire to criticize or correct..." (1955: 137).

Restatement of the "fear of others" theory

In short, this theory asserts that when annoyed, the typical Ojibwa would "like to" choose a course of action which would be likely to produce the outcomes of stopping the annoyance and punishing the person who caused the annoyance. But he refrains from actions

which are likely to produce these outcomes because he believes these actions would be very unlikely to produce another outcome which he wants -- avoidance of severe injury to himself through the other's retaliation.

Some implicit assumptions of this theory

Hallowell seems to have used (probably without full awareness) the idea that meanle unconsciously calculate the expected value of possible actions as a basis for deciding which action to choose. His argument (presented above) that the Indians avoid offending others because of the "possibility that another man's nower may be greater ... " suggests that Hallowell conceives of the Indians' estimating this probability. That he sees them giving up all other outcomes which might be secured by an offensive action because of a small probability of suffering severe retaliation indicates that Hallowell believes that the Indians value the outcome "not being seriously injured" more than they value any combination of other outcomes. This version of the theory can easily be stated within the expected value frame work developed in contemporary decision theory.

The expected value framework for predicting the choices of an individual

For any course of action which an individual might choose, there are at least two (and usually more) possible results, or <u>outcomes</u>, of choosing that course of action. Usually, the individual profess some of these outcomes to others. That is, each outcome has a value for him and the values are not all the same.

For each course of action, there is a certain objective probability that each of the outcomes will occur.

The individual forms estimates of these probabilities based on his experience -- estimates which may diverge quite widely from the objective probabilities.

These estimates are called the individual's <u>subjective</u> probabilities.

Thus, for each course of action, each outcome has certain value to the individual and also a certain probability of occurrence. In choosing a course of action, the individual must take into account both the values of the outcomes and the probabilities of their occurrence for each course of action. This is taken to be done through "calculation" of the expected value of all courses of action. The subjective expected value (to an individual) of a given course of action is the <u>sum of the products</u>

its <u>subjective probability of occurrence</u>. The notion involved here is exemplified by the old adage, "A bird in the hand is worth two in the bush."

It is not asserted that the individual whose behavior we are trying to predict actually goes through any such process of calculating expected value. What is asserted is that such a process of calculation permits the observer to predict the subject's probable choices with increased accuracy.

Informal statement of the "fear of others" theory in the expected value framework.

In a situation in which some other person is being annoying, the Ojibwa are pictured as valueing three outcomes: (1) stopping the annoyance, (2) injuring the annoyer, and (3) avoiding being seriously injured themselves.

These three outcomes and their negates can occur in eight possible combinations. Hallowell indicates that the Ojibwa value any of the four combinations which include avoidance of injury to themselves much more highly than they value any of the four combinations which involve such injury. Their most highly valued combination of cutcomes is indicated to be that in which the annoyance is stopped, the annoyer is

punished, and the self is uninjured.

To produce this outcome seems to require an aggressive action -- certainly the annoyer can not be punished otherwise. The Ojibwa, however, rarely choose aggressive actions and the usual outcome achieved is: the annoyance is not stopped, the annoyer is not punished, and the self is not injured.

Hallowell explains this preference for nonoffensive actions by asserting, in effect, that the
Ojibwa believe that any action which is likely to
produce the stopping of the annoyance and the punishment
of the annoyer also has a high enough probability of
producing retaliation with severe injury so that they
do not choose offensive actions in this situation.

This amounts to saying that, given these values of the Ojibwa and their subjective probabilities, the expected value, to the Ojibwa, of non-offensive actions is enough greater than the expected value of offensive actions so that they almost always choose non-offensive actions. This places their subjective probability estimate of retaliation at the center of the explanation of their choices.

Since the subjective probability of retaliation plays such a central role in this theory in accounting for Ojibwa choice of non-offensive courses of action,

then the behavior of Ojibwa toward persons who are believed to be incapable of retaliation should provide a clear test of this theory. The reactions of Ojibwa adults to offending children should provide such a test since the Ojibwa believe that no child possesses any supernatural powers. They are explicit that children are extremely vulnerable as a result of this lack (Landes 1937:117-118).

This version of the "fear of others" theory can be partially formalized by assigning numerical values to the values of the outcomes and to the subjective probability estimates of the Ojibwa which are consistent with Hallowell's statements. Given some other reasonable assumptions, we can determine the levels of the values of the Ojibwa and the subjective probabilities required to predict, within this framework, their very high probability of choosing non-effensive actions when annoyed. Such a formalization of this theory is presented in the appendix.

The "fear of self" theory in the literature.

This theory appears in Freud's 1909 "Notes on a Case of Obsessional Neurosis" although not expressed clearly and concisely. One sentence will serve to indicate Freud's use of this theory: "From that time for-

ward he was a coward -- out of fear of the violence of his own rage" (Freud 1963:63).

Bettelheim has also employed this theory in the interpretation of extreme inhibition:

In order to protect herself and those around her from her own violence, whose consequences she exaggerated megalomanically, she inhibited herself in every direction: intellectually, physically, and socially she was unable to budge (1950:207-208).

Erikson, too, follows this theory in interpreting a case of severe inhibition of the use of the hands in a little girl (1963:195-208).

Each of these three children seems to have formed a self-image in which the self is conceptualized as extremely powerful and dangerous to others—even adults. The little girl described by Erikson indicated through her drawings that she conceptualized her hands as huge and powerful. In each case, the child's inhibition of aggressive actions rests in part on the image of the self as extraordinarily powerful.

Statement of the "fear of self" theory

This theory asserts that, when annoyed, the typical Ojibwa would "like to" choose a course of action which would be likely to produce the outcomes of stop-

ping the annoyance and punishing the person who caused the annoyance. He refrains from actions which are likely to produce these outcomes because he believes that due to his great powers, any action he might choose which is likely to produce these outcomes is very likely to produce the outcome of the very serious injury or death of the other person — an outcome which he wishes to avoid, since he also has warm feelings toward the other. The person believes that there is a high probability of doing serious damage to someone clse if he takes any offensive action at all when he is angry.

Informal statement of the "fear of self" theory in the expected value framework

In a situation in which some other person is being annoying, the Ojibwa are pictured as valueing three outcomes, two of which are the same as those involved in the "fear of others" theory: (1) stopping the annoyance, and, (2) punishing the annoyer. The third outcome, however, is quite different from that in the "fear of others" theory. The third outcome involved in this theory is that of serious injury to the annoyer.

As in the other theory, those four combinations of outcomes which include the third outcome, in this

		ı

case "no serious injury to the annoyer," are valued much more highly than any of the four outcomes which include "serious injury to the annoyer." In this theory, the most highly valued combination of outcomes is considered to be that in which the annoyance is stopped, the annoyer is punished, and the annoyer is not seriously injured.

It would seem that this outcome could be produced by a limited aggressive action which would punish
the annoyer without doing him scrious injury. The
Cjibwa seldom attempt such actions and the most frequent
outcome actually produced is: the annoyance is not
stopped, the annoyer is not punished, and the annoyer
is not scriously injured.

The preference of the Ojibwa for non-offensive actions is explained within this theory by the assertion that they believe that any action they might choose which is likely to stop the annoyance and punish the annoyer also has a high probability of doing serious injury to the annoyer.

This can be rephrased to say that, given these values of the Ojibwa, and the subjective probabilities, the expected value of offensive actions is so low that they almost always choose non-offensive actions. In this case, it is their subjective probability estimate of doing

serious injury to the annoyer which is central to the explanation of the Ojibwa's choices.

As in the case of the "fear of others" theory, this theory will be tested by observing adult behavior toward offending children. In this case, the critical issue is not whether or not children posses retaliatory capabilities, those are irrelevant. The important question is the extent to which adults believe that directing or attaking a child will injure the child.

This theory, too, is presented with the additional precision of partial formalization in the appendix.

Theories of the Development of Ojibwa Restraint

The central problem of theories of development

As they were stated above, the two theories of the way in which the Ojibwa type of personality functions explain the individual's preference for non-aggressive behavior in terms of the individual's <u>beliefs</u> regarding the consequences of aggressive and non-aggressive behavior. That is, they explain the individual's behavior in terms of his subjective probability estimates. One theory asserts that the individual estimates that, following aggressive behavior on his part, the probability that he will suffer severe in-

jury to himself is unacceptably high. The other theory asserts that it is the estimated probability of serious injury to someone else following aggressive behavior which is unacceptably high. Within this frame work, then, a theory of development must account for the formation of estimates of the probability of these outcomes.

Although it is not usually stated in these terms, this seems to be the kind of problem with which learning theorists have long been concerned. It seems appropriate, therefore, to consider the problem of the development of Ojibwa personality as a problem in learning and to use observations of the Ojibwa to test two different conceptions of the learning process.

Two conceptions of the learning process

These two conceptions of the learning process differ primarily in the extent to which reasoning on the part of the learner is considered to be involved. That group of theories in which reasoning or inference is considered to play a very small part in the learning process will be called "Group I." The group of theories in which reasoning or inference is considered to play a larger role in the learning process will be called "Group II." Both theories apply equally to "conscious"

learning and to "unconscious" learning. The behavior with which we are concerned here is largely unconscious. That is, the people would find it difficult to verbalize their values and beliefs about interpersonal behavior.

Group I learning theories characterized

Group I theories are alike in containing the assumption (usually not explicit) that an individual will come to expect outcome O1 to follow course of action C1 if and only if he has chosen course of action C1 and it has been followed by outcome O1.

Some examples may help to clarify the way in which this assumption differentiates Group I learning theories from those of Group II. (Group II theories will also be exemplified below.)

A child (whom we will call "Jee") will come to expect that <u>punishment</u> (O1) will follow if he anneys (C1) an adult <u>only if</u> he actually annoys an adult and punishment follows. This statement also says that, <u>if</u> Joe does not annoy an adult, he will not come to expect that punishment will follow his annoying an adult.

Joe will come to expect that making an <u>angry</u> attack (C1) on an adult will <u>seriously</u> injure (O1) the adult only if Joe actually makes an angry attack and

	f			
			•	

the adult is injured. Further, if Joe never makes an angry attack on an adult, then he will never come to expect that an angry attack will result in serious injury to an adult.

Group II learning theories characterized

vidual will come to expect outcome O1 to follow course of action C1 <u>if</u> the individual chooses course of action C1 and it is followed by outcome O1. <u>But</u>, Group II theories assert in addition, that the individual will, under some conditions, come to expect that outcome O1 will follow course of action C1 <u>if</u> outcome O2 follows course of action C2, even though the individual has never chosen C1. The conditions which make this possible are that the individual sees a relationship between C2 and C1 and between O2 and O1.

Group II theories, like Group I theories, hold that, if Joe annoys an adult and gets punished, he will come to expect punishment for annoying adults and Group II theories also hold that, if Joe angrily attacks an adult and the adult is injured, he will make the connection between his behavior and the injury to the adult. In addition, Group II theories assert that Joe will come to expect that serious injury to an adult

(01) will follow an angry attack (C1) by Joe even though Joe never makes an angry attack on an adult if Joe makes a very mild, non-angry attack, such as a disturbing noise, (C2) and the adult accents the injury (disturbance) without either retaliation or controlling Joe's attack (O2). In other words, Joe reasons that, since the adult doesn't prevent Joe from annoying him, he would not (or could not) prevent Joe from injuring him severely if Joe were to make an attack.

These examples oversimplify the case, since both theories will be stated in terms of the probabil-ities that the outcomes will follow the specified causes of action. Mowrer has stated a Group I learning theory in terms of probabilities.

Mowrer's partial statement of a Group I learning theory in terms of subjective probability estimates

. . . we must assume that probability has, first of all, a basis in the real world which, by means of learning can be gradually reporduced in the nervous system so as to give a sense of conviction, or set of expectations, which corresponds fairly precisely (one would hope) to prevailing external reality. Thus, of necessity, we assume an external reality ([objective] probability) and an internal (personalistic) one; and learning is the process whereby the latter comes to match the former (1960b:347) (italics in original).

A more complete statement of Mowrer's position

In the context of the rest of Mowrer's discussion

of learning, a fuller statement of this Group I theory in terms of subjective probabilities would be: If

- (1) in any given class of situations, in which several courses of action and several outcomes are available.
- (2) the individual chooses each of the courses of action available in that situation many times, then
- (3) the individual's estimates, for each of these courses of action, that it will produce each of the outcomes, will correspond "fairly precisely" to "prevailing external reality" or the "best estimates" of these probabilities.

Implications of Group I theory for the Ojibwa

If this learning theory is correct, and if it is correct that the Ojibwa do not choose offensive actions because they believe that such actions have high probability of producing severe retaliation, then the objective probability of such retaliation should correspond with the subjective probabilities. The probability that an offended person will take direct retaliatory action toward an offender is very low. It is this observation from which the "emotional restraint" of the Ojibwa is inferred. It is also this observation which makes it necessary to assume that any

effort at retaliation must be by the indirect route of sorcery. But the <u>objective</u> probability that someone will be injured through sorcery is zero — if one accepts contemporary scientific assumptions. There is, therefore a large discrepancy between the subjective probability of retaliation and the objective probability of retaliation.

Resolution of failure of subjective probabilities to correspond with objective probabilities

Such failures of correspondence between subjective and objective probabilities are not rare and they pose a problem for Group I theories. (See Mowrer 1950: ch 18 for a discussion of this "neurotic paradex.") One method, (the "fixation approach", of resolving this problem is to consider the present <u>subjective</u> probabilities as corresponding to the <u>objective</u> probabilities with which outcomes actually occurred in largely (but not completely) similar situations of the past.

This view is adopted by Buss:

The way to insure a generalized inhibition of aggression is to punish it in a variety of situations so that the individual learns that aggression is associated with so many stimuli that it is simply not safe to aggress (1961:59).

Dellard, et al also adopt this view: "...those actions cease to occur which, in the past, have been followed by punishment" (1939:33). Another method of dealing with this problem the "identification approach", holds that the child "identifies with" the rewarding and punishing parent -- a mechanism by means of which the child can reward himself for behavior previously rewarded by the parent (Sears, Rau, and Alpert 1965:5). Presumably, this also leads the child to punish himself for acts previously punished by the parents. Similar views are expressed by Bandura and Walters (1963:92-100), Cameron (1947:99-102), Parsons (1961:174-184), Spiro (1961:116-121), Whiting and Child (1953:240-242), and Berkowitz (1964:5).

Both approaches to dealing with this problem assert that the subjective probabilities which do not correspond with <u>present</u> "reality" do correspond with a "reality" which was experienced in the past when the subject was a child.

Summary statement of implications for the Ojibwa

If either the "fixation approach" or the "identification approach" is correct, the <u>objective</u> probability of severe punishment for offensive acts by Ojibwa <u>children</u> should correspond with the <u>subjective</u>

tive probabilities necessary to explain the behavior of Ojibwa adults within the fear of others theory.

Formal analysis of this theory reveals that this probability must be at least .45 in order to account for the behavior of Ojibwa adults (see appendix).

It is this implication of Group I theories which is to be tested.

Group II learning theories in the literature.

Concise and explicit statements of Group II
learning theories are not abundant in the literature.
Kelly argues that all people learn through an informal version of scientific hypothesis-testing and explicitly introduces the notion of indirect evidence:

A good scientist tries to bring his constructs up for test as soon as possible. But he tries them out initially in test-tube proportions. If hazards appear to be great, he will first seek some indirect evidence on the probable outcome of his trials (1955:13 emphasis supplied).

Indirect learning in the literature

This notion of indirect testing of hypotheses is an important feature implicit in explanations of the inhibition of aggressive behavior in some psycho-analytic case histories.

Freud's 1909 work, "Notes on a Case of Obsessional Neurosis" (1963:62-63) traces the beginning of the patient's inhibition of aggressive behavior to an incident in which the patient, at the age of three, concluded that his father was afraid of the boy's rage:

...he had done semething naughty, for which his father had given him a beating. The little boy had flown into a terrible rage and had hurled abuse at his father even while he was under his blows . . . His father, shaken by such an outburst of elemental fury, had stopped beating him . . . (1963:62-63)

The bey apparently continued to test the hypothesis that his father was afraid of him since he noted that the father never beat him again.

A similar use of the notion of indirect hypothesis testing occurs in Erikson's account of the treatment of a child with severe inhibition of the use of her
hands. In Erikson's interpretation, the little
girl's inhibition was due to her belief that her hands
were dam gerous to other people. This notion received
indirect confirmation for her when her handling of a
light plug was followed by a blown fuse and extinguished
lights (1963:195-208).

A more explicit statement of Group II theory in application to the development of restraint

The general notion of this theory is that the individual draws conclusions about what <u>would</u> happen if he were to choose a particular action in a critical situation from what <u>does</u> happen in a different situation when he chooses a different action.

In the critical situation, the first individual is angry at another individual (that is, the first individual puts fairly high value on the outcome of moderate injury to the second individual) but he places still higher value on not seriously injuring the second individual. From his experiences in another situation, he concludes that any action he might choose which has a high probability of producing moderate injury also has a high probability of producing serious injury. He comes to this conclusion despite the fact that he "never" chooses an action with high probability of producing moderate injury when he is in this situation. He does not choose this action because he hypothesizes that it might produce serious injury.

The first individual concludes that his hypothesis that a course of action with a high probability of producing moderate injury also has a high probability of producing severe injury to the second individual is correct because, in the second situation, in which he is <u>not</u> angry at the second individual, an action which has high probability of producing <u>slight</u> injury to the second person has a high probability of producing an acquiescent response from the second person.

(An acquiescent response is an action which involves no counter-offensive actions sufficient to produce a change to non-offensive behavior on the part of the first individual.)

The individual assumes that the probability that the hypothetical offensive action in the critical situation would produce severe injury to the other person is equal to the frequency with which his slightly offensive action in the second situation does produce an acquiescent response from the other.

For example, a child who is naughty, who offends an adult by being noisy, finds that, although the adult doesn't like his behavior the adult does not make him change to acceptable behavior. Since the adult does not control the child, the child concludes that the adult can not control him. Hence, the child infers that, if he made an angry attack on the adult, the adult would be seriously injured.

Testing the Theories of Functioning and of Learning

The two learning theories can be tested adequately only if the subjective probability estimates necessary to account for the typical behavior of the Ojibwa are known. Estimates of minimum values of these subjective probabilities have been obtained from the partial formalizations of the two theories of the way in which this type of personality functions. Since the tests of the learning theories are dependent on the theories of functioning, tests of the learning theories also constitute tests of the functioning theories. The theories of adult functioning and the theories of learning can be tested with the dame data.

Analytical categories

We are interested in classes of outcomes of situations in which a child's behavior has been offensive to an adult. These outcomes are defined in terms of the behavior of the adult in response to the offensive behavior of the child and whether the child's behavior remains offensive or becomes acceptable following the adult's response.

Offensive Behavior of a child

Offensive behavior of a child is any behavior

which might offend (or irritate or annoy) an adult. Basically such behavior is aggressive, but, because we are concerned here with extremely mild aggression in most cases, I have used the term offensive rather than the term aggressive, which seems to connote stronger actions. The term offensive should not be construed in the sense to which defensive is an antonym. A child who has been asked to do a chore, and who withdraws before doing the chore is behaving offensively in the sense intended here. This corresponds fairly closely with the sense of "changeworthy behavior" as used by Sears (Sears, Maccoby, and Levin 1957).

Adult Responses to offensive behavior

The possible responses of the adult which are relevant to the theories of concern are: the adult may (1) neither tell the child what to do nor punish him. (2) tell the child what to do but not punish him, (3) not tell the child what to do but punish him, and (4) both tell the child what to do and punish him.

Outcomes of the situations

With each of these four adult responses, the child's behavior may remain offensive or it may become acceptable (non-offensive). All together, there are

then eight possible outcomes. The theories imply that different relative frequencies of these outcomes should be observed for the class of situations in which the child's behavior has been offensive to the adult.

Specification of the operational meanings of these terms

Offensive Behavior is any behavior which makes it more difficult for another to produce outcomes which he values. Especially for children, offensive behavior includes:

- (a) quarreling, verbal or physical:
- (b) disturbing adults by requests, or by noise or commotion in the vicinity of the adult:
- (c) acting in a manner potentially damaging to property, including touching adult tools or work in process;
- (d) behaving in a manner potentially dangerous to the self;
- (e) failing to comply with any indication, however subtle, of the adult's wishes;
 - (f) failing to conform to household routine;
 - (g) violating ritual prohibitions.

Behavior of an adult in response to offensive behavior of a child.

Directing is a brief expression for "telling

another what to do." In general <u>directing</u> is less intensely offensive that <u>attacking</u>. The term will be used to refer to any behavior on the part of one person which is intended to influence another individual's choice of a course of action. <u>Directing</u> specifically includes:

- (a) using imperative sentences addressed to another:
- (b) requesting that another person perform some act;
- (c) warning of the possible outcomes of choosing a course of action, such as telling a climbing child, "You'll fall:"
- (d) asking a "question" which conveys intentions to have the other change his behavior, such as a mother asking a child who is sitting in her lap, "Do you want to get down?"
- (e) physically controlling the behavior of another, such as grasping and holding a running child; (This kind of "directing" may sometimes be so strongly offensive as to constitute an attack.)

In general, attacking is offensive to a greater degree than is directing. Attacking includes those actions which are primarily intended to produce physical or psychological pain. Specifically included in attacking are:

- (a) all actions, such as striking, which may produce tissue damage and physical pain;
- (b) scolding, telling another that he is
 unacceptable or "bad;"
 - (c) ridiculing another;
- (d) restricting the interaction of the individual with others:
 - (e) depriving the individual of a privilege.

Attacking behavior which is a response to offensive behavior of another is called <u>punishing</u>. For the purposes of this study, <u>any</u> punishment in the above sense will be considered "severe" punishment.

Some problems in determining outcomes

It is relatively easy to determine which of the four courses of action an adult has chosen. It is sometimes more difficult to determine whether a child's behavior should be considered to be acceptable or offensive. There are two problems here.

The first problem concerns cases of "pseudo-compliance" which may either initiate or continue offensive behavior. These cases involve compliance with the "letter" of the instructions, but not with the "spirit." Perhaps some examples will make this distinction clear. The first is from Berens River.

A man is building a fire. He calls his six year old son who comes to him. The man tells the boy to get some firewood. The boy gets a small stick on which he has been whittling and puts in in the fire, then returns to his play.

This is regarded as offensive behavior on the part of the boy, since the man's intention was clearly to have the boy collect a pile of wood.

The second case involves a six-year-old Lac du Flambeau girl who lives with her grandparents. These incidents take place at a ceremonial dance held in a house in "The Old Village."

The girl is playing with a boy and his sister. She becomes very noisy. Three women (not including her grandmother) tell her to be quiet. After each admonition she is quiet for a few seconds, then becomes noisy again immediately.

This is taken to be a continuation of the offensive behavior, since the intention of the adults was for her to remain quiet and she did not.

Another problem arises when there is more than one adult within range of the child's offensive behavior and all ignore it. When this occurs, it is scored only for the adult who is primarily responsible for the child.

The second problem concerns cases in which, following some adult direction or punishment, the child's

offensive behavior clearly continues. Since the child must eventually choose some acceptable action, under what conditions should this be considered a situation with an outcome involving offensive behavior? The decision concerning this problem was often made in the field and the decision to consider that the outcome involved offensive behavior depended on several factors. those cases where the adult directed or punished, one important factor was the length of time the offensive behavior persisted without further directing or punishing by the adult. There must have been sufficient time for the adult to become aware that the child was continuing his offensive behavior and to direct or punish if he chooses. This time varies with details of the situation such as the nature of the offensive behavior and the case of adult observation of the continued offense.

More important than the lapse of time is the tendency of the adult to shift his attention from the child who continues to misbehave. This attention shift gives the impression of a deliberate (but not necessarily conscious) decision to ignore the child's continuing offense.

In case where the adult neither directs nor punishes, and the child's behavior eventually becomes acceptable (perhaps because the adult has made an adjust-

ment), the situation will be considered to have ended with the child's behavior still offensive. Group I theories would seem to hold that adult adjustment to the child's offensive behavior which led to acceptable behavior would constitute reward of the offensive behavior and hence would be likely to lead to higher, rather than lower, frequency of choice of offensive behavior.

Analysis of sample incidents

As indicated above (p 88), eight possible outcomes of a situation on which the child's behavior has
been offensive have been distinguished on the basis of the
implications of the theories being tested. The primitive outcomes are:

The eight combinations of these are:

```
Oa = oa ob oc! = not directed, not punished, acceptable
Ob = oa ob oc! = directed, not punished, acceptable
Oc = oa ob oc! = not directed, punished, acceptable
Od = oa ob oc! = directed, punished, acceptable
Oe = oa ob oc = not directed, not punished, offensive
Of = oa ob oc = directed, not punished, offensive
Og = oa ob oc = not directed, punished, offensive
Oh = oa ob oc = directed, punished, offensive
```

Implications of the Group I learning theory

Group I theory implies that Oc, Od, Og, and Oh (the four outcomes which include severe punishment) should occur for each child with a combined relative frequency of at least .45. That is, on at least 45% of the occasions in which a child is offensive, he should be punished to account for the high degree of restraint. (This frequency estimate is derived from the formal analysis of the fear of others theory.

Appendix).

show an acquiescent response to the child's offensive behavior with a relative frequency of at least .75.

An acquiescent response was defined as one in which there occur no offensive actions sufficient to produce a change to acceptable behavior on the part of the child (p. ?7.)

That is, on at least 75% of the occasions when a child offends an adult, that adult does nothing which actually results in the child's changing to acceptable behavior.

Oe, Of, Og and Oh are outcomes involving an acquiescent response by the adult. The combined relative frequency of these four outcomes should be at least .75 according to the formal analysis of the fear of self theory (Appendix).

The analysis of some incidents of adult-child interaction which follows will indicate the use of these outcome categories.

Behavior samples analyzed

The following behavior samples involve two siblings of the St. Louis family, Alice, two, and Bill, five. They are in interaction with their maternal grandmother, Betty, while their mother, Mary, is away at work. The first incident described is the first observation of this family on this field trip. Betty and Mary are known to the field workers from previous field trips. The following incidents took place outside the front door of Betty's house.

(1) After initial greetings, Betty said, "This is my little granddaughter," pointing to Alice. I asked Betty for name of granddaughter. Betty said to child, "Tell him your name." Child made no response and Betty said nothing further.

Offensive behavior on the part of Alice begins with her failure to comply with the adult's direction. Betty gave no further directions and did not punish the child and the child never complied with the original direction. In terms of the outcome categories, once the child's behavior became offensive, the adult chose the action

"neither direct nor punish" and the child's behavior remained offensive. The outcome of this situation is therefore classed as "Oe."

(2) Alice went to the door of the house and tried to open it. Betty jumped up and opened it for Alice and followed her inside. Alice shortly emerged eating a soda cracker and followed by Betty.

Alice's attempt to enter the house is regarded as offensive behavior on two counts -- it seems to be a non-verbal request which disturbs her grandmother and Alice's going alone after something in the house is a threat to property. Betty's reaction is considered to be "neither directing nor attacking" since she does not attempt to stop the child from disturbing her nor from getting into the house and getting the cracker -- Betty aids her, perhaps as a device to limit the possible damage to the cracker supply. This incident is considered to have ended with the child's behavior still offensive since it became acceptable through an adjustment by the adult to the child's demands. The outcome of this situation thus falls in the class Oe. Two more incidents, essentially similar to this one occurred, adding two more outcomes to the Oe class. (3.4)

(5) Alice again went to the door and tried to open it. This time Betty held the door shut and said, "Uh, Uh. Later!" Betty also remarked to my wife, "She's really got me running!" Alice desisted from her efforts to get in for the remainder of this observation period.

This time, Betty's response to the offensive behavior is directing and not punishing and the child's behavior becomes acceptable, hence this outcome falls in the class Ob.

(6) Bill and some other boys were throwing pebbles at each other in the area around the house. This was noticed by Betty who ignored it.

Throwing stones at other children and being a target for their throws is offensive behavior since it is potentially dangerous to the child and to property. Since Betty noticed the offensive behavior and neither directed nor punished the boys who continued their activities, the outcome of this situation fails in class Oe.

Later, there were three incidents separated from each other by several minutes, in which Betty directed the boys to stop throwing stones (7,8,9). In each case, the boys continued and Betty shifted her attention to other matters. The outcomes of these three situations all fall in the class Of.

(10) Billy told me a story about having driven a snowmobile. Betty listened awhile and then said, "You lie, Now I know you lie! Your dad drove it. You just rode." Billy looked down, smiling faintly, and said no more about snowmobiles.

This incident is considered to have the outcome Oc, since Betty told Billy that he was bad, but did not tell him explicitly to change, and Billy's behavior became acceptable.

Methods of testing the Hypotheses

Selection of appropriate tests

Each of the theories purporting to explain Ojibwa emotional restraint implies a hypothesis for each adult, that, when the adult is offended by a child, the adult should be observed to choose each of four courses of action with a specified relative frequency. The theories differ in the relative frequencies of choice which they imply. Similarly, each of the learning theories implies a hypothesis for each child. Each child should be observed to receive specified frequencies of either punitive or acquiescent responses when he offends an adult. These theories also differ in the relative frequencies which they imply.

In all of these cases, the question is one of

whether or not observed frequencies are consistent with the theoretical expected frequencies. Therefore, the appropriate tests are one-sample tests of goodness of fit. Since none of the data involve measurement in an interval or ratio scale, only non-parametric tests are appropriate (Siegel 1956:29-33).

A test for the theories of emotional restraint

In testing the theories which purport to explain Ojibwa restraint, the concern is with the goodness of fit of observed frequencies with expected frequencies in four categories. The X^2 test must be ruled out because some of the expected frequencies are smaller than 5. The Kolmogorev-Smirnov test not only lacks this objection, but may be in all cases a more powerful test than the X^2 test (Siegel 1956:51). The Kolmogorov-Smirnov test will therefore be used for testing the hypotheses which purports to explain the individual behavior of the adults.

A test for the learning theories

For tests of the learning theories, where the data are dichotomous, either the binomial test or the χ^2 test would be appropriate. Since expected frequencies here will also often be less than 5, the χ^2 test will

not be usable and the binomial test will be employed.

Statistical hypotheses from the theories of restraint
Statistical hypothesis from the "fear of others" theory

Formal Analysis of the "fear of others" theory yeilds two sets (depending on the assumptions) of probabilities of coice of courses of action by the adult. (Matrix Bl, p.216and Matrix B2, p.221). According to Matrix Bl, the adults should choose Cl with a relative frequency of .11, C2 with relative frequency of .22, C3 with relative frequency of .35 and C4 with relative frequency of .32. The outcomes which involve adult choice of Cl are Oa and Oe, the outcomes which involve C2 and Ob and Of, outcomes which involve C3 are Oc and Og, and outcomes which involve Cl are Od and Oh. Thus, according to this hypothesis: p(Oa+Oe) = .11, p(Ob+Of) = .22, p(Oc+Og) = .35, and p(Od+Oh) = .32. The cumulative distribution of these expected frequencies is used in the Kolmogorov-Simirnov test (Siegel 1956:47-52). The theoretical cumulative distribution of outcomes is then as follows:

Course of action C4 C3 C2 C1
Theoretical cumulative .32 .67 .89 1.00
frequencies

(The order of listing of the outcomes has been reversed to facilitate computation.)

Statistical hypothesis from the "fear of self" theory

As formalized (Matrix C1, p.223) the "fear of self" theory implies that adults who are offended by a child should choose C1 with a relative frequency of .91, C2 with a relative frequency of .039, C3 with a relative frequency less than .029, and C4 with a relative frequency of .021. The outcomes which involve C1 are Oa and Oe, those which involve C2 are Ob and Of, those which involve C3 are Oc and Og, and the outcomes which involve C4 are Od and Oh. The theoretical cumulative frequencies of these outcomes are as in the table below:

Course of action	C4	C3	C 2	C1
Theoretical cumulative frequencies	•02	•03	•09	1.00

Both of these theoretical distributions will be tested by comparing the observed distributions with the theoretical distributions for goodness of fit using the Kolmogarov-Smirnov test.

Example of K-S test

As an example of the use of this test, the hypo-

thesis deduced from the "fear of others" theory is tested below for one adult using the incidents presented as samples of the field data.

TABLE 4.1

SAMPLE APPLICATION OF K-S TEST TO TEN INCIDENTS OF ADULT-CHILD INTERACTION UNDER A HYPOTHESIS FROM THE "FEAR OF OTHERS" THEORY.

Course of action	Cl_{l}	C3	C2	C1
f = observed frequencies	0	1	L _E	5
Fo(X) = theoretical cumulative distribution under Ho	•32	.67	.89	1.00
Sn(x) = cumulative distribution of observed choices	•00	•10	•50	1.00
Fo(X) - Sn(X) $D = .57$	•32	•57	•39	0

The K-S test concentrates on the largest <u>difference</u> between the theoretical cumulative distribution of outcomes and the cumulative distribution of observed outcomes and indicates the probability of a difference as large as that observed if the observations are a random sample from the theoretical distribution. In this example, the largest value of this difference (denoted "D") is .57. The table of critical values of D indicates that the probability of D as large as .57 with N = 10 is less than .01. Therefore it seems unlikely, on the basis of this example, that the "fear

of others" theory is a satisfactory explanation of the behavior of Betty in these instances.

Derivation of statistical hypotheses from the theories of learning statistical hypothesis from the Group I theory

The Group I theory asserts (in essence) that the subjective probability of retaliation for offensive behavior must be equal to an objective probability of retaliation experienced earlier. The formalizations of the "fear of others" theory indicate that the minimum subjective probability of retaliation sufficient to account for the high probability of choice of Cl is .45 (Matrix Bl p.216). The outcomes which involve retaliation, or punishment, are Oc, Od, Og, and Oh. Thus the statistical hypothesis is:

Statistical hypothesis from the Group II theory

The Group II theory asserts (in essence) that the subjective probability of doing serious injury to another by an aggressive act is equal to the objective probability (experienced earlier) of getting an acquiescent response to an offensive act. The formalization of the "fear of self" theory (Matrix Cl. p. 223)

•

indicates that the subjective probability of doing serious injury to another must be about .75 in order to account for the very high probability of choice of C1. Therefore the probability that an adult will respond acquiescently to the offensive behavior of a child must be about .75. An adult responds acquiescently if he chooses a course of action which does not produce an outcome involving acceptable behavior on the part of the child. The four outcomes which involve continued offensive behavior on the part of the child are Oe, Of, Og, and Oh. The occurrence of any of these outcomes indicates an acquiescent response on the part of the adult. The statistical hypothesis is therefore:

Ho:
$$p(Oe + Of + Og + Oh) \geq .75$$
.

Both of these hypotheses will be tested by use of the binomial test of goodness of fit.

An example of the use of the binomial test

As an example of use of the Binomial test for the Group I hypothesis, the five incidents (previously described) of interaction between Alice and her grand-mother, Betty, resulted in four outcomes classed as Oe and one outcome classed Ob. That is, not one of these

five observations fell into the class predicted by Ho. The binomial test gives the probability of observing x or fewer instances of the specified class. Since, in this case, x=0, the test will give the probability of exactly 0 observations if the true frequency is .45. This probability is calculated from the formula:

$$p(x) = {N \choose x} p^{X}Q^{N-x}$$
 (Siegel 1956:37)

Substituting in this formula we get:

$$p(0) = {5 \choose 0} (.45)^{0} (.55)^{5}$$

$$p(0) = 1 \times 1 \times .0503$$

$$p(0) = .05$$

(In the actual application of this test in Chapter V, the probabilities were obtained by use of the computer or from tables.)

Therefore, if Ho is correct, the observation of no cases which are consistent with Ho when N=5 is improbable -- i.e. the hypothesis can almost be rejected at the .05 level for this child on the basis of this example.

The tests described and illustrated above make it possible to decide for each adult which theory (if either) better predicts his behavior and, for each child, which theory (if either) better predicts the kind of responses to his offensive behavior which he experiences. The acceptance or rejection of any of these theories as an explanation of the functioning or development of Ojibwa typical personality depends on the proportion of the sample which the theory explains.

If it were certain that the sample of people were random and if the true proportion of typical personalities in the population were known, it would be expected that the proportion in the sample would not differ significantly from the proportion in the population. Unfortunately, the sample is not random and information about the proportion of the population whose personalities fit the typical pattern is limited and is based on non-random samples. The information available about the sample and the population does permit some rough estimates as to the proportions to be expected.

Relative frequency of typical personalities in the populations studied

There is little published information on which to base a conclusion concerning the actual proportions of the Ojibwa who display the hostility and restraint

which are taken to constitute the "core" of the typical personality. Lowenfels! analysis of children's drawings from Lac du Flambeau led her to conclude that all of the children showed "constriction" or restraint and that 63% of these children were "severely overcontrolled" (Quoted in Barnouw 1963:282). This suggests that the proportion showing the typical personality should be near 60% to 65%. An analysis of Hallowell's primary records of Rorschach protocols from the two locations found that 70% of the Lac du Flambeau subjects gave 50% or more pure form responses, which is one accepted measure of overcontrol. Eighty-seven percent of the subjects from the Lakeside group gave 50% or more pure form responses (Tetting and Hutchins 1966). The two studies, taken together, suggest that 60% or more of the adult population in each place should be typical Ojibwa and that 60% or more of the children may be expected to be in the process of developing the typical personality. This expectation about the children is based not only on Lowenfels analysis of children's drawings, but on Hallowell's conclusion that the typical personality has persisted through many generations of contact with people of western culture.

Characteristics of the sample

A separate chapter has been devoted to the characteristics of the families which are included in the sample. This chapter seems to justify the conclusion that the sample is probably biased toward families with a relatively traditional orientation. If the assumption is made that those families with the relatively more traditional orientation (as judged by certain social characteristics) are more likely to behave in the typical fashion, then it seems justified to conclude that the sample does not under-represent the relative frequency of typical personalities. Boggs has presented considerable evidence that behavior varies with these social characteristics. (1954: Ch 2). will therefore be assumed that, if the behavior of 40% or more of the sample is inconsistent with the hypothesis derived from a particular theory, the hypothesis can be rejected and the theory from which it was deduced questioned.

CHAPTER V

RESULTS

Theories of the Motivation of Restraint

The "fear of others" theory

We will begin with the two theories of the motivation of Ojibwa restraint. The first of these two, which was derived from Hallowell's (and the Ojibwas') attempts to explain this restraint, has been called the "fear of others" theory. Briefly and informally stated, this theory asserts that the Ojibwa refrain from directing or attacking another Ojibwa who is annoying them because they fear that doing so will lead the other to retaliate by means of sorcery. Since the Ojibwa are also hostile, if this theory is correct, then an Ojibwa who has been annoyed by someone who lacks magical powers should readily attack a defenseless annoyer. Since children are held to lack magical powers, it should be expected that Ojibwa adults would attack (punish) annoying children with high frequency.

A formal decision model of the typical Ojibwa as this very restricted theory assumes him to be was constructed (see appendix). From this model, it was

calculated that the typical Ojibwa, when annoyed by a child, would choose C1 (neither direct nor punish) with a relative frequency of .11; that he would choose C2 (direct but not punish) with a relative frequency of .22; that he would choose C3 (not direct but punish) with a relative frequency of .35; and that he would choose C1 (both direct and punish) with a relative frequency of .32.

Observed responses: composite treatment

Three or more responses to annoying behavior of children were observed for 29 adults. The total number of responses for these 29 adults is 671. Of these responses, 350 (.52) were C1, 298 (.44) were C2, 13 (.02) were C3, and 10 (.02) were C4. Table 5.1 compares this observed distribution with the theoretical distribution deduced from the "fear of others" theory.

TABLE 5.1

DISTRIBUTION OF OBSERVED RESPONSES OF TWENTY-NINE OJIEWA ADULTS COMPARED WITH THE THEORETICAL DISTRIBUTION FROM THE "FEAR OF OTHERS" THEORY

	Courses		of Action*	
	Cſţ	C3	C2	C1
theoretical distribution observed distribution			• 22 • 44	

^{*}The order in which the courses of action are listed has been reversed to facilitate computation in the K-S statistical test.

Inspection of Table 5.1 indicates that there is little correspondence between the observed relative frequencies of choice of the four courses of action and the theoretical relative frequencies. Where the theoretical frequencies are high, the observed frequencies are low and vice versa.

Observed responses: individual treatment

The composite observed frequencies, of course, present an average picture of the responses of all twenty-nine adults, whereas the theory purports to predict individual behavior. Table 5.2 presents the data individually for each of these twenty-nine adults. Table 5.2 includes a Kolmogorov-Smirnov test of the significance of the observed deviation from the theoretical frequency for each adult.

TABLE 5.2

OBSERVED RESPONSES OF ADULTS TO OFFENDING CHILDREN AND TEST OF HYPOTHESIS FROM "FEAR OF OTHERS" THEORY FOR EACH OF TWENTY-NINE ADULTS

f = observed frequency of choice of each course of action

Fo(X) = theoretical cumulative distribution of choices under Ho from the "fear of others" theory.

Sn(X) = cumulative distribution of observed choices.

D = maximum / Fo(X) - Sn(X) /

p = probability associated with D under Ho

Adult No. 1 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	CL; 0 •32 •00	C3 0 •67 •00	L du F C2 11 •89 •65	C1 6 1.00	N = 17 D = .67 p < .01
Adult No. 2 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cli 1 •32 •04	C3		C1 8 1.00 1.00	N = 26 D = .63 p < .01
Adult No. 5 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₄ 0 •32 •00	C3 2	L du F C2 6 .89 .67	C1 4 1.00	_
Adult No. 6 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4	C3	C2 15 •89	C1 11 1.00 1.00	N = 28 D = .60 p < .01

TABLE 5.2 -- continued

Adult No. 7 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	0 •32 0 •32	. 0 .67 0	L du F C2 2 .89 .29	C1 5 1.00 1.00	N = 7 D = .67 p < .01
Adult No. 15 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/ Adult No. 20	Pauline Re Cl ₄ 0 •32 •00	c3 0 •67 •00	L du F C2 37 .89 .82	196 C1 8 1.00 1.00	N = 45 D = .67 p < .01
Course of action	Cl _±	C3	CZ	C1 1l ₁ 1.00 1.00	N = 40 D = .614 p < .01
Adult No. 21 O Course of action f Fo.(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ 0 •32 0	C3 1 •67 •C3	C2 8 .89 .28	C1 23 1.00 1.00	N = 32 D = .6l ₁ p < .01
Adult No. 22 Y Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	•32	•67	. 89	1.00	N = 6 D = .72 p < .01
Adult No. 23 E Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	unice Robis Cl ₄ 0 •32 0 •32	nson C3 0 •67 0	L du F C2 2 .89 .22	195 C1 7 1.00 1.00	N = 9 D = .67 p < .01
Adult No. 24 A Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	rlene Robis C4 0 •32 0 •32	0 .67 .67	L du F C2 3 .89 .06	196 C1 l:7 1.00 1.00	N = 50 D = .83 p < . 01

TABLE 5.2 -- continued

Adult No. 25 J Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4 0 •32 0		. 89	C1 22 1.00	
Adult No. 31 Am Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ 1 •32 •08	Gen C3 0 •67 •08	L du F C2 3 .89 .33	C1 8 1.00	N = 12 $D = .55$ $p < .01$
Adult No. 40 Jo Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₄ 1 •32 •02	C3 -67 -08 -59	• 89	C1 42 1.00	N = 61 D = .59 p < .01
Adult No. 41 B Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	· 32 0	C3 2 .67 .03	C_{2}	C1 25 1.00	2,1966 N = 70 D = .6ly p < .01
Adult No. 42 O1 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₄ 0 •32 0	C3	^	C1 3 1.00	N = 3 $D = .89$ $p < .01$
Adult No. 43 Ber Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		C3 1 •67 •11:	L du F C2 8 •89 •71	C1 l ₄ 1.00	$ N = 1 l_1 \\ D = .53 \\ p < .01 $
Adult No. 51 Ma Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	rion Marsh: C4 1 •32 •02 •30	C3 1 •67 •03	L du F C2 lili .89 .71	C1 19 1.00	N = 65 $D = .614$ $0 < .01$

TABLE 5.2 -- continued

Adult No. 63 Frank Mukkwa Course of action Cl ₄ f 0 Fo(X) .32 Sn(X) 0 /Fo(X) - Sn(X)/ .32	C3 0 •67 0	B.R. C2 5 .89 .42	1952 C1 7 N = 1: 1.00 D = .0 1.00 p < .0	67
Adult No. 64 Maggie Mukko Course of action C4 f 0 Fo(X) .32 Sn(X) 0 /Fo(X) - Sn(X)/ .32	C3 0 •67 0	B.R. C2 l4 .89 .17	1952 C1 19 N = 2 1.00 D = . 1.00 p < .0	72
Adult No. 70 Young Mukoma Course of action Cl ₄ f 0 Fo(X) .32 Sn(X) 0 /Fo(X) - Sn(X)/ .32	C3 1 •67 •20	B.R. C2 3 .89 .80	1952 C1 1 N = 5 1.00 D = .1 1.00 p = .1	47
Adult No. 71 Nary Mukoman Course of action C4 f 1 Fo(X) .32 Sn(X) .07 /Fo(X) - Sn(X)/ .25	C3 0 .67 .07	B.R. C2 0 .89 .07	1952 C1 13 N = 11 1.00 D = .6 1.00 p < .6	82
Adult No. 76 Abigail Šiš Course of action Cl ₁ f 0 Fo(X) .32 Sn(X) 0 /Fo(X) - Sn(X)/ .32	C3 C3 .67 .67	B.R. C2 6 .89 .30	1952 C1 14 N = 20 1.00 D = .0 1.00 p < .0	67
Adult No. 80 Wasse Course of action Cluf f 0 Fo(X) 32 Sn(X) 0 /Fo(X) - Sn(X)/ 32	C3 0 •67 0	B.R. C2 1 .89 .33	1952 C1 2 N = 3 1.00 D = .0 1.00 p < .0	
Adult No. 81 Mrs. Wasse Course of action C4 f OFo(X) .32 Sn(X) /Fo(X) - Sn(X) / .32	C3 0 •67 0	B.R. C2 2 .39 .15	1952 C1 11 N = 1 1.00 D = 1.00 p <	3 74 01

117

TABLE 5.2 -- continued

Adult No. 101 Ag Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4 2 •32 •10	C3 0 •67 •10	L du F C2 10 .89 .60	
Adult No. 121 Ma Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Čl ₁ 0 •32 0	Couis C3 0 •67 0	C2 11 •89	1966 C1 1l ₁ N = 25 1.00 D = .67 1.00 p < .01
Adult No. 990 Marketing for (X) Sn(X) /Fo(X) - Sn(X)/	C4 0 •32 0	C3 0 •67 0	L du F C2 5 .89 1.00	1952 C1 0 N = 5 1.00 D = .67 1.00 p < .01
Adult No. 992 Ma Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Сц 0 •32 0	C3 O .67 O	L du F C2 5 89 1.00	1952 C1 0 N = 5 1.00 D = .67 1.00 p < .01

Table 5.2 confirms that inference made from the composite data presented in Table 5.1. The null hypothesis derived from the "fear of others" theory can be rejected at the .01 level for twenty-seven of the twenty-nine adults. For the other two adults, the probability that the null hypothesis is correct is equal to .15 in one case and less than .10 in the other.

Types of punishment observed

The punishments which were administered tended to

1	,			•	
•		1	•	•	
	•			•	
					*
•			-	•	
•	•				
	•	¢		•	

be mild as well as infrequent. The following incidents represent five of the first six incidents of punishment (in order of coding, not of observation) in my notes. The remaining incident of the first six is quoted in the scoring examples in Chapter IV.

D is a girl of six, Annie is D's grandmother.

Annie Waswagen at treadle-operated sewing maching.

D began to move the belt of the sewing machine up and down about a half inch. Annie said, "Get away from there," in a rather loud growl, turning her head toward D rapidly as she growled. D drew back, startled, but did not move away from sewing machine. A little later she began to touch the belt lightly with her forefinger. No response from Annie. (Flambeau 52)

Since the growl was enough to startle D, it was considered to be a punishment.

B is a boy of six. G is a playmate. Marion Marshall is B's mother. Marion baking bread. The two boys came into the house. B said G wanted a drink. Marion launched into a tirade about "...Didn't he have any water at his own house?..." Both boys listened without saying anything or moving and with blank faces. B went and got himself a drink. G remained standing near door. (Flambeau 52)

D and E are brothers. D is eight and E is four. H is their sister, five. Maggie Mukoman is their mother. D and E sitting on ground near path. I sat down near them, we talked a little. H came out of house and screamed at them to do something I couldn't understand. D screamed back and remained where he

was. After a few minutes, Maggie cam out, walked down to us, talked rather loudly to the boys (my Ojibwa was not good enough to understand it), and led them off up to the house. (This was counted as a punishment for each boy.) (Berens 52)

This is the same household as in the preceding incident, two weeks later. R is a boy of six and Young Mukoman is his father. The children have been unusually quarrelsome today. Young Mukoman tells R to bring the ax. R just wanders around "in a fog." Young Mukoman speaks sharply to R using word, "maja" ("get going"). R still wandering in "fog". Young Mukoman cuffs him on side of head, twice. R goes out door and comes back with ax which Young Mukoman begins to sharpen. (Berens 52)

This is the only incident in which I observed a child actually to receive a blow from an adult.

P is a girl of two. She is, as usual, staying at her grandmother's while her mother works. Ben is a boarder at the grandmother's house. P has been running through the house. Ben has repeatedly told her to stop, without success. Finally, he picks her up and puts her on a chair. She stays put. (Flambeau 66)

Summary of results for "fear of others" theory

These data offer no support for the "fear of others" theory. The theory does not provide any basis for the correct prediction of the behavior of even one adult of this sample in the critical situation. Adult Ojibwa rarely punish offending children even though the children lack the capacity to retaliate.

The "fear of self" theory

Perhaps the alternative theory, which has been called the "fear of self" theory, will provide better predictions of the behavior of the sample adults in the critical situation.

Briefly and informally stated, the "fear of self" theory asserts that the typical Ojibwa refrains from directing or attacking another Ojibwa who is annoying him because he fears that to do so may do the other serious injury (physical or psychological). If this theory is correct, and if it is assumed that the Ojibwa believe children to have the same vulnerability to direction and attack as they believe adults to have, then adult Ojibwa should treat children in very much the same manner in which they treat other adults. From a formal decision model of the typical Ojibwa as this simple theory assumes him to be, it was calculated that the typical Ojibwa, when annoyed by another would choose C1 (neither direct nor attack) with a relative frequency of .91; that he would choose C2 (direct but not attack) with a relative frequency of .Oh: that he would choose C3 (not direct but attack) with a relative frequency of .03; and that he would choose Ch (both direct and attack) with a relative frequency of .02.

The same data which were used to test the "fear

of others" theory will be used to test the "fear of self" theory.*

Observed responses: composite treatment

Of the 661 responses of these twenty-seven adults, 350 (.53) were C1, 288 (.44) were C2, 13 (.02) were C3, and 10 (.02) were C4. (Relative frequencies do not add to 1.00 because of rounding.) Table 5.3 compared this observed distribution with the theoretical distribution deduced from the "fear of self" theory.

TABLE 5.3

DISTRIBUTION OF OBSERVED RESPONSES OF TWENTY-SEVEN OJIBWA ADULTS COMPARED WITH THEORETICAL DISTRIBUTION FROM "FEAR OF SELF" THEORY

	Co	of Action		
	Cl	C3	C2	C1
Theoretical frequency	•02	•03	• Ol:	•91
Observed frequency	.02	•02	•1 ₁ 1 ₁	•53

^{*}The data for adults 990 and 992 are ommitted hereafter. These adults were not members of the households of any of the children involved in the study. Because of the rule adopted earlier (Ch IV) that if more than one adult was present, only the response of the adult primarily responsible for the child would be scored, it was impossible to score Cl (neither direct nor attack) for either of these adults. Since Cl is predicted by the "fear of self" theory to be the most frequent response of Ojibwa to offending children, it would be misleading to include the responses of adults for whom this score could not be included.

Figure 5.1 presents the composite observed distribution of choices of course of action compared with the theoretical distributions derived from both the "fear of others" theory and the "fear of self" theory.

As figure 5.1 shows, the correspondence between the observed relative frequencies of choice and the theoretical relative frequencies deduced from the "fear of self" theory is quite close for C4 and C3. The observations, however, depart rather widely from the predictions for C2 and C1. The sample adults chose C2 much more frequently than the "fear of self" theory predicts and they chose C1 correspondingly less frequently than predicted. Nevertheless the general form of the observed distributions is similar to the form of the distribution derived from the "fear of self" theory.

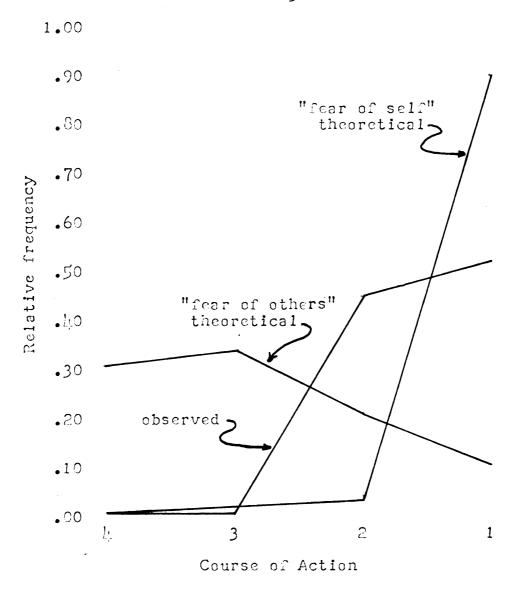


FIGURE 5.1

DISTRIBUTION OF OBSERVED RESPONSES OF ADULTS TO OFFENDING CHILDREN COMPARED WITH THE THEORETICAL DISTRIBUTIONS FROM THE "FEAR OF OTHERS" THEORY AND THE "FEAR OF SELF" THEORY

Observed responses: individual treatment

As in the case of the "fear of others" theory, it is individual behavior which the "fear of self" theory

purports to predict. Table 5.4 presents the data and a K-S test of significance of the deviations from the theoretical frequency for each adult.

TABLE 5.4

OBSERVED RESPONSES OF ADULTS TO OFFENDING CHILDREN AND TEST OF HYPOTHESIS FROM "FEAR OF SELF" THEORY FOR EACH OF TWENTY-SEVEN ADULTS

f = observed number of choices of each course of action

Fo(X) = theoretical cumulative distribution of choices under Ho from "fear of self" theory

Sn(X) = cumulative distribution of observed choices

 $D = \max \operatorname{imum} / \operatorname{Fo}(X) - \operatorname{Sn}(X) /$

p = probability associated with D under Ho

Adult No. 1 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4 0 •02 •00	C3 0 .05 .00		C1 6 1.00	N = 17 D = •56
Adult No. 2 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₄ 1 •02 •01	C3 0 .05 .01	L du F C2 17 •09 •69	C1 8 1.00	
Adult No. 5 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		min C3 2 .05 .17	L du F C2 6 •09 •67	C1 l ₊ 1.00	

TABLE 5.4 -- continued

t .					
Adult No. 6 Course of action f Fo(X) Sn(X) /Fo(X) - Sn (X)/	C4 2 .02 .07	C3 0 .05	C2	C1 11 1.00	F 1952 N = 28 D = .52 p < .01
Adult No 7 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cli 0 02 00	C3 0 •05	L du F C2 2 .09 .29	C1 5 1.00	N = 7 D = .20 p .20
Adult No. 15 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	• 00	eed C3 0 •05 •05	L du F C2 37 •09 •82	1 • 00	N = 1.5 D = 73 p < 01
Adult No. 20 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C↓ 0 •02	C3	C2 25	C1 1l ₁	•
Adult No. 21 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4 0 •02 •00	cbinson C3 1 .05 .03	L du F C2 8 •09 •28	195 C1 23 1.00 1.00	N = 32 D = .19 p > .20
Adult No. 22 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)	Young Rob Cli 0 .02 .00	inson C3 0 .05 .00	L du F C2 1 •09 •17	195 C1 5 1.00 1.00	N = 6 D = .08 p > .20
Adult No. 23 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Eunice Rob Cl ₄ 0 •02 •00	inson C3 0 .05 .00	L du F C2 2 •09 •22	195 C1 7 1.00 1.00	N = 9 $D = .13$ $D > .20$

TABLE 5.4 -- eontinued

Adult No. 2h. Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C1	C3	CO	C1
Adult No. 25 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl _L 0 •02	C3 0 •05	C2 7 •09	C1 22 N = 29 1.00 D = .15
Adult No. 31 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Annie Wass Cl ₄ 1 .02 .08	wagen C3 0 •05 •08	L du F C2 3 •09 •33	1952 C1 8 N = 12 1.00 D = .21, 1.00 p > .20
Adult No. 40 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	1 •02 •02	C3 1: •05 •08	L du F C2 1l ₁ .09 .31	1952 C1 li2 N = 61 1.00 D = .22 1.00 p > .05
Adult No. 41 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl _L 0 •02 •00	C3 2 •05	C2	C1 25 N = 70 1.00 D = .55
Adult No. 42 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Old Mary F C4 0 .02 .00	itch C3 0 .05 .00	L du F C2 0 .09 .00	1952 C1 3 N = 3 1.00 D = .09 1.00 p > .20
Adult No 43 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Ben Ellis C4 1 .02 .07	C3 1 .05 .1½	L du F C2 8 •09 •7! •62	1966 C1 ly N = 1ly 1.00 D = .62 1.00 p < .01

TABLE 5.4 -- continued

Adult No. 51 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	1	C2	1952 C1 19 N = 65 1.00 D = .62 1.00 p < .01
Adult No. 101 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		C2 10	8 N = 20 1.00 $D = .51$
Course of action f	.02 .05	11	1966 C1 1½ N = 25 1:00 D = .35 1.00 p < .01
Adult No. 63 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ C3 0 0 •02 •05 •00 •00	B.R. C2 5 .09 .112	1.00 p ≈ .10
Adult No 64 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	0 0 •02 •05 •00 •00	B.R. C2 l ₁ .09 .17	1952 C1 19 N = 23 1.00 D = .08 1.00 p > .20
Adult No. 70 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Young Mukoman C4 C3 0 1 .02 .05 .00 .17	C2	1952 C1 1 N = 5 1.00 D = .71 1.00 p < .01
Adult No. 71 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Mary Mukoman Cli C3 1 0 .02 .05 .07 .07	B.R. C2 0 .09 .07	1952 C1 13 N = 14 1.00 D = .05 1.00 p > .20

128

TABLE 5.4 -- continued

Adult No. 76 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl; 0 •02 •00	sisip C3 0 .05 .00	B.R. C2 6 .09 .30	1.00	N = 20 D = .21 p > .20
Adult No. 80 Course of action f Fo(X) Sn(X) /To(X) - Sn(X)/	Cl ₁ 0 .02 .00	B.R. C3 0 .05 .00	C2 1 •09 •33 •2l;	1.00	N = 3 $D = .2l_{+}$ p > .20
Adult No. 81 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		C3 0 •05 •00	B.R. C2 2 .09 .15	1.00	N = 13 D = .06 p > .20

Summary of results for "fear of self" theory

The individual data of Table 5.4 tend to confirm the conclusions from the comparison of the composite data with the two hypothetical distributions: although far from a perfect fit, the hypothetical distribution from the "fear of self" theory is a better fit to the data than the hypothetical distribution from the "fear of others" theory. The hypothesis from the "fear of self" theory can be rejected at the .01 level for twelve of twenty-seven individuals where the hypothesis from the "fear of others" theory can be rejected at this level for twenty-seven of twenty-nine individuals. For thirteen of the twenty-seven individuals there is at least

one chance in five that the observed sample of their behavior could be a random sample from a population of responses having the distribution deduced from the "fear of self" theory. There were no cases of similar fit between the individual data and the "fear of others" theory.

Separate treatment of the Berens River and Lac du Flambeau samples

Some additional evidence in support of the "fear of self" theory is provided by separating the data for the Berens River people from the data for the Lac du Flambeau people.

If the observations of the Berens River sample are separated from those of the Lac du Flambeau sample, we find that the observed frequencies of choice for the Berens River sample correspond much more closely to the frequencies deduced from the "fear of self" theory than do the observed frequencies for the Lac du Flambeau sample.

Empirical modifications of the "fear of self" theory

The comparatively close correspondence between the data and the hypothetical distribution deduced from the "fear of self" theory suggests that it might be possible to modify this theory so that the observed

frequencies of choice can be deduced from it. The process of modification begins with the observation that the major differences between the observed relative frequencies and the hypothetical relative frequencies occur in the greater observed relative frequency of choice of C2 and the correspondingly lower observed frequency of choice of C1.

Within the decision-theory framework an individual's probability of choice of a given course of action is taken to be a function of the expected value of that course of action relative to the expected values of the other courses of action. Thus, we account for the relatively greater observed than predicted frequency of choice of C2 by hypothesizing that C2 has higher expected value for the typical Ojibwa than was originally assumed. But, expected value depends on both the values assigned to the compound outcomes and on the subjective estimates of the probabilities of the various outcomes if C2 is chosen. The values of the outcomes and the subjective probability estimates were both assumed. The particular figures used being chosen because they led to the deduction of a frequency of choice of C2 which was consistent with the reports of the behavior of typical Ojibwa and because they did not seem unreasonable.

The expected value of C2 could be altered by

 altering the assumed values of the outcomes or by altering the assumed subjective probabilities (or both).

Rationale for modification of subjective probabilities

This section offers a speculative rationale for the hypothesis that Indian adults at higher levels of acculturation regard directing as less dangerous to children. The argument is based on the differences in the frequency and intensity of Indian interaction with whites at the two locations studied -- differences which roughly parallel the differences in frequency with which adults direct children.

At Lac du Flambeau there is a permanent population of whites which is about equal in size to the Indian population. Most of the permanent white residents are owners of small, independent businesses and quite middle-class in orientation. In the summer, the white population is greatly increased by two categories of summer people. The first category consists of people who own summer homes on the reservation and who are present enough to get to know some of the Indian people. The second category consists of people who are present for very brief periods and who may never return again -- people who stop at the numerous resorts and motels in the area. Both of these groups, of course, have middle-class

values.

The whites who are permanent residents exercise considerable influence on the Indians. This influence arises in part because of the special status that the northern Algonkians have apparently always given to the white man. The attitude of dependence toward whites with its corollary hope of receiving something from the white man has resulted in their giving considerable deference to whites. (See Barnouw 1963:152.) In addition, many of the whites with whom they interact most frequently actually do have power over the Indians. The teachers and administrators of the school have definite ideas on parental control of children which they do not hesitate to express to Indian parents. they and the school board have been influential in getting the tribal council to pass an ordinance making parents responsible for the school attendance of their children. This was, in 1952, the only tribal Ordinance which was fully enforced.

The Indians are also in frequent and significant interaction with the local merchants upon whom they are realistically dependent for credit. These merchants also give Indians unwanted advice on what they regard as "moral" issues. The Indians have no trouble getting the message that whites expect Indians to control their

children in the same fashion that whites do.

The Indians have frequent opportunities to see white parents constantly telling their children to do this or that or not to do some other thing. These occasions arise almost daily in the stores, the post office, the laundromat and at school functions which are well attended by both whites and Indians. My wife and I were especially impressed with the frequency with which white parents direct their own children in such places in contrast to the Indians at Flambeau.

In any case, the Indians at Flambeau seem to have gotten the idea that white people think that Indians should do more directing of their children. They do direct them more frequently than the Berens River people do theirs, but less frequently than do whites. They may have gotten the idea that directing is less dangerous than they thought partly from observing the absence of damage to white children. They must also have come to believe it is less dangerous from having done quite a lot of directing without disaster. It should be emphasized, however, that Indian parents seldom "sound as if they mean it" when directing children.

Many of the same factors operate at Berens
River, but to a much lesser extent. In particular, there
are fewer opportunities for the Indians to observe

white parents and children in interaction and fewer whites to tell the Indians to control their children.

Changes in the assumptions

Following this reasoning, I have assumed that the subjective probability of injuring a child by choice of C2 is lower than originally assumed and that it is lower for the Indians at Lac du Flambeau than it is for the Berens River Indians. It was possible to find subjective probabilities for each group which led to the deduction of theoretical probabilities of choice of C2 very close to the composite observed probabilities for the people of each location.

Data and the modified theory: the <u>post hoc</u> nature of these tests

Properly, each of these modifications of the "fear of self" theory should be tested with data not used in arriving at these modifications. Since this was not practicable at this time, the original data are being reused. The use of this data thus makes these tests of the modified theory completely post hoc in

^{*}These changes in the assumptions and the resulting changes in the theoretical probabilities of choice are presented in detail in the appendix.

nature. Hopefully, at some time in the future, it will be possible to make additional observations at Berens River and Lac du Flambeau to test these modifications.

Data and the modified theory: composite treatment

Table 5.5 compares the composite observed relative frequencies for the Berens River sample with the modified theoretical frequencies which result from the changes in the subjective probabilities assumed for the Berens River people.

TABLE 5.5

COMPARISON OF OBSERVED DISTRIBUTION OF CHOICES OF BERENS RIVER ADULTS WITH MODIFIED THEORETICAL DISTRIBUTION

	Co	urses	of Action		
	C4	C3	C2	C1	
Modified theoretical distribution	.017	•023	•25	•71	
Observed distribution	.011	.011	•23	• 74	

TABLE 5.6

COMPARISON OF OBSERVED DISTRIBUTION OF CHOICES OF LAC DU FLAMBEAU ADULTS WITH MODIFIED THEORETICAL DISTRIBUTION

	Courses		of Action	
	Cli	C3	C2	C1
Modified theoretical	•012	•016	•l:7	•50
distribution Observed distribution	.016	.021	•47	•50

Data and the modified theory: individual treatment

Table 5.7 presents the individual data for the seven Berens River adults and a K-S test of each of the individual variations from the "fear of self" theory as modified for Berens River.

TABLE 5.7

OBSERVED RESPONSES OF ADULTS TO OFFENDING CHILDREN AND TEST OF HYPOTHESIS FROM BERENS RIVER MODIFICATION OF "FEAR OF SELF" THEORY FOR EACH OF SEVEN ADULTS

f = observed number of choices of each course of action

Fo(X) = theoretical cumulative distribution of choices under hypothesis from Berens River modification of "fear of self" theory

Sn(X) = cumulative distribution of observed choices

 $D = \max i \min / Fo(X) - Sn(X) /$

p = probability associated with D under Ho

Adult No. 63	Frank I	Mukkwa	Berens	River	1952
Course of action	C.4	C3	C 2	C1	
F	0	0	5	7	N = 12
Fo(X)	•02	• OL!.	•29	1.00	D = .13
Sn(X)	•00	.00	•l ₁ 2		p > .20
/Fo(X) - Sn(X)/	.02	• 04.	•13	•00	
Adult No. 64	Maggie	Mukltwa	B.R.	195	52
Course of action	C4	C3	C2	C1	
f	0	0	<u> </u>	19	N = 23
Fo(X)	•02	• Olf	• 29	1.00	D = .12
Sn(X)	•00	•00	17	1.00	p > .20
/Fo(X) - Sn(X)/	•02	•Olı	.12	•00	

Adult No. 70 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ 0 •02 •00	nan C3 1 •04 •20	B.R. C2 3 .29 .80	1.00	N = 23
Adult No. 71 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/			B.R. C2 0 .29 .07	1.00	N = 15
Adult No. 76 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ . 0 •02 •00	0 0 0 0 0 0	B.R. C2 6 .29 .30	1.00	N = 15 D = .0h p > .20
Adult No. 80 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		C3 0 •01; •00	B.R. C2 1 .29 .33	1.00	N = 3 D = •0l ₁ . p > •20
Adult No. 81 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	• 00 • 02 • 01 • 01	C3 0 •0! •0! •0!	B.R. C2 2 .29 .15	1.00	

The null hypothesis from the "fear of self" theory can be rejected, even at the .20 level of significance, for only one of these seven adults. That is, there is a probability greater than one in five for six adults that the sample of his or her behavior came from a population of responses having the relative frequencies predicted by the "fear of self" theory as modified for Berens River.

Table 5.8 presents similar information for the Lac du Flambeau sample. In five cases, the null hypothesis derived from the "fear of self" theory as modified for Lac du Flambeau can be rejected at the .01 level of significance.* In two cases, the probability that the null hypothesis is correct is approximately.10. In the remaining thirteen cases, the probability for each case that the sample of behavior came from a population having the distribution of responses deduced from the Lac du Flambeau modification of the "fear of self" theory is greater than one in five.

TABLE 5.8

OBSERVED RESPONSES OF ADULTS TO OFFENDING CHILDREN AND TEST OF HYPOTHESIS FROM LAC DU FLAMBEAU MODIFICATION OF "FEAR OF SELF" THEORY

f = observed number of choices of each course of action

Fo(X) = theoretical cumulative distribution of choices under hypothesis from Lac du Flambeau modification of "fear of self" theory

Sn(X) = cumulative distribution of observed choices

 $D = \max i \min / Fo(X) - Sn(X) /$

p = probability

Adult No. 1	John Hunt		L du F	195	2
Course of action	CĻ	C3	C 2	C1	
f	Ó	Ō	11	6	N = 17
Fo(X)	•10	•03	•50	1.00	D = .15
Sn(X)	•00	•00	•65	1.00	p > .20
/Fo(X) - Sn(X)/	•01	•03	•15	•00	-

^{*}One of these cases conforms quite closely to the predictions of the original "fear of self" theory and another conforms quite closely to the Berens River modification of the theory.

TABLE 5.8 -- continued

Adult No. 2 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Ann Hunt Cl 1 01 01 02 03	C3 0 •03 •0! <u>+</u>	L du F C2 17 •50 •69	195 C1 8 1.00 1.00	N = 26 D = .19 p > .20
Adult No. 5 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4 0	C3 2 •03	C2 6 •50	C1 4 1.00	N = 12 D = .17 p > .20
Adult No. 6 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ 2 01 •07	C3 0 •03	n L du F C2 15 •50 •61	C1 11 1.00	N = 28 $D = .11$
Adult No. 7 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ 0	C3 0	L du F C2 2 •50 •29	C1 5	N = 7 D = •21
Adult No. 15 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	C4 0 •01	eed C3 0 •03 •00	C2 37 •50	C1 8 1.00	N = 45 D = .32 p < .01
Adult No. 20 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Old Robins Cli O .01 .00	on C3 1 •03 •03	L du F C2 25 •50 •65	C1	2, 1966 N = 40 D = .15 p > .20
Adult No. 21 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Old Mrs. Cl. 0 .01 .00	Robinson C3 1 •03 •03	L du F C2 8 •50 •28	195 C1 23 1.00 1.00	N = 32 D = .22 p ~ .10

	11	†0			
	TABLE 5.8 -	- contin	ued		
Adult No. 22 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Young Robe Cli O O1 O0	inson C3 0 •03 •00	L du F C2 1 •50 •17	195 C1 5 1.00 1.00	N = 6 $D = .33$ $p > .20$
Adult No. 23 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Eunice Roll Cli 0 .01 .00 .01	C3 0 .03 .00	L du F C2 2 .50 .22	195 C1 7 1.00 1.00	N = 9 D = .28 p > .20
Adult No 24 Course of action fro(X) Sn(X) /Fo(X) - Sn(X)/	Arlene Robi	C3 0 •03 •00	L du F C2 3 •50 •06	1966 C1 47 1.00 1.00	N = 50 D = .l.l.p p < .01
Adult No. 25 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ . 0 •01	C3 0 •03	C2 7 •50	C1 2 1.00	N = 29 D = •26
Adult No. 31 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₄ 1 • 01 • 08	wagen C3 0 •03 •06	L du F C2 3 •50 •33	1952 C1 8 1.00 1.00	N = 12 D = .17 p > .20
Adult No. 40% Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		03 -03 -08	L du F C2 14 •50 •31	C1	N = 12 D = .19
Adult No. 41 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/		C3 •03 •03 •00	L du F C2 43 •50 •64 •14	C1 25 1.00	$N = 70$ $D = .11$ $D \approx .10$

11:11
TABLE 5.8 -- Continued

Adult No. 42 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl _! 0 •01 •00	itch C3 0 •03 •00	L du F C2 0 •50 •00	1.00	
Adult No. 43 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cl ₁ 1 •01 •07	C3 1 •03 •1½ •11	L du F C2 8 •50 •71 •21	C1 <u>L</u> 1.00	N = 1½ D = •21 p > •20
Adult No. 51 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/			L du F C2 ly. •50 •71	C1 19 1.00	N = 65 D = .21 p < .01
Adult No. 101 Course of action f Fo(X) Sn(X) /Fo(X) - Sn(X)/	Cli 2 •01 •10	C3 0 .03 .10	C2	C1 8	N = 20 D = .10
Adult No. 121 Course of action f Fo(X) Sn() /Fo(X) - Sn()/			L du F C2 11 •50 •1:1:	C1 14 1.00	N = 25 D = .06 p > .20

Summary of results for modified "fear of self" theory

A very slight modification of the "fear of self" theory is sufficient to permit rather accurate predictions of the relative frequencies of choice of the four courses of action for the two samples as groups. The slightness of the modification which was required to

produce this improved accuracy of prediction is taken to support the "fear of self" theory.

The Learning of Emotional Restraint

Group I theory restated

In its most common form, this theory involves the implicit assumption that restraint is motivated by the values and subjective probabilities of the "fear of others" theory. It is assumed, following Mowrer, that the subjective probability of severe retaliation following an offensive act is equal to the objective probability of retaliation in the individual's previous experience. Thus the actual probability of punishment for an offensive act should be equal to the subjective probability of retaliation which is required to explain Ojibwa restraint. From the formal model of the typical Ojibwa as postulated by the "fear of others" theory, it was determined that a subjective probability of retaliation of .75 would be sufficient to explain Ojibwa restraint within that theoretical framework. Additionally, it was deduced that, if the individual were extremely cautious (if he were a nearly perfect maximizer of expected value), a relative frequency of punishment of .45 would be adequate to explain the reported restraint. The null hypothesis to be tested is

that the Ojibwa child receives punishment for offensive acts with a relative frequency equal to or greater than .1.5.

Group I theory: composite data

From the finding that Ojibwa adults do not punish offending children with the frequency predicted by the "fear of others"theory, it seems unlikely that children will experience punishment with a relative frequency of .45, but the theory calls for the experiences which the children have as individuals.

TABLE 5.9

OUTCOMES OF 767 SITUATIONS IN WHICH CHILDREN BEHAVED IN A MANNER OFFENSIVE TO ADULTS

	Child's behavior becomes acceptable following adult response			bed	ld¹s l come a ing ac	accept	tab1e		
		Adult	respon	se		Adı	ilt re	spons	e
No.	5	C2C2 135 17.6	9	10	338°	C2 22 3 29•2	5	0 0 0	Totals 767 100.1

Table 5.9 presents the composite data for all recorded instances of "misbehavior" by children. The adult responses which involve punishment are C3 and C4. The total number of such responses is 2h. The relative frequency of punitive responses if .031 which is sig-

nificantly below the hypothetical relative frequency, .145. ($\chi^2 = 5141$, p<.001).

There is a strong tendency for adults to adjust to the behavior of infants and children less than two years of age, which suggests the possibility of different reactions to such young children. The composite data ommitting the six children less than two years of age are presented in Table 5.10.

TABLE 5.10

OUTCOMES OF SITUATIONS IN WHICH A CHILD BEHAVES IN A MANNER OFFENSIVE TO ADULTS. CHILDREN UNDER TWO YEARS OF AGE OLLLITTED

	Child's behavior becomes acceptable following adult response			Bec	d¹s beh ome acc ing adu	ep ta	ble i	fo1 -	
		Adult	respor	nse		Adult	res	ons e	3
	C1	C2	С3	C4	C1	C2	С3	C4	Totals
No.	3 •5	133 20.7	8 1.2	10 1.6	270 42.1	216 33•7	1 •2	0	6 <u>1.1</u> 100.0

The total number of nunishments received is now nineteen rather than twenty-four* and the total number of incidents is reduced from 767 to 741. The relative

^{*}One rejected little girl between one and two years of age received the five punishments which make this difference. She was the youngest member of the Fitch household.

of punnshment is actually reduced to .030 by this change. It should be emphasized again that most of these punishments are mild by our standards.

Relative frequency of punishment at Borens River and at Lac du Flambeau

Table 5.11 presents the data for all observations at Lac du Flambeau and at Berens River separately.

TABLE 5.11

OUTCOLES OF SITUATIONS IN WHICH A CHILD BEHAVES IN A MANNER OFFENSIVE TO ADULTS. COMPARISON OF ALL OBSERVATIONS AT BERENS RIVER WITH ALL OBSERVATIONS AT LAC DU FLAMBEAU

		ceptab		becomes lowing nse	beco	i's beh ome acc ing adu	ep ta	ble :	fo1 -
		Adult	respo	nse		Adult	res	pons	2
	C1	C2	С3	C4	C1	C2	С3	CĻ	Totals
BR No	. 0	12 11.9	1 .0	2 2.0	75 74•3	11 10.9	0	0	101 100•1
LF No	• 58 • 8	123 18.6	8 1.2	8 1.2	305 45.8	212 31.8	8	0	666 100 . 2

There were twenty-one instances in which a child received punishment in 666 observations at Lac du Flambeau. This is a relative frequency of 0315. At Berens River there were three instances of punishment in 101 observations for a relative frequency of .0297.

This slight difference is far from significant.

X² = .01/31, p>.80. This finding that the frequency with which children experience punishment is low and nearly equal at both locations is consistent with the earlier finding that the sample adults punish children with nearly equal low frequencies in both places.

Individual data and tests of the Group I learning theory

The data for each child and a binomial test of the hypothesis from Group I theory for each child are presented in table 5.12.

TABLE 5.12

GROUP I LEARNING THEORY. NUMBER OF OFFENSIVE ACTS, NUMBER OF PUNITIVE RESPONSES RECEIVED, RELATIVE FREQUENCY OF PUNISHMENT, AND BINOMIAL PROBABILITY OF OBSERVED NUMBER OF PUNITIVE RESPONSES UNDER THE NULL HYPOTHESIS, FOR EACH OF THIRTY-TWO CHILDREN

N = number of offensive acts by child

x = number of times child received a punitive response
 from adult

X/N = relative frequency of punitive responses from adult

p(x) = binomial probability of x or fewer punitive responses under the null hypothesis: $(x/n \ge .45)$.

Lac du Flambeau children

Child	HH Name	\overline{N}	X	<u>x/n</u>	<u>p(x)</u>
1	Hunt	11	1	.091	•01393
2	Hunt	10	0	•000	•0025 3

1/47

		TABLE 5.12		<u>continued</u>	
Child	HH Name	\overline{N}	x	x/n	<u>(x) a</u>
3	Hunt	20	0	•000	•00001
10	Mandamin	liti	2	·01/5	.00000
11	Mandamin	29	3	.103	.00007
12*	Mandamin	5	0	•000	•05033
18	Reed	17	0	• 000	.0000l;
19	Reed	22	0	•000	.00000
20	Clauson	13	2	•15l ₊	.02691
21	Clauson	10	0	.000	•00253
22	Clauson	7	0	•000	•01522
26	Robinson	66	1	•015	•00000
28	Robinson	19	0	•000	•00001
29	Robinson	19	0	•000	.00001
30	Robinson	19	0	•000	•00001
31*	Robinson	58	0	•000	.00000
36	W a swa gen	2l;	1	.01;2	•00001
1,5	Fitch	22	1	.01:5	.0000l;
1:6	Fitch	51	0	•000	•00000
47*	Fitch	36	5	•139	.00003
55	Marshall	22	1	.01:5	•000014
56	Marshall	50	1	.020	.00000
60	St. Louis	21	2	•095	.00056
61	St. Louis	56	1	.010	•00000

^{*}Child less than two years of acc

TABLE 5.12 -- continued

Berens	River childre	<u>n</u>			
<u>Child</u>	HH Name	$\overline{\mathcal{M}}$	X	<u>x/n</u>	<u>р(х)</u>
65	Llukkwa	13	0	•000	•000l <u>:</u> 2
66	Llukkwa	13	0	.000	.000l;2
67	Llukkwa	13	0	•000	.0001;2
82	Mukoman	6	1	.167	•16357
81 _! *	Mukoman	10	0	•000	.00253
8 7	Wasse	12	0	.000	.00077
911	Sišip	7	0	•000	•01522
95	Šišip	9	0	.000	.00l _! 61

The null hypothesis (that the relative frequency of punishment is not significantly different from .1.5) can be rejected at the .05 level for 30 of the 32 children (93.75%). If the .01 level were used, it could still be rejected for 26 of the 32 children (81.25%) for whom 5 or more observations were recorded.

Summary of results of the Group I theory

It is clear that the observed relative frequency with which children experience punishment in both samples is significantly below the hypothetical minimum relative frequency (.45) deduced from this

[&]quot;Child less than two years of age

version of Group I theory. Neither the composite data nor the individual data offer any support for the theory that the emotional restraint of typical Ojibwa is produced by frequency and severe punishment.

Group II learning theory

This application of the theory rests on the assumption that restraint is motivated by the values and subjective probabilities of the "fear of self" theory. Mowrer's notion that subjective probabilities come to match objective probabilities is retained in a modified form. Rather than holding that the subjective probabilities of a given outcome match the objective probabilities of the <u>same</u> outcome, it is held that the subjective probabilities of the given outcome (severe injury to another individual) following aggression, match the objective probabilities of a <u>different</u> outcome (acquiescence by the other individual) following very limited aggression.

In short, this theory holds that the learner makes <u>less direct</u> inferences from his experience, while the other theory holds that the learner makes only the most direct inferences from his experience.

From the formal model of the typical Ojibwa as postulated by the "fear of self" theory, it was deduced

that, if the adults acquiesce in the minor offensive behavior of the child with a relative frequency of .75, this would be sufficient for the child to infer that the probability of serious injury to another following less minor aggression is equal to .75.

An adult was considered to acquiesce in the offensive behavior of a child whenever the adult chose a course of action which was not adequate to produce a change to acceptable behavior on the part of the child. Thus all of the instances listed in the right-hand half of table 5.13 are instances of adult acquiescence in the offensive behavior of the child since these are the instances in which the "child's behavior does not become acceptable following the adult's response".

TABLE 5.13*

OUTCOMES OF SITUATIONS IN WHICH A CHILD BEHAVES IN A MANNER OFFENSIVE TO ADULTS. ALL OBSERVATIONS AT LAC DU FLAMBEAU AND BERENS RIVER

	Child's behavior becomes acceptable following adult response			Child's behavior does <u>not</u> become acceptable fol- lowing adult response					
		Adult	respon	ıse		Adult	res	p ons e	
	C1	C2	С3	Cl	C1	C2	С3	Cl_{+}	Totals
No.	.65	135 1 7. 6	9 1.2	10 1.3	380 49.5	223 29•2	.65	ი ე	767 100.1

^{*}This table duplicates table 5.9 abovc.

Composite data and the Group II theory

As can be seen from Table 5.13, 608 of the total of 767 situations had outcomes involving adult acquiescence. The overall relative frequency of adult acquiescence is thus .793, which is greater than the minimum relative frequency (.75) required by the Group II theory. The composite data are therefore consistent with the Group II theory.

Because of the tendency of Ojibwa adults to adjust to the demands of children less than two years of age, table 5.11 presents the data for all the children two years old or older.

TABLE 5.11/3

OUTCOMES OF SITUATIONS IN WHICH A CHILD BEHAVES IN A LAMMER OFFENSIVE TO ADULTS. CHILDREN UNDER TWO YEARS OF AGE OLIMITED

	Child's behavior becomes acceptable following adult response				Child's behavior does <u>not</u> become acceptable fol- lowing adult response				
		Adult	respons	e		Adul t	res	oonse	
	C1	C2	C3	Cl_{+}	C1	C2	C3	Cl ₊ Total	
No.	3 •5	133 20•7	8 1.2	10 1.6	270 l _! 2.1	216 33•7	1 •2	0 641 0 100.0	

There are 487 outcomes in which the adult ac-

^{*}This table duplicates table 5.10 above

quiesced in the child's offensive behavior in the total of 641 incidents. This gives a relative frequency of acquiescence of .760 which is still above the theoretical minimum relative frequency (.75).

Perhaps a description of some incidents involving acquiescence on the part of adults will clarify the meaning of acquiescence. The following incident occurred in the Robinson household in the summer of 1966.

Old Robinson is sitting in the yard whittling. Three of his grand-daughters, aged six to eight, and some other girls are playing nearby with a blanket. A couple of them are under the blanket staggering and crawling around while the others are pulling and pushing the ones underneath. Old Robinson says, somewhat crossly, "You'll tear that blanket." The six-year-old answers flatly, "No," and the game continues uproariously. No further reaction from Old Robinson.

The following incident is from my notes on the household of Wasse, the medicine man from Little Grand Rapids, the most culturally conservative household in the sample. Alo is Wasse's youngest child, a boy of four. Alo's mother is sitting on the ground inside the tent, but near the door. In the back part of the tent, a group of girls is playing with the infant son of Alo's eighteen-year-old sister.

^{&#}x27;Alo showed considerable interest in the baby, too, but after a few minutes, he climbed into his

mother's lap and reached inside her dress. In a few moments he was "nursing" his mother's undoubtedly dry breast. The baby's mother came in and began nursing the baby. Alo continued to "nurse" as long as the baby did. Alo's mother made no attempt to prevent his "nursing", nor did she encourage him.

Comparison of Berens River and Lac du Flambeau

Because of the interesting differences in "directiveness," between Flambeau and Berens River adults revealed by the examination of adult behavior it may be significant to contrast childhood experiences at the two locations. Table 5.15 presents the data for all observations at the two locations separately.

TABLE 5.15

OUTCOLES OF SITUATIONS IN WHICH A CHILD BEHAVES IN A LIANNER OFFENSIVE TO ADULTS. COMPARISON OF ALL OBSERVATIONS AT BERENS RIVER WITH ALL OBSERVATIONS AT LAC DU FLALBEAU

	Child's behavior becomes acceptable following adult response					Child's behavior does <u>not</u> become acceptable fol- lowing adult response					
			Adult	respons	e	Α	dult	resp	ons e		
		C1	C2	C3	C4	C1	C2	С3	ClĻ	Total	
BR	No.	0	127	1 .0	2 2.0	75 74•3	11 10.9	0	0	101 100.1	
LF	No.	58	123 18.6	8	8 1.2	305 1:5•8	212 31.8	5 8	0	666 100•2	

There were 666 observations at Lac du Flambeau. In 522 of these, the child received acquiescent responses from the adult. Children at Lac du Flambeau thus experience adult acquiescence with a relative frequency of .785. At Berens River, the adults acquiesced 86 times in the 101 cases observed. Berens River children experience adult acquiescence with a relative frequency of .851, which is slightly higher than the relative frequency at Lac du Flambeau. Both relative frequencies are clearly above the minimum required by the Group II theory.

In the case of the children who were two or more years of age, the basic data are given in table 5.16

TABLE 5.16

OUTCOMES OF SITUATIONS IN WICH A CHILD BEHAVES IN A MANNER OFFENSIVE TO ADULTS. COMPARISON OF CHILDREN TWO YEARS OLD AND OLDER AT LAC DU FLAMBEAU WITH SIMILAR CHILDREN AT BERENS RIVER

	acc	eptabl	havior e follo respons			s þeha e acce g adul	ptab	le f	01-
		Adult	respons	e	Ĥ	Adult	resp	onse	
	C1	C2	С3	Cli	C1	C2	С3	Clf	Total
BR No.	• 0	12 16.2	1 1 • !!	2.7	51 68•9	8 10.8	0	0	7!: 100.0
LF No	3 •5	121 21.3	7 1.2	8 1 • <i>l</i> !	±19 38.6	208 36.7	1 • 2	0	56 7

For the Lac du Flambeau children, there were 428 instances of adult acquiescence in 567 observations -- a relative frequency of .755. This relative frequency is still above the theoretical minimum, but just barely. For the Berens River children, there were 59 instances of adult acquiescence in 74 observations -- a relative frequency of .797.

The data for the six children who were less than two years of age are presented in table 5.17.

TABLE 5.17

OUTCOMES OF SITUATIONS IN WHICH A CHILD BEHAVES IN A MANNER OFFENSIVE TO ADULTS. CHILDREN LESS THAN TWO YEARS OLD: BERENS RIVER AND LAC DU FLAMBEAU COMPARED

		Child's behavior becomes acceptable following adult response			bec	ome a	behavior does <u>not</u> acceptable fol- adult response				
		C1	C2	C3	Cl	C1	C2	C3	Cſŕ	Total	
BR	No.	0	0	0	0 0	21 <u>.</u> 88.9	3 11.1	0	0	27 100.0	
LF	No.	2 2.0	2.0	1 1.0	0	86 86•9	4.0	ļ.	0	99 99•9	

All 27 of the indicents involving children less than two observed at Berens River ended with parental acquiescence. Ninety-four of 99 incidents at Lac du

Flambeau ended with adult acquiescence**

Individual Data and Group II theory

More important than the agreement between the composite data and the requirements of the Group II theory is the answer to the question, "For how many children does the relative frequency with which they receive acquiescent responses from adults depart so far from the hypothetical relative frequency that it is reasonable to conclude that the observed frequency is unlikely if the hypothesis were correct?". Table 5.18 gives the basic individual data and statistical tests of the data from which this question can be answered. The table covers all children for whom five or more observations were recorded.

^{**}The difference between the relative frequencies of adult acquiescence to these very young children in the two places may be misleading. All of the cases in which the child conformed to adult demands involved the rejected little girl who also received more than one-fifth of all the punitive adult behavior observed. When the data from this child are omitted, there is no difference in adult acquiescence between the two groups.

• .

157

TABLE 5.18

GROUP II LEARNING THEORY. NUMBER OF OFFENSIVE ACTS, NUMBER OF ACQUIESCENT RESPONSES RECEIVED, RELATIVE FREQUENCY OF ACQUIESCENCE AND BINOMIAL PROBABILITY OF OBSERVED NUMBER OF ACQUIESCENT RESPONSES UNDER THE NULL HYPOTHESIS, FOR EACH OF THIRTY-TWO CHILDREN.

- N = number of offensive acts by child
- x = number of times child received an acquiescent response from adult
- x/N = relative frequency of acquiescent responses from adult
- p(x) = binomial probability of x or fewer acquiescent responses under the null hypothesis $(x/n \ge .75)$

Lac du Flambeau children								
Child	<u> Household</u>	$\overline{\mathbf{N}}$	x	x/N	p(x)			
1	Hunt	11	14	•36l _!	•0077			
2	Hunt	10	7	.700	•4774			
3	Hunt	20	6	•300	•0000			
10	Mandamin	1,1,	35	• 7 95	•8101			
11	Mandámin	29	22	•959	.6179			
12*	Mandamin	5	5	1.000	1.0000			
18	Reed	17	12	• 706	·4299			
19	Reed	22	18	.818	•81 <u>+</u> 02			
20	Clauson	13	9	. 692	·l ₊ 191			
21	Clauson	10	8	.800	.7 582			

22

Clauson

7 6 .857

.0678

[&]quot;Child less than two years of age.

• • ,

158

		TABLE 5.18		continued	
<u>Child</u>	<u>Household</u>	N	x	\overline{x}	<u>p(x)</u>
26	Robinson	66	52	• 788	.8061 ₊
28	Robinson	19	15	. 7 89	• 7 401
29	Robinson	22	17	•733	.680l _j .
30	Robinson	19	13	•681 _L	•3360
31*	Robinson	58	58	1.000	1.0000
36	Waswagen	21,	22	.917	•9912
45	Fitch	22	18	.818	.8402
l <u>:</u> .6	Fitch	51	38	• 71:5	•5279
47*	Fitch	36	31	.861	•9668
55	Marshall	22	18	.818	·81 <u>.</u> 92
56	Marshall	50	3 5	•700	•25 7 3
60	St. Louis	21	16	•762	•6366
61	St. Louis	56	50	.893	•99 7 9
Berens	River chil	dren			
Child	Household	$\overline{\mathbf{N}}$	X	x/N	p(x)
6 5	Multitwa	13	10	•769	•670l <u>i</u>
66	Multikwa	13	12	•923	•9767
67	Mukkwa	13	13	1.000	1.0000
82	Mukoman	6	l ₊	.667	•1 <u>+</u> 681 ₊
81; *	Mukoman	10	10	1.000	1.0000
ි7	Wasse	12	10	•833	·81:35
91F	Sisip	7	6	.85 7	.0670
95	Sisip	9	7	∙77 ି	.7021

^{*}Child less than two years of age.

,

•

.

The table shows that there are just two children for whom it is clearly unlikely that the observed frequency of adult acquiescence is a sample from a population of experiences in which the relative frequency of adult acquiescence is .75 or more. For both of these children, the probability that the sample of experiences came from the hypothetical population of experiences is less than .01. For the other thirty children, the probability that the sample came from the hypothetical population is greater than .25. For twenty-three of the children, this probability is greater than .50.

The two children for whom this hypothesis can be rejected are both members of the Hunt family -- the family which has accepted most of the values of the white middle-class. The fact that this hypothesis can not be rejected for the middle child of this family provides a problem. There is a possible explanation in a statement by his mother. She volunteered the information that this child had been so sickly when younger that they had "spoiled" him. If this is so, they have not altered their behavior toward him to match their behavior toward the others.

Summary for Group II learning theory

It seems clear that there is no basis in the data

for rejecting the Group II learning theory. As presently formulated, its predictions are not precise enough in the individual case to be entirely convincing as to its correctness, but it is clearly a better guide than is the Group I theory.

CHAPTER VI

THE WINDIGO BELIEF AND THE "FEAR OF SELF" THEORY

Introduction

Some slight additional support for the "fear of self" theory may be secured from an examination and interpretation of the windigo belief common to all the Northern Algonkian tribes.

A number of studies of the "windigo psychosis" have been published (Folelson 1965; Hallowell 1931; Landes 1938; Parker 1960; Teicher 1960). Some of these have concentrated on the conclusions which may be drawn from study of this pathological adjustment. I shall not follow this practice, but I shall attempt to draw some conclusions about the typical personality of the Ojibwa from the widely shared <u>beliefs</u> about the "windigo sickness" rather than concentrating on the pathology of sick people involved.

I have drawn heavily on Teicher's monograph (1960) in which he had emphasized the importance of the beliefs about windigoes and windigo sickness.

Although my conclusions are somewhat different from his, his compilation of cases of "windigo psychosis" has been fundamental to my efforts.

The Windigo Belief

The nature of the windigo belief has been well presented by Teicher. A few quotations from his monograph will serve to elucidate the belief here.

Throughout the harge area inhabited by the Algonkian-speaking Indians of Northeastern Canada, the belief in a superhuman, man-eating giant is tenaciously held. This being is given a variety of names, all referring to the same fabulous monster who lives in the dark forest, preying on the Indians to gratify his insatiable lust for human flesh. An awesome and grotesque creature, some twenty to thirty feet tall, windigo is fearsome and blood curdling (1960:2).

There are a variety of explanations as to how the windigo came into being. Of these, the one held most frequently is that the windigo was formerly a human being who was transformed into his super-human state of [by?] sorcery. In this transformation process, the individual developed a heart of ice. His body swelled to the size of a pine tree and became as hard as stone, impenetrable by a bullet or arrow and insensitive to cold. (1960:3 citing Cooper 1933).

For present purposes the essential element of this belief is the idea that any Indian can be transformed into a supernatural giant with an insatiable hunger for human flesh. In terms of this belief, "one who develops this craving for human flesh or is considered to be in process of doing so is called a windigo" (Teicher 1960:5).

..

Generality and Intensity of Belief

It seems clear that there were few Northern Algonkians who did not share the windigo belief in the past. Three paragraphs from Teicher's monograph (1960:4) will indicate that many Indians still accepted the windigo belief as recently as 1950.

In 1950, 1,300 Saulteaux [Ojibwa] living at Island Lake, 326 miles northeast of Winnipeg, were completely disrupted and thrown into a state of total panic and trepidation for an entire summer by the rumor that a windigo was on the prowl. (Teicher cites B. Paterson in The Winnipeg Free Press, August 2, 1952 for this statement.)

Writing just a few years earlier about the Montagnais-Naskapi, a geographer reported that numerous terrifying spirits still range the forests ...Windigo, the giant cannibal...who lives on human flesh...no one among them would dare to doubt the existence of the cannibal giant Windigo..." (Teicher cites V.A. Tanner, Outlines of the Geography, Life and Customs of Newfoundland - Labrador, Cambridge, Mass.: University Press, 1947 for this quotation.)

About 100 miles northwest of Sioux Lockout in Northwestern Ontario is a small lake called Packwash Lake. The contemporary Ojibwa believe that a windigo resides there and claims at least one life each year. Their fear is so intense that the area is studiously avoided. (Teicher cites R. Morenus, Crazy-White-Man, New York; Rand-McNally, 1952.)

Internalization of the Belief

The quotations above suggest that the windigo belief receives more than merely verbal assent. The case reports quoted by Teicher emphasize how thoroughly

this belief was incorporated into the emotional reactions of the Indians.

In fifteen cases, a person considered to be in process of becoming a windigo was killed before attacking anyone. The intensity with which the windigo belief was held is indicated by the relationships to the victim of those involved in these preventive executions. seven cases, the executions were carried out by band members of unspecified relationship to the deceased. In two cases, your men were executed by their own fathers. A woman was executed by her two sons and a man by his wife, later approved by his "closest relatives." One of the people, a Mrs. Cochran was executed, at her own request, by her brother-in-law, in the presence of her assenting husband and children. Another, David Meekis, was executed by two of his brothers and two other men. A young woman was killed by her father-in-law and three other men with the consent of her husband. Yet another, Me-new-as-cum, was killed by some apparently unrelated men at the urging of his wife.

The windigo belief was also shared by at least some of the victims of the "windigo sickness". An old woman who was believed to be becoming a windigo told Hallowell's informant "...that if she became a wihtigo she would be as tall as the trees and nothing

could stop her..." (Teicher 1960:61,-65, from unpublished field notes of A.I. Hallowell). This woman was cured through the efforts of a missionary.

In another case, "...a helpless, aged and ailing ..." old woman was reported to have said that "...if she isn't dead before the sun goes out tonight she cannot be killed and will then begin to eat the children" (Teicher 1960:88). This old woman was one of those executed by her band before she could become invulnerable and begin to eat the children.

Clearly, the windigo belief had been thoroughly internalized by these old women, by the Island Lake people who spent a summer in a "state of trepidation and panic", by those who avoided Packwash Lake, and by all those who executed their relatives or friends before the windigo transformation could become complete.

If it is assumed that such thoroughly internalized beliefs must be consistent with the personal experiences of the individuals who held the beliefs, on what experiences does the windigo belief rest?

Possible bases of the windigo belief in individual experience

Teicher suggests that the belief has been "...built up by inductions from actual experiences of starvation and cannibalism" (1960:110). But, given

 ϵ is the second constant ϵ . The second constant ϵ is the second constant ϵ

Land to the second of the second

the rarity of cases of actual cannibalism -- Teicher found forty-four cases for the entire area for a period of 300 years -- it seems very unlikely that very many, if any, of the total of seventy windigoes had had any direct personal experience with cannibals prior to their own illnesses. (Fogelson 1965:88 accepts Teicher's conclusion of rarity.) Even if they had had such experiences, such experiences would not account for belief in an invulnerable giant -- particularly since most of the cannibals were clearly vulnerable when they were killed to prevent their continuance of cannibalism.

Teicher, himself, notes this discrepancy.

Nevertheless, the unavoidable conclusion is that windigo psychosis is a relatively rare phenomenon. This is particularly striking in the face of the wideshread nature of the windigo belief and its great importance in the lives of the people. It clearly illustrates the way in which a belief may be more important than the facts on which it depends (1960:107).

It may well be the case, however, that actual instances of cannibalism are <u>not</u> "...the facts on which it [the belief] depends." It seems to be the case that such thoroughly internalized beliefs can <u>not</u>, for most of the believers, depend on having witnessed actual cannibalism. It is certainly the case that belief in a supernatural, cannibal giant does not depend on

having witnessed a real supernatural giant. There is, however, an alternative experiential base for accepting a belief in a cannibal giant.

There is a psychodynamic basis for the internalization of the windigo belief. The basis for internalization of the windigo belief which I shall propose here is derived from Spiro's proposal of a basis for acceptance by the Ifaluk of a belief in malevolent ghosts. Since my proposal parallels Spiro's proposal rather closely, I shall summarize Spiro's proposal, quoting relevant passages from his article.

The beliefs of the Ifaluk concerning malovolent ghosts called alus are paradoxical since:

...the alustare conceived of as the ghosts of evil people, but according to both the Ifaluk and ethnographic observation there are no evil people in Ifaluk. If so, how can there be alus? Our analysis, however, has revealed (by implication) that there are evil people in Ifaluk. (1953:381).

Every Ifaluk has reneatedly experienced an evil person:

The evil person that the adult experiences is himself, for everyone who experiences hostile drives within himself is evil. Thus, psychologically viewed, the tradition is true (1953:381 emphasis in original).

This could also be interpreted to say that the IPaluk

believe that anyone can be come a malevolent ghost because at some level of consciousness, each of them "knows" that it is possible for himself.

Similarly, the northern Algonkians never actually see any cannibal giants, but they have internalized the belief that any one of their own number can become a cannibal giant. If the parallel with Spiro's argument is valid, it must be maintained that those northern Algonkians who internalize the windigo belief must "know", at some level of consciousness that they could become windigoes; that is, they must be, in some sense, aware of a feeling of rage and of an "unconscious" (and grossly exaggerated) sense of great destructive power.

This awareness of destructive power and hostility is also a basic assumption of the "fear of self" theory which received support from the observations of adult-child interaction.

The translation of "destructive power and hostility" into a symbolic cannibal giant seems to be quite consistent with what we know of unconscious symbolism. It seems legitimate to apply to this case Freud's assertion that "...a colourless and abstract expression of the dream-thought is exchanged for one that is pictorial and concrete", (1938:361) since Freud also assures us "...that symbolism does not appertain especially to dreams, but rather to the unconscious

imagination..." (1930:369).

Following a somewhat different route, Wallace arrives at a conclusion consistent with the above:

Oral-aggressive impulses are projected in the dread of cannibalistic monsters, the windigos; that the windigo is really a projection of the Ojibwa personality under stress, is evident in the fact that the Ojibwa are known to have a form of neurosis or psychosis characteristically their own, in which the victim imagines himself to be transformed into a cannibalistic monster. (1952:103 emphasis suplied).

The problem of the apparent inconsistency between the self-image as powerful and Ojibwa dependence

Psychological dependency is a generally recognized characteristic of the Ojibwa (Parker 1960: 606-7; Wallace 1952:104; Barnouw 1963:151). How can this dependency with a self-image of "helplessness" be consistent with a self-image of power and hostility?

There are (at least) two approaches to the origins of dependency in the literature. Horney (1937) can be taken to represent one of these approaches and Kordiner (1939) the other. Both writers emphasize the objective, or factual, dependence of the child on its parents (Horney 1937:85; Kardiner 1939:31-34). From this point they diverge markedly.

Horney tacitly assumes that the infant not only is dependent, but <u>feels</u> dependent. She then builds her theory of neurosis on the perpetuation of this dependency. She takes this psychological dependency to be the ultimate motivation for the repression of hostility which she regards as the most frequent basis for neurosis (1937:63).

Kardiner, on the other hand, carefully distinguishes between the infant's factual dependence and the infant's feelings:

...infants do not perceive their helplessness, but on the contrary feel as if they control the world (1939:34-35).

He goes on to explain how this occurs:

The helplessness of the child is conceded by the parent, aid is given unsolicited...the mother can interpret his every discomfort and can do for him what he can not yet do for himself...the control over the environment exerted by the infant through the mother's agency is very like the one we subsequently observe in magic practices...A few vocalizations of the child set in motion a series of complicated changes in the outer world which the child does not understand, but which terminate in easing his tension...During this period of magic control through the mother, we cannot speak of the child's attitude of dependency. For such an attitude to exist, it is necessary to have a wish tension, a knowledge of the inadequacy of resources to satisfy it by oneself, and an attitude of demanding this satisfaction from someone else (1939: 35-36).

My observations of the relations of Ojibwa mothers and their infants are, with one exception, examples of Kardiner's description. (The one exception was the little girl of eighteen months at Flambeau who received five of the total of twenty-four punitive responses received by all observed children). For all of the others, a cry was followed by nearly instant attention and satisfaction of the infant's needs. If Kardiner's theorizing is correct, this infantile experience should lay the foundations for a feeling of power. The assumption that Ojibwa have this feeling of power (at least where their aggressive impulses are concerned) is a fundamental element of the "fear of self" theory. The same assumption is also basic to the explanation presented above of the windigo belief.

Kardiner continues:

The period of magic omnipotence in the infant does not go on very long: for the child is propelled by the process of growth, which simultaneously changes both the needs and the resources of the child. However, the resources never catch up with the needs...Whenever a situation develops which the child cannot meet, and which is accompanied by a recognition of the limitation of his resources and an expectation of outside help, we have an attitude of dependency...The attitude of dependency can be said in every case to be due to a failure of resources; but this failure may be due to the social prohibition of the exercise of certain impulses, to constitutionally determined inadequacies or to accidental interferences (1939:37).

The Ojibwa child manages to retain his belief in his own omnipotence in at least one area — the area of his power to injure others. When he annoys an adult, the adult acquiesces in the annoyance three-fourths of the time. According to the cognitive learning theory employed here, this should result in the child's coming to believe that he is too powerful for the adult to control. This belief then leads him to inhibit his aggressive impulses for fear of injuring those whom he also loves. This then has the consequence that, when someone makes him angry, he cannot take action to end the other's annoying behavior. In short, his resources fail every time somebody angers him. If this interpretation is correct, his belief in his own power results in his helplessness before the aggression of others.

Horney, I find, has long ago enunciated this idea; although she does not trace it to feelings of power:

Repressing a hostility means "pretending" that everything is all right and thus refraining from fighting when we ought to fight, or at least when we wish to fight. Hence the first unavoidable consequence of such a repression is that it generates a feeling of defenselessness, or to be more exact, it reinforces an already given feeling of defenselessness. If hostility is repressed when a person's interests are factually attacked it becomes possible for others to take advantage of him (1939:64).

The main reasons why awareness of hostility may be unbearable are that one may love or need a person at the same time one is hostile toward him ... (1939:66).

This inability to cope with the annoying behavior of others is a large and important aspect of interpersonal relations and it seems unlikely that very many people could maintain a genuine indifference to their inability to deal effectively with such situations. Horney, seems to hold that inhibition of aggressive impulses may be sufficient to account for general dependency. Writing of sources of "a weak and helpless attitude toward life" she asserts:

Or, most frequently, he may have a general notion of having inferiority feelings. These feelings are the result rather than the cause of his tendency to recoil from self-assertion (1939:256).

Since the feelings of dependency are relatively conscious while the earlier self-image as powerful and destructive is closer to completely unconscious, the inconsistency of the two beliefs need not become evident to the individual who simultaneously accepts both of them. It is possible that the belief in their own helplessness helps them to control their aggressive impulses.

CHAPTER VII

CONCLUSIONS AND IMPLICATIONS

The Theories of Motivation

General

Two hypotheses, one from each of two theories of the motivation of Ojibwa restraint, have been tested with data derived from observation of 767 incidents of adult-child interaction.* These incidents involved twenty-two adults and twenty-four children from Lac du Flambeau, Wisconsin and seven adults and eight children from Berens River, Manitoba.

The tests of these hypotheses, and therefore of the theories from which the hypotheses were derived, were independent of each other. That is, the rejection of one hypothesis did not entail the acceptance of the other hypothesis and the theory from which it was deduced. The statistical tests could have resulted in the rejection of both hypotheses and both theories.

These two theories of the motivation of Ojibwa restraint (one from Hallowell and one from Froud,

^{*}For the test of the "fear of self" theory, two adults and ten incidents in which they Sigured are omitted from the statistical analysis.

Bettelheim, and Erikson) were partially formalized (see appendix) in the framework employed by some decision theorists (Ackoff 1953, 1962; Churchman 1961: Churchman and Ackoff 1947a, 1947b; Churchman, Ackoff, and Arnoff 1957). This formalization has two related purposes. First, to make the relationship of the hypotheses to the theories so rigorously deductive that tests of the hypotheses are clearly tests of the theories from which the hypotheses were deduced. Second, to provide quantitative estimates of the subjective probabilities of certain outcomes which would be necessary to explain (within each of the theories) the behavior of the typical Ojibwa. These estimates of the subjective probabilities are also used in testing the theories of the manner in which Ojibwa restraint is learned.

The "fear of others" theory

Statement of theory and hypothesis

I have called the theory taken from Hallowell the "fear of others" theory. The basic notion of this theory is that the restraint characteristic of the typical Ojibwa depends on the value he attaches to avoiding serious injury to himself and on his belief that, if he offends another Ojibwa, there is a significant probability that the other will injure him through sorcery.

The test of this theory rests on the assumption that the Ojibwa do not believe that children are capable of sorcery (Landes 1937:117), from which (in combination with the rest of the theory) the hypothesis is deduced that they should be much less restrained in dealing with an offending child than they are with adults.

Conclusions

The data are not consistent with this hypothesis. It can be rejected at the .01 level for 27 out of 29 adults. The data for the other two adults, although not statistically significant, is inconcsistent with the null hypothesis also. Of course, if the assumption that children are believed to be incapable of sorcery is false, then the hypothesis which was tested can not be deduced from the theory. The data presented could then be used to argue that the Ojibwa "really" believe that children have supernatural powers. The assumption that children are believed to have magical powers, however, seems inconsistent with the readiness of the Ojibwa to attribute such powers to adults and their insistence that the child "...fast for knowledge and abilities or he will be helpless in the struggle for life" (Landes 1937:117). Since the Ojibwa do not attack even the children, who cannot retaliate, I conclude that the restraint characteristic of the typical Ojibwa is

not due to fear of retaliation by others.

Implications

Most generally, and most obviously, this conclusion implies that fear of retaliation is not the only motive people have for not attacking others.

The "fear of self" theory

Statement and Hypothesis

I have called the theory taken from Freud (1963:62-63) and other psychoanalysts (Bettelheim 1950:207-206; Erikson 1963:195-208) the "fear of self" theory. The underlying idea of this theory is that restraint of the degree characteristic of the typical Ojibwa depends on the value he places on not doing serious physical or psychological injury to other people and on his belief that, if he directs or attacks another Ojibwa, there is a high probability that such injury to the other will occur. The original hypothesis tested for this theory asserted that, when offended by a child, adults would choose neither to direct nor attack with the same very high frequency with which they choose that course of action when offended by another adult.

This hypothesis was accepted for fifteen of the twenty-seven adults. Under this hypothesis, the observed frequencies of choice of the punitive courses of action are very close to the predicted frequencies. The observed frequencies of choosing to direct and not to attack are higher than predicted and the observed frequencies of choosing neither to direct nor attack are lower than predicted. When it was also noted that the frequency of choice of directing was higher at Lac du Flambeau than Berens River, it was hypothesized that the higher frequency of this choice was a function of level of acculturation. Following this acculturational hypothesis, the assumed subjective probabilities of moderately or seriously injuring a child through directing him were reduced -- slightly for the Berens River group and somewhat more for the Flambeau people.

Ideally, these new hypotheses should have been tested with new data. Since this was out of the question with the available resources, they were tested against the previously used data. Following these modifications, there were no rejections for the seven Berens River cases and only five rejections (all at .01) for the twenty Lac du Flambeau cases. Six of the seven Berens River cases and thirteen of the twenty Flambeau cases must be accepted even at the .20 level. If the observed average

frequencies of choice for each location are used, the deviations from the predicted frequencies are very slight.

Conclusions

The "fear of self" theory is roughly consistent with the data even under the first hypothesis tried.

Under the hypothesis that adults at higher levels of acculturation regard directing as less dangerous to children, the observed behavior is in surprisingly close accord with the predictions. The supports the theory that Ojibwa restraint is motivated by the desire not to injure others seriously and by the belief that any attack on another will result in serious injury to the other.

In so far as, the "fear of self" theory implies that the Ojibwa conceive of themselves as nowerful and dangerous to others, it is supported by the analysis of their acceptance of the windigs belief.

Implications

If the "fear of self" theory is, indeed, even approximately correct, it implies that positive feelings*

^{*}By "positive feelings" I mean "friendliness" or "liking". I think that such feelings may exist in all people who have had satisfying relationships with others. These feelings may spring from dependency, but it does not seem to be necessary to assume that this is always the case.

toward others play a more important role in human behavior than most of our explicit theories concede. This suggests that predictions of another's behavior on the basis of "a rational assessment of his self-interest" -- as that phrase is usually construed -- are likely to be in error. This should not be taken to imply that there are no people who do not act exclusively on the basis of narrow self-interest as least some of the time. I do mean to imply that altruism should not be excluded a priori.

It seems likely that a theory which took into account both the fear of retaliation and the fear of one's own anger in differing proportions would give better predictions for people who are less rigidly restrained than the Ojibwa. There is no reason why such a theory can not be formulated.

Theories of the Development of Restraint

General

Two hypotheses, one from a stimulus-response type of theory and one from a more cognitive type of theory have been tested. The same data used in testing the theories of motivation are used in testing these learning hypotheses, but these data are now analyzed

in terms of the learning experiences of each child.

As in the case of the motivational theories, the tests of these hypotheses are independent of each other. Rejection of one hypothesis does not imply acceptance of the other.

Group I, or S-R, theory

Statement of theory and hypothesis

This theory asserts that an individual will expect any given outcome to follow a particular kind of act and the given outcome has followed it. Mowrer (1960b: 31/7) states that the subjective probability of a given outcome for an individual tends to equal the objective probability of its occurrence in his previous experience. From the formal "fear of others" theory, it was deduced that the minimum subjective probability of retaliation necessary to account for the restraint of the Ojibwa is .1/5 (see appendix). Hence, the hypothesis tested is: Ojibwa parents punish offending children with a relative frequency of at least .1/5.

Conclusions

The average observed relative frequency of punishment of offending children is .031. When tested

individually for each child, this hypothesis was rejected at the .05 level for thirty of the thirty-two children. It seems clear that these Ojibwa do not learn restraint as a consequence of punishment for offensive behavior in childhood.

Implications

Many students of child development have concluded that a simple stimulus-response theory is inadequate to account for all of human learning (of Mowrer 1960b; Bandura and Walters 1963; Sears, Rau, and Alpert 1965). The conclusion of this part of this study supports that view.

Group II, or cognitive, theory

Stated in terms of subjective probabilities, this theory holds that the child infers that the probability that another would be injured if he were to attack the other is equal to the probability that adults respond acquiescently to his offensive behavior. From the formalization of the "fear of self" theory it was deduced that the minimum subjective probability of injuring another by an attack must be .75 to account for the high degree of restraint of the typical Ojibwa.

Less precisely, but perhaps more clearly stated,

the high frequency of adult acquiescence leads the child to believe that there is a high probability that, if he were to attack an adult, the probability that the adult would be seriously injured would be high. That is, the high frequency of acquiescence leads the child to believe that he is powerful and dangerous. Therefore, the hypothesis tested is: Ojibwa adults respond acquiescently to the offensive behavior of children with a relative frequency of at least .75.

Conclusions

The average observed frequency of adult acquiescent responses to the offensive behavior of children is
.76. When tested for each child individually, this
hypothesis must be accepted for thirty of the thirty-two
children. For all thirty of these children the probability that the observed sample of their behavior came
from a distribution in which the relative frequency of
acquiescent responses by adults is greater than one in
four. For twenty-three of the children, this probability
is greater than one in two.

I therefore conclude that the restraint characteristic of the typical Ojibwa is a consequence of adult acquiescence in the offensive behavior of children.

Implications

This conclusion suggests that at least some of the people in other societies who are emotionally restrained reached that state by the same route as the Ojibwa. These findings support the psychoanalytic hypothesis that adult failure to control the child may lead him to overcontrol himself.

When an adult is observed to be anxious or inhibited about certain kinds of activities, there is a tendency to attribute this anxiety or inhibition to "severe" socialization concerning the activities about which he is anxious or inhibited. If my conclusions about the development of restraint by the Ojibwa are correct, then the attribution of anxiety or inhibition to severity of socialization is not always correct. At least in some cases, the anxiety or inhibition may be due to socialization practices that would not ordinarily be described as "severe."

Implications for the future of the Ojibwa

It seems clear that the Ojibwa (in the U.S. at least) have no real choice but to become full participants in the dominant society. They apparently can not maintain a really separate existence, and they can not continue as dependent and second-class citizens without

complete loss of self-respect. But, their typical personality creates a serious barrier to their becoming full participants in our society.

For the Ojibwa (or other northern Algonkians) to become full participants in our society, they will have to become able to compete openly. If I am correct that this inability to compete is a consequence of an unconscious conviction that to compete with another is to threaten serious harm to him, then this change can not be brought about by merely reducing the external barriers (such as racial discrimination) to their competing in our economic and social systems. Since the greatest barrier to their fuller participation in our system is internal, some way of changing their belief in their own destructive powers must be found.

Dowers is a consequence of the extreme acquiescence of Ojibwa parents to the offensive behavior of children, then the development of this belief could be limited by giving them more experience with adults who find it easy to central children.

At present, nearly all of these Indians are acquiring some experience in childhood with people who do not hesitate to control them. These controllers are their teachers. Since they do not go to school until they are

six or seven, this experience of people who are capable of withstanding the "powers" of the Indian child probably comes too late to change the underlying self-image. The Indian children are already quite restrained before the age of six. At Lac du Flambeau there has been a "headstart" program which has been very popular with the Indian children. This early experience with people who are not so acquiescent as Indian adults, may do something to counteract the belief of the children that they are too powerful for others to withstand. The children might, of course, come to conclude that, although whites are strong enough to control them, Indians are not. This would, however, still facilitate their assimilation into the social system of the dominant group. It might be interesting to investigate the behavior of those children who participated in "Headstart" for varying lengths of time.

Limitations of the Study and Suggestions for Future Research

Theoretical limitations

One merit of attempting to develop a partially formalized theory is that it forces the scientist to make many of his assumptions explicit. This may be hard on the scientist, since explicit assumptions are ready

targets for criticism and investigation, but, by the same token, scientific progress is accelerated.

Naturally, all of the assumptions, explicit and implicit, of this study are potential targets for further examination. I wish to call attention to just two of them.

The first of these is my translation of Hallowell's statements about restraint into the assumption that the typical Ojibwa chooses to neither direct nor attack with a relative frequency of at least .90. This quantitative assumption conditioned all of the other quantitative assumptions, especially those of the subjective probabilities and of the decision rule. In the absence of quantitative data about interpersonal relations, this seemed a reasonable assumption. If this assumption is erroneous it has had numerous effects on my conclusions.

To illustrate, let us suppose that .90 is too low for this probability. If that is the case, then, according to my data, Ojibwa adults treat children very differently from adults in directing the children as often as they do. On the other hand, if .90 is too high, then the difference in treatment of children and adults is smaller than I have concluded. Only a quantitative study of the reactions of adults to other adults who have offended them can answer this question. If

such a quantitative study of adult interaction should become available, it would permit adjustment of my present data and the drawing of more accurate conclusions from them.

Another of my assumptions which seems reasonable but which may prove erroneous is the assumption that the learner equates the probability of adult acquiescence following offensive behavior with the probability of serious injury to the other following an attack on the other. The whole area of indirect learning is in need of a great deal of investigation. The fact that these assumptions did not result in unreasonable conclusions suggests that these assumptions may be approximately correct.

Statistical limitations

Since these conclusions are not based on a random sample of the Ojibwa mopulation they can be generalized only to the extent that the sample used in this study is representative. The sample was not designed to represent the whole population, even of the two groups studied, but only those which were taken to approximate the typical personality and even here, no claims to genuine randomness can be supported. The most that can be said, is that the Flambeau sample seems to be quite heavily

weighted toward the culturally conservative families.

Observational limitations

The problem of recording the observations is significant. In most cases, notes had to be recorded from memory after leaving the observed people. Sound movies would be ideal from the point of view of recording all the interaction, but would be an even greater handicap to undistorted interaction than a notebook and pencil. Perhaps, a small, finger-operated device which could record general type of offensive behavior and the response of the adult could be developed. This would provide basic data and would facilitate the filling in of details from memory.

Lack of interview data

The "fear of others" theory explains Ojibwa restraint as arising from a distorted perception of the powers of others to injure or kill through magical means. The "fear of self" theory explains restraint as a consequence of the individual's distorted perception of his own powers to injure others. Data gathered from "depth" interviews with a sample of Ojibwa adults and children might have added to the evidence for or against either interpretation. Data from relatively "superficial"

interviews, reaching only the most conscious perceptions of interpersonal relationships would have provided additional material for interpretation. The effort to understand both their actual adult-child behavior and their verbalized views of the adult-child relationship might have resulted in additions to our knowledge of the connections between verbalized conscious perceptions and overt behavior.

Unfortunately, very little interview data was collected so the investigation of these interesting topics must await future field work.

Suggestions for future research

One possibility which grows out of the tests of the "fear of self" theory is the investigation of less acculturated Ojibwa groups to see if the frequency of directing is in fact a function of level of acculturation.

Another investigation of some significance would be a study of the effects on restraint, for the children involved, of the "headstart" program at Lac du Flomboau. Following the Group II learning theory, we should except that Ojibwa children who have the experience of being in charge of people who are not hesitant to control children should show some lessening of the characteristic restraint.

Finally, theories of interpersonal behavior more general than the two presented above can be developed and tested by somewhat similar techniques of observation. Such theories could combine the values and subjective probabilities of the two theories presented here and they could contain additional values and beliefs. Such theories could also be applied to the study of intergroup behavior, with reference to competing or conflicting groups within a society or to intersocietal conflict or competition.

APPEND IX

FORMALIZATION OF THE TWO THEORIES OF MOTIVATION

Introduction

The purpose of this appendix is rigorously to derive some consequences of theories of Ojibwa personality and its development to permit better tests of these theories. Since the candidate explanatory theories of Ojibwa typical personality are stated informally and imprecisely, the first step is to put them into a more rigorous form from which the reported bheavior of the typical Ojibwa can be deduced. This will permit tests of some additional consequences of these theories and also provide better estimates of the values of certain variables needed in testing the theories of development of Ojibwa typical personality. These theories are very simple, perhaps overly simple, but the formalization of these simple versions should facilitate testing and enrichment of these simple theories.

This presentation can be greatly facilitated (though at the cost of learning some new symbolism) by the introduction of the conceptual system employed in contemporary decision theory. The presentation of decision theory which follows is based principally:

on the works of C.W. Churchman and R.L. Ackoff (Churchman and Ackoff 1917a, 1917b; Ackoff 1953, 1962; Churchman 1961; Churchman, Ackoff, and Arnoff 1957).

This system will be introduced by presenting its elementary, or "primitive" concepts and then using these, first, to restate Hallowell's description of typical Ojibwa behavior, and, second, to explicate Hallowell's "common-sense" theoretical explanation of this behavior.

Elementary concents

The elementary concepts of the system are:

- (1) an <u>individual</u>, Ik, whose behavior is to be predicted or explained.
- (2) a set of <u>courses of action</u>, Ci, which the individual can choose.
- (3) a set of possible <u>outcomes</u> or consequences, Oj, of the courses of action.
- (b) the probability, Pi, that the individual will select Ci in a specified environment.
- (5) the probability, <u>Eij</u>, that Oj will occur if Ci is selected by Ik in a specified environment.
- (6) the value, Vj, of Oj to Ik.
- (7) the <u>environment</u>, N, which consists of all the conditions which determine Eij. The conditions

logic and mathematics are also presupposed in the construction of the system.

Ojibwa behavior

Using these concerts we can begin to explicate the Ojibwa typical personality as described by Hallowell. We begin with some of the behavior which Hallowell seems to regard as central to the Ojibwa typical personality. He refers to "...suppression of any impulse to tell someone clae what to do..." (1955:135) and to "...absence of overt aggression in face-to-face situations..." (1955:278). "Telling someone else what to do" apparently describes a "course of action." We will abbreviate this description to "directing" and denote it be "cl." Similarly, "overt aggression" describes a different course of action which will be shortened to "attacking" and will be denoted by "c2."

For the present, we will restrict attention to the compound courses of action, Ci, which can be foremed from these two "primitive" courses of action.* These compound courses of action are:

C1 = c1 c2 -- neither direct mag attack

^{*&}quot;Direct" and "attack" can be defined within the system of Churchman and Ackoff, but for now they will be treated as "primitives" of the "fear of others" theory.

C2 = c1 c2' -- direct and not attack
C3 = c1'c2 -- not direct but attack
C1 = c1 c2 -- both direct and attack

"cl'" designates all courses of action which do not involve cl. It is read "not-cl," or "cl-prime," or in any other locution which retains the meaning as in Cl above.

Hallowell's description indicates that for Ia, the typical Ojibwa, Pl (the probability that he will choose Cl) is very high and P2, P3, and Ph are all low. The examples he gives indicate that this is the case even when some other person, Ib, has annoyed him. It is assumed from Hallowell's reports that the frequency of choice of Cl is approximately .90. This assumption conditions all the later assumptions concerning the subjective probabilities of the various outcomes given choice of each course of action. Therefore, to the extent that this figure is in error, the conclusions based on the tests of both the following theories will be in error. Research is particularly needed to correct or validate this assumption.

The "fear of others" theory of Ojibwa personality

The problem is to explain the very high Pl (probability of choice of Cl) by Ia even when Ia is annoyed. "Common sense" suggests that people reliable

from directing or attacking others when they fear that the others may retaliate with superior force. Hallowell appears to adopt this view when he attributes Ojibwa restraint to the fear that the other person will retaliate by means of sorcery (1955:148). It appears that this theory is intended to explain the behavior of adults in interaction with other adults, since the Ojibwa believe that children lack magical powers as well as physical capability to injure adults.

If the assumptions in this account are made somewhat more explicit the theory seems to assert that the typical Ojibwa would "like to" choose a course of action which would make the other person stop annoying him and would also "like to" injure his annoyer, but he refrains from choosing courses of action (directing or attacking) which are likely to have such outcomes because he fears that doing so would lead the other to retaliate, producing an outcome he does not want, severe injury to himself. This will be recognized as the "balance of power" or "mutual deterrence" theory, the assumptions of which are so familiar as to seem almost necessary.

This theory can be cast in the framework of contemporary decision theory where the individual's probability of choice of a course of action (pi) is explained as a function of the "expected value" for the

individual of the course of action.

The "expected value" of a course of action (ci) is calculated by multiplying the <u>value</u> (Vj) of each outcome (Oj) by the probability (Eij) that Oj will occur if Ci is chosen. The theory being explicated employs subjective probabilities, that is, the probabilities which the typical Ojibwa is assumed to believe. This theory assumes that the individual will tend to choose that course of action which has the highest expected value in a given situation.

Requirements of the decision theory framework

To express this theory in the decision theory framework will require that we make explicit not only the courses of action and outcomes with which the theory is concerned, but also the assumed relative values (Vj) to Ia of these outcomes and the subjective probabilities (Eij) that each of the outcomes will occur if each course of action is chosen, which are also assumed in this theory.

The outcomes

The courses of action with which this theory is concerned have already been specified in above. The outcomes which are mentioned in the informal presentation

above are, first, <u>Ib stops annoying Ia</u>, which will be designated "ol;" second, <u>Ib is injured</u>, which will be designated "o2:" and, third, <u>Ia is severely injured</u>, which will be designated "o3."

Compound outcomes

The outcomes are clearly not exclusive; they may occur in any combination. By means of a Boolean expansion, an exclusive and exhaustive classification of these possibilities can be constructed (as was done in the case of the courses of action). Since there are three "primitive" outcomes (oj), there will be eight compound outcomes (OJ) as follows:

```
-- Ib stops annoying Ia, Ib injured,
01 = 01 \ 02 \ 03
                        Ia injured.
                    -- Ib does not stop annoying Ia, Ib
02 = 01 \cdot 02 \cdot 03
                        injured, la injurcd.
                    -- Ib stops annoying Ia, Ib not injured,
03 = 01 \ 02 \ 03
                        Ia injured
                    -- Ib does <u>not</u> stop annoying Ia, Ib <u>not</u> injured, Ia injured
0l_1 = 01 \cdot 02 \cdot 03
05 = 01 \ 02 \ 03
                    -- Ib stops annoying Ia, Ib injured,
                        Ia not injured
06 = 01 \cdot 02 \cdot 03
                    -- Ib does not stop annoying Ia, Ib
                        injured, la not injured
                    -- Ib stops annoying Ia, Ib not injured,
07 = 01 02 03
                        Is not injured
                    -- Ib does not stop annoying Ia, Ib not injured, Ia not injured
08 = 01 \cdot 02 \cdot 03 \cdot
```

The value assumptions of the "fear of others" throw: Deduction of Ia's high probability of charging

C1 in this situation demands quite detailed assumptions about the relative values of the outcomes in this situation and such assumptions do appear to be implicit in Hallowell's statements. I shall try to estimate the relative values of these outcomes to the typical Ojibwa (as described by Hallowell) using a technique suggested by a procedure developed for a somewhat different purnose by Churchman and Ackoff (Ackoff 1953:24-27, 375-376: 1962:87-91). Many researchers attempt to avoid making detailed estimates of the relative value of outcomes by concerning themselves only with the single outcome of greatest value. This does not avoid the problem since it amounts to assigning maximum value to one outcome and zero value to all other outcomes. many cases, this amounts to a greater distortion than any other possible error of estimation. Therefore, assignment of relative values by judgments for which the bases are made explicit is a permissible research procedure (See Ackoff 1962:82; Churchman, et al 1957:115-116).

The first step in the procedure is to rank these eight outcomes in accordance with the assumed preferences of the typical Ojibwa. This theory seems to assert that the typical Ojibwa strongly prefers any compound outcome involving o3: (Ia is not severely injured) to any of the outcomes involving o3. That is, each of 05,06,

O7, or O8 is strongly preferred to O1, or O2, or O3 or O1. It seems clear that Ia is assumed to value both o1 and o2, given o3, hence his first choice is O5. His second choice depends on his preference for o1 o2 or o1o2. The assumption is made here that stopping the annoyance is preferred to injuring the offender, although, since the O3ibwa are "hostile" they might prefer injuring the offender, the assumption is also made that he prefers any of the above to o1 o2. Therefore we arrive at the following ranking of these outcomes on the basis of the assumptions of the "common-sense" theory:

```
(Ib stops annoying Ia, Ib is injured, Ia is not injured)
(Ib stops annoying Ia, Ib is not injured, Ia is not injured)
(Ib does not stop, Ib is injured, Ia is not injured)
(Ib does not stop, Ib is not injured, Ia is not injured)
injured)
```

On the assumption that the ranking within the group of outcomes which include injury to Ia is the same as within the group which does not include injury to Ia, this group ranks as follows:

Ol (Ib stops; Ib is injured, Ia'is injured)
O3 (Ib stops, Ib is <u>not</u> injured, Ia'is injured)
O2 (Ib does <u>not</u> stop; Ib is injured, Ia'is injured)
O4 (Ib does <u>not</u> stop, Ib is <u>not</u> injured, Ic is injured)

This ranking (or relative valuation) of outcomes is a distinguishing feature of the "fear of others" or "balance of power" theory.

The next step in the procedure is the assignment to the outcomes of numbers which represent the relative values to Ia of the outcomes (preserving the ranking of values above, of course). The "fear of others" theory is not so clear regarding the fine adjustments within this ranking. I have therefore assigned these numbers on the basis of two considerations. First, the previously mentioned great preference for any Oj containing o3: to one containing o3. Second, to choose figures which will lead to predictions in accord with Hallowell's reports (a great range of figures which preserve the ranking will meet this consideration). I have therefore assigned the following numbers as value estimates:

Oj	<u>v</u> j	<u>Oj</u>	vj
05 07 08	1 00 90 30 60	01 03 02 01	17 <u>1</u> ;30

It is conventional to standardize these figures by dividing each by the sum of all of them. When this is done, we get:

<u>Cj</u>	vj	<u>Cj</u>	vj
05	•29	01	.015
07	•26	03	.012
06	•23	02	.0089
08	•18	01.	0.0

These figures will be entered in the matrix to be described below.

The subjective probability assumptions of the "fear of others" theory

It is convenient to present the probability figures (Eij) in a matrix in which the outcomes are listed horizontally across the top and the courses of action are listed vertically on the left. The values to Ia of the outcomes are listed below the outcomes. Later, the expected values of the courses of action and the probabilities of choice of the Ci will be listed vertically on the right.

()j							
<u>Ci</u>	01	0.2	03	Olj.	05	06	<u>07</u>	08
VJ	.015	.0089	.012	0	•29	•23	.26	•13
C1	E11	E12						
C2								
С3					E35			
Cli	El _! .1							

In this matrix, Ell represents the subjective probability that Ol will occur if Ia chooses Cl, El2 represents the subjective probability that O2 will occur if Cl is chosen, E35 represents the subjective probability that O5 will occur if C3 is chosen, etc.

These probabilities are determined by the properties of the environment (N), or, rather, since we are dealing with <u>subjective</u> probabilities, by what Ia <u>believes</u> the properties of the environment to be. As this theory has been expounded by Hallowell, these environmental properties are the capabilities and intentions of Ib. Social factors operate <u>indirectly</u> through fostering the belief in sorcery which is regarded as the effective factor in producing restraint. The probabilities which are inserted in the matrix thus represent in numerical form the capabilities and intentions which the typical Ojibwa <u>imputes</u> to other Ojibwa adults, according to this theory.

In general, "common sense" assumes that directing (C2) someone is more effective in producing a desired change in the person's behavior (o1) than not directing him (C1); that attacking him (C3) in some fashion is much more effective than merely telling him, and that a combination of both directing and attacking (Ch) is slightly mor effective than attacking alone.

The Ojibwa seem to believe that C1 is very unlikely to injure the other person (o2), that directing him (C2) has considerable likelihood of injuring his self-esteem, and that attacking him (C3) is very likely to injure him and hence that both directing and attacking him (C4) has slightly greater probability of injuring him than attacking alone. It is significant in determining the subjective probabilities held by the typical Ojibwa that the Ojibwa are psychologically injured by what the average white American would regard as a mild verbal attack. They do not feel that it takes much "to really tell semeone off."

The only course of action (of the set under consideration) which does not have a high probability of producing retaliation causing severe injury (as the Ojibwa are reported to see it) is C1 (neither directing nor attacking). As Hallowell reports the Ojibwas' beliefs, attacking someone is more likely to produce retaliation by sorcery than directing him, but the probability is high in both cases. The probability that the retaliator will be successful in seriously injuring the director or attacker seems also to be very high in the belief of all but a few individuals. As Hallowell pictures it, each person seems to feel that nearly every adult can and will injure him severely by sorcery on (what we re ard

as) provocation totally inadequate to the intended injury (the intended injury is often death).

In calculating the probabilities of the compound outcomes (oj) for each of the compound courses of action (Ci), a numerical probability consistent with the above assumptions will be assigned to each of the primitive outcomes (oj) for each course of action. If the probability of oj is p, then the probability of oj! is 1-p. Each of these primitive outcomes is assumed to be an independent event (each of which is contingent upon choice of some Ci), hence the probability of a compound outcome (Oj) is the product of the probabilities of the three primitive outcomes (or their negations) which compose the compound outcome.

Calculation of the numerical probabilities (Eij)

For the purpose of assigning numerical values to the probabilities of the primitive outcomes, the total range of probabilities will be divided into twelve classes, each of which (except for the two end classes) will be represented by its midpoint. These classes are as follows:

Range of subjective probabilities:	Range represented	by:
virtually zero (<.01) .0110 .1120 .2130 .3140 .1150 .5160 .6170 .7130	0 • 0 • 1 • 2 • 5 • 5 • 6 • 7 • 7 • 7	
.8190 .9199 virtually certain (p>.99	.85 .95) 1.00	

The following table represents the tentative assignments of probabilities to each of the <u>primitive</u> outcomes for each of the courses of action based on the
"fear of others" theory (where both Ia and Ib are adults).

TABLE 8.1

ASSUMED SUBJECTIVE PROBABILITY OF OCCURRENCE OF EACH OF THE PRIMITIVE OUTCOMES GIVEN CHOICE OF EACH COURSE OF ACTION

	01	02	03	1 1c	021	o 3 t
C1 C2 C3 CL	•155 •355 •755	0 7 7 9 9 9 9	0555 • 785 • 8	•65 •25	1.00 .205 .005 .005	•25 •15

Then, since the probability of a compound outcome, given choice of a course of action, is the product of the probabilities of the three primitive outcomes, E21, for onample, is the product of $\gamma(o1)$, p(o2), and $\gamma(o2)$, $\gamma(o2)$, and

.35 x .75 x .75 = .20. The remaining thirty-one Eij were calculated by a similar procedure. When these are entered in the matrix, it looks like this:

compound courses

0

action are presented below:

.18	• 26	•23	.29	• 0	• 012	.0089	•015	
0012	-0065	.022	•12	0065	.036	•12	.63	CI:
.0019	•0056	• 035	.11	•011	•032	.20	.61	G
• 0l <u>.</u> 1	•022	•12	.067	•12	.067	•36	• 20	62
• 85	• 155	0	0	0	0	0	0	C1
								۷.
00	07	06	05	0/1	03	20	01	Ci

For convenient reference, the specifications of the compound outcomes and

11 11 11 direct and not attack not direct but attack neither direct nor attack

00000000000 H H H H H H 11 11 11 11 11 11 11 11 stops annoying Ia, Ib injured, Ia injured does not stop annoying Ia, Ib injured, Ia injured stops annoying Ia, Ib not injured, Ia injured does not stop annoying Ia, Ib not injured, Ia injured stops annoying Ia, Ib injured, Ia not injured does not Stop onnoying la, stops annoying la, ib not docs not stop annoying la, Ib injured, in jur ed, injured, la not injured injured, la injured not injured la not injured

both direct and attack

This matrix presents information to the effect that this theory asserts that Ia believes that, if he chooses C1, the probability of any outcome other than 07 or 08 is virtually zero. It also informs us that Ia is held to believe that C2 has a relatively high probability of producing Oh, but, since Oh does involve severe injury to Ia and does not involve the end of the annoyance nor injury to Ib, he puts no value on this outcome.

Justification of these calculations

It may be asked, "Why make such calculations as these when the theory has been stated so imprecisely?"

The justification for this effort lies in the belief that such an attempt to state this theory precisely may more quickly lead to research specifically designed to test these assumptions and also, as will be shown later, this set of assumptions and calculations (or deductions) does provide something approximating a rigorously deductive explanation of Hallowell's reports of the very low frequency of directing or attacking behavior among the Ojibwa. These figures could be rounded to the nearest tenth or modified in other ways and they would still result in somewhat similar deductions about Ojibwa behavior. These figures, however, seem to make the charge work particularly well.

Expected value of a course of action

The expected value of a given course of action is the sum of the products of the value of each outcome and the probability that the outcome will occur if the given course of action is chosen. In the symbols of the statistician, the expected value of Ci is expressed:

$$EV(Ci) = \sum_{j=1}^{J} EijVj. For EV(C2) in the theory under consideration we write:$$

$$EV(C2) = \sum_{j=1}^{8} E2jVj = .20(.015) + .36(.0089) +$$

EV(C1), EV(C3), and EV(C4) were calculated similarly and their values entered in Matrix A1:

Pi as a Sunction of expected value

If I interpret the "fear of others" theory correctly, it can be construed as asserting that the probability, Pi, that an individual will choose any course of action, Ci, is a function of the expected value (for him) of all the Ci. It is a frequent practice in studies of decision-making to assert that the individual should always choose the course of action which has the highest

MATRIX AI

СŲ	C3	C2	C1	۲.	Ci
.68	. 61	• 20		015	01
.12	· 20	•36	0	•0089	02
.036	.032	.067	0	.012	O.
.0065	.011	.12		•	C.)
.12	. 11	.067	0	-29	05
.022	•035	.12	0	• 23	96
- 0065	.0056	.022	• 15	.26	07
.0012	.0019	• 0½.1	• %	· 1 ©	03
•051;	• 060	.067	.19		EV(Ci)
.00016	•00022	•00030	•0069	.00753	EV3(Ci)
.021	.029	.039	• 91		ָּבָּל.

and compound courses of action are For convenient reference, the presented below: specifications of the compound outcomes

C1 = c1'c2' = neither direct nor attack
C2 = c1 c2' = direct and not attack
C3 = c1'c2 = not direct but attack
C4 = c1 c2 = both direct and attack

11 11 11 11 11 11 11 01 02 01 02 $^{\circ}$ 11 11 11 11 11 11 11 11 stops annoying Ia, Ib not injured, Ia injured does not stop annoying Ia, Ib not injured, Ia docs does not stop annoying Ia, Ib injured, Ia injured stors annoying la, Ib not does not stop annoying Ia, Ib injured, stops annoying la, Ib stops annoying not stop annoying Ia, Ib injured, injured, injured, Is not Ib not injured, not Ia injured injured not injured Ia not injured injured injured

expected value, that is, Pi = 1.0 for the course of action which has the highest expected value for him in the given environment. This is often regarded as the best decision rule for the individual, but it seems unlikely that many individuals will be observed to follow this rule with perfect consistency. It seems, however, that some approximation to this rule is asserted by the theory under consideration.

One way to approximate this decision rule is to express the individual's probability of choosing any course of action as proportional to some power (such as the square or cube) of the expected value of the course of action. As higher powers are used, this rule approximates more and more closely to the "maximization" rule (i.e. Pi approaches 1.0 for the course of action which has the highest EV and approaches 0 for all others).

(See Mowrer 1960b:330-345 for summary of experimental evidence on approximate maximizing.)

A decision rule tentatively to be employed in this theory

In the Ojibwa case with which we are concerned here, we will somewhat arbitrarily adopt the rule that the typical Ojibwa's probability of choosing any course of action is proportional to the cube of its expected value. In mathematical symbols, $Pi = \frac{1}{100} (Ci)$

.

. •

Assuming that the typical Ojibwa does have the values and subjective probabilities attributed to him in Matrix A and follows this decision rule, his probabilities of choosing the four courses of action are as follows:

```
Ia's probability of choice of C1 = P1 = .91 Ia's probability of choice of C2 = P2 = .039 Ia's probability of choice of C3 = P3 = .029 Ia's probability of choice of C\mu = \mu
```

Many questions can be raised about these probabilities of choice and about the value and subjective probability assumptions from which they were derived, but since these figures are quite consistent with Hallowell's description of the typical Ojibwa, these questions will be postponed until later.

<u>Personality</u>

Any such rule, combined with the information about values and subjective probabilities necessary to calculate the expected values of the courses of action, is the personality of an individual. Such information about an individual is his personality since it permits us to predict (probabilistically) his behavior in any situation. This is a nominal definition of personality in the sense in which Spiro uses the term nominal in "Culture and Personality: the Natural History page

False Dichotomy" (1951). The personality of an indivdual is thus the product of the scientist's study of the individual just as the "law of falling bodies," $S = \frac{1}{2} gt^2$, is the product of the scientist's study of falling bodies. Both the personality of an individual and the law of falling bodies serve the same function: each permits the prediction of the behavior under varying (but specified) conditions, of the entities to which they apply.

Use of personality to predict behavior in a different situation

If we assume that our typical Ojibwa places the same relative values on these outcomes in situations which differ only in the subjective probabilities (Eij) of occurrence of these outcomes, and that his choices follow the same decision rule, we will predict different probabilities of choice of the same four courses of action in this new situation. This amounts to saying that his personality remains constant but his behavior changes to meet the (at least subjectively) different situation. Let us examine a somewhat different situation which is central to this study — the situation in which Is is dealing, not with another adult, but with a child.

Specification of the changed situation

For this changed situation, we assume that the relative values attached to the outcomes by the typical Ojibwa adult remain the same. That is that he still wishes to have the annoyance stopped, that he wishes strongly to retaliate and injure the annoyer, and that he most strongly wants to avoid serious injury to himself. It seems unlikely from Hallowell's descriptions that the subjective probabilities of the various outcomes will be changed except for the believed probability that an Ib who is a child can produce serious injury to an adult. The Ojibwa believe that no child has any supernatural powers. They are explicit that children are extremely vulnerable as a result of this lack (Landes 1937:117-118). Hence, for all courses of action, the probability of o3 must be virtually zero and the probability of o3' must be virtually 1.0.

Deductions from this changed situation

Calculating the subjective Eij from this one change in the subjective probability assumptions, and calculating the expected values of the courses of action and the resulting Pi, we get the results displayed in Matrix Bl, (next page) where Ia is an adult and Ib is a child. Thus, this theory from which it is possible

MATRIX BI

,	C):	\mathbb{G}	C2	C1	<u>۷</u> .	Ci
	0	o	0	0	• 05	01
	0	0	0	Ф	.0039	02
	0	0	0	0	012	03
	0	0	0			0):
	• Ω	•71	.26	0	• 29	05
	• 1 1:		1:9		٠ 22 س	06
	•	•	•	•	•	1
	.01;3	033	• 038	•15	.26	07
	043 .0075	033 .013	038 .16	15 .05	26 .18	07 03
		033 .013 .23		• C) Vi		
	.0075	.013 .23	.16	• C5 • 19		03 EV(Ci)
	.0075 .27	.013 .23	.16 .2l ₁	• C5 • 19	• 1 B	

to deduce the reported restraint of Ojibwa adults in interaction with other adults has, as another of its logical consequences, that adults, when annoyed by children, can be expected to choose courses of action involving attack (C3 and C4) with a frequency of .67.

An alternative version of the "Sear of others" theory

Hallowell seems to feel that the Ojibwa are not inclined to take any chances on retaliation even though the subjective probability of such retaliation may not be high. If the subjective probability of o3 is reduced for C2, C3, or Ch, there are two possible ways of retaining high Pi. The value to the individual of o3! might be increased or the individual's tendency to maximize expected value might be increased. Since the value assigned to o3' could be increased only slightly, the alternative of greater tendency to maximize must be adopted. If the individual's probability of choosing a course of action is assumed to be proportional to the tenth power of its expected value (rather than to the third power as in Matrix Al), a Pl of .91 can still be attained if the subjective probabilities displayed below are adopted. The subjective probabilities of all the primitive outcomes except o3 and o3 are retained unchanged as indicated in the following table;

218 TABLE 8.2

SUBJECTIVE PROBABILITIES OF PRIMITIVE OUTCOLDS GIVEN CHOICE OF C1, C2, C3, OR C4. "FEAR OF OTHERS" THEORY, HEAR PERFECT MAXIMIZATION, MINIMUM PROBABILITIES OF 63.

	01	02	03	01	021	o3 t
C1	.15	0	0	.85	1.00	1.00
C2	•35	•75	-45	.65	•25	•55
C3	•75	• 95	•55	•25	.05	•4:5
Cly	. 85	•95	•55	•15	•05	.115

When the subjective probabilities of the compound outcomes are inserted in the matrix, we get: (see Matrix A2)

These probabilities of choice are consistent with Hallowell's reports as are those in Matrix Al. If we now make the same assumption about the lack of danger in directing or attacking a child that was made above (p. 215) while retaining Pi as proportional to the tenth nower of the expected value of Ci, we get: (See Matrix B2 p. 221) If this version of the "fear of others" theory is more nearly correct than that presented in Matrices Al and Bl, then the probability that an adult will punish an offending child is even higher than in the version of Matrices Al and Bl. Pi in Matrix Bl are .11, .22, .35, and .32, while in Matrix B2 they are .011, .11, .52, and .36.

Formalization of the "fear of self" theory

Since this theory offers to explain the same observed behavior as the fear of others theory, it is identical in many respects and similar in others. In the "fear of others" theory, primitive o2 is "Ib is injured" and primitive o3 is "Ia is injured." In the "fear of self" theory, o2 is "Ib is injured moderately, " and o3 is "Ib is injured severely." The same assumptions about the relative values of the compound outcomes to Ia are made in both theories (although these outcomes have different meanings in the two theories), and the same assumptions are made about the probabilities of occurrence, given choice of C1, C2, C3, or Ch, of these primitives. Consequently, Matrix C1 is identical with Matrix A1, except that o2 and o2' and o3 and o3' designate different outcomes.

There may be some question about the meaning of compound outcomes containing combinations of "moderate injury to Ib" (and its negations) with "serious injury to Ib" (and its negations). These combinations are possible so long as "moderate injury" and "serious injury" are defined qualitatively. For example, an individual can receive both bruises (moderate) and fractures (serious) or he could be killed (serious) without receiving bruises. (It should not be concluded

	C) _L	\mathbb{G}	C2	01	valu
	•. \(\tilde{\ti	٠ در د	•12	0	01 value •015
	.079	• 13	() ()	0	02 03
	• 02);	.021	• 0);0	0	• 012
	.02); .00);2	.0070	.0):0 .073	0	0 ==
	•36	ن در	1	0	
	• の い い い い い い い い い い に い に い に に に に に に に に に に に に に	.32 .10	.27	0	1.ATRIX A2 05 06 07 .29 .23 .26
	• 019	.017	• 01; <i>8</i>	15	• 26
	.003/1 0.13	.0055 0.13	009	S	• 1 C
	0.13	0.13	0.17	0.19	EV(Gi)
6.67	0.14	0.11	0 • 22)	6.1	EV ¹⁰ (ci) (x 10 ⁻⁸)
	0.021	0.021	0.01;3	0.91	P 1

	560.1										
•36	210.		0075	• 0):3	• 1 l	• C1	Ö	0	O	0	CIL
• 57 22	300.	• N ©	013	• 030	. 2):	• 71	0	0	0	0	G
.11	63.	• 21	16	• O C C	1:0	26	0	0	0	0	C2
01	6.1	19		•15	0	0	0	0	. 0	0	C1
	(x 10 ⁻³)		•18	٠ 5	23	. 29 . 23	0	• 012	V .0000	• 91	value
Pi	EV ¹⁰ (Ci)	EV(Ci)	0	07	06	95	0).	္သ	20	01	
				22	MATRIX B2	1.7					

.

•

.

.

 $oldsymbol{\mathcal{E}}$

1

from these examples that <u>injury</u> is restricted to physical injuries. Any action which reduces the probability that an individual will produce an outcome which he values, produces <u>injury</u> and is classed as an <u>offensive action</u>.

Implications of the "fear of self" theory for adult interaction with offending children

When the subjective probabilities assumed in the "fear of others" theory were modified in accordance with assumptions about the subjective probability of a child's injuring someone through sorcery, this theory predicted that adults would punish an annoying child with a probability of .67. This interpretation of the "fear of others" theory is not supported by the analysis of the data (Ch 5). Nor does it seem possible to make it consistent with the data by minor modifications.

In testing the "fear of others" theory, it was hypothesized that adults believed that children were incapable of retaliating for adult direction or punishment. This hypothesis was justified on the basis of Landes's statements about the believed vulnerability of children due to their lack of supernatural powers.

In testing the "fear of self" theory, the critical issue is the beliefs of adult Ojibwa concerning the effects on children of directions or punishment.

Ci	01	02	္သ	01:	G E	ATRIX C1	C1 07	00	EV(Ci)	EV ³ (Ci)	Ρi
۲,	· 015	.0089 .012	.012	•	. 29	23	. 26	.18		.00758	
C1	O	0	0	0	0	0	•15	• 85	.19	.0069	.91
C2	20	•36	.067	.067 .12	.067	7 .12	• 022	· 04.1	.067	•00030	.039
$\mathcal{C}_{\mathcal{G}}$	•61	• 23 0	•032	• 011	.11	•035	- 0056	.0056 .0019	.060	•00022	.029
Clt	• 63	•12	.036	.0065 .12	•12	.022	- 0065	.0065 .0012	•0514	.00016	•021

compound courses of For convenient reference, action are presented below: the specifications of the compound outcomes and

C1 = c1 c2= c1c2

= neither direct nor attack
= direct and not attack

not direct but attack

11 11 11 11 11 11 11 11 01 02 03 01 02 03 01 02 03 01 02 011021031 01 021031 ಪ್ರಿಪ್ತಿ 11 11 11 11 11 11 11 11 annoyance does not stop, Ib injured moderately, Ib injured severely annoyance stops, Ib not injured moderately, Ib injured severely annoyance does not stop, Ib not injured moderately, Ib injured annoyance does not stop, Ib not injured moderately, Ib not annoyance stops, Ib injured moderately, Ib not injured severely annoyance does not stop, Ib injured moderately, Ib not injured annoyance stons, Ib annoyance severely injured severely $\Pi = \Pi$ c1 c2 stops, Ib injured moderately, Ib injured severely 11 11 both direct and attack not injured moderately, Ib not injured

000

20

-- -- -- -- -- -- -- --

the state of the s

•• •• ••

•

•

More than one hypothesis about adult beliefs is possible. The first hypothesis to be tested was that adults believe that children are affected by direction or attack to exactly the same extent that adults are affected. This leads to the deduction that the adult's probability of choice of each of the Ci is identical whether the offender is another adult or a child.

Tested under this hypothesis, the "fear of self" theory predicted adult behavior better than the "fear of others" theory did under the hypothesis of no fear of retaliation from the child. The results were, however, far from ideal. The null hypothesis could be rejected for twelve of the twenty-seven adults.

The observed behavior differed from the theoretical expectations under this hypothesis chiefly in the higher relative frequency of choice of C2 and lower relative frequency of choice of C1. It was also observed that the deviations from expected behavior were considerably greater at Lac du Flambeau than at Berens River. These observations suggested that, (1) the Ojibwa regard children as less vulnerable to direction than adults, and equally vulnerable to attack, and, (2) that since P2 is much greater at Lac du Flambeau that belief in the ability of children to take direction is a function

of level of acculturation.

On the hypothesis that adults believe that direction is less likely to injure a child than an adult and on the hypothesis that the extent of this belief is a function of level of acculturation, new estimates of the subjective probabilities of the various outcomes, given choice of C2, were prepared. It was possible to find subjective probability estimates which led to deduction of Pi very close to the average observed Pi for both locations. All subjective probabilities for C1, C3, and C4 remained unchanged. Table 8.3 displays the subjective probabilities of various outcomes, given choice of C2, as originally estimated and as modified for both communities

TABLE 8.3

SUBJECTIVE PROBABILITIES OF EACH OF THE OUTCOMES, GIVEN CHOICE OF C2 AS ORIGINALLY ESTIMATED AND AS MODIFIED FOR EACH LOCALITY. "FEAR OF SELF" THEORY; ADULTS IN INTERACTION WITH CHILDREN

	01	o2	03	01 *	021	o3 t
Original C2	•35	• 75	• 75	.65	.25	.25
Berens C2	•35	•55	· 1:5	•65	•45	•55
Flambeau C2	•35	•25	.15	. 65	• 7 5	.85

Using these subjective probabilities, the new

deduced probabilities of choice for each locality are as displayed in Table 8.4.

TABLE 8.4

PROBABILITIES OF CHOICE OF EACH OF THE COURSES OF ACTION, AS ORIGINALLY CALCULATED AND AS MODIFIED FOR EACH LOCALITY. "FEAR OF SELF" THEORY ADULTS IN INTERACTION WITH CHILDREN

	Original	Berens	Flambeau
PI	•91	•71	•50
P2	•039	•25	• <i>1</i> ₊ 7
P3	•029	•023	.016
PL	•021	•017	•012

REFERENCES CITED

Achoff, R.L.

- 1953 The design of social research. Chicago, University of Chicago Press.
- 1962 Scientific method: optimizing applied research decisions. New York, John Wiley.
- Bandura, Albert and Richard H. Walters
 1963 Social learning and personality development.
 New York, Holt, Rinehart and Winston.
- Barnouw, Victor
 - 1950 Acculturation and personality among the Wisconsin Chippewa. American Anthropological Association memoir 72.
 - 1963 Culture and personality. Homewood, Illinois Dersey.
- Barrett, S.A.
 - 1911 The dream dance of the Chippewa and Menominee Indians of northern Wisconsin.
 Bulletin of the Public Museum of the City of Milwaukee.
- Berkowitz, Leonard
 - 1962 Aggression: a social psychological analysis. New York, McGraw-Will
 - 1964 The development of motives and values in the child. New York, Basic Books.
- Bettelheim, Bruno
 - 1950 Love is not enough. Glencoe, Illinois, The Free Press
- Boggs, Stephon T.
 - 1950 Ojibwa socialization: some aspects of parent-child interaction in a changing culture. microfilm, Ann Arbor, University Microfilms, publication 11,55%.
 - 1956 An interactional study of Ójibwa socialization.
 American Sociological Review, 21:191-198.
 - 1958 Culture change and the personality of Cjibwa children. American Anthropologist, 60.
- Buss. Arnold H.
 - 1961 The asychology of aggression. New York, John Wiley.

Cameron, Norman A.
1947 The psychology of behavior fisorders. Boston, Houghton-Mifflin.

Churchman. C.W.

1961 Prediction and optimal decision. Englewood Cliffs, N.J., Prentice-Hall.

1917a Psychologistics. (Mimeo), Philadelphia, University of Pennsylvania Research Fund.

Churchman, C.W. and R.L. Ackoff

1917b An experimental definition of personality. Philosophy of Science, 14:301-332.

Churchman, C.W., Ackoff, R.L., and E.L. Arnoff 1957 Introduction to operations research. New York, John Wiley.

Densmore, Frances

1913 Chippewa music II. Bureau of American Ethnology Bulletin 53.

1929 Chippewa customs. Bureau of American Ethnology Bulletin 26.

Dollard, John, Doob, Leonard W., Miller, Neal E., and Robert R. Scars.

1939 Frustration and aggression. Yale University Press. New Haven.

Erikson, Erik H.

1963 Childhood and society, 2nd Ed. New York, W.W. Morton.

Fogelson, Raymond D.

Psychological theories of windigo "psychosis" and a preliminary application of a models approach. In Spiro, Melford E. (Ed), Context and meaning in cultural anthropology. New York, Free Press.

Freud, Sigmund

1938 The basic writings of Sigmund Freud; translated by A.A. Brill. New York, Modern Library.

1963 Notes upon a case of obsessional neurosis. reprinted in Rieff, Philip, Ed., Three case histories. New York, Collier Books.

Hagen, Everctt E.

1962 On the theory of social change. Homewood, Illinois, Dorsey.

Hallowell, A.I.

1931 Culture and mental disorder. Journal of

Abnormal and Social Psychology 29:1-9. "The passing of the Midewiwin in the Lake" Winnibeg Region. American Anthropologist, 38:32-51.

1955 Culture and experience. Philadelphia, University of Pennsylvania Press.

Hombol, C.G. 1912 T

The function of general laws in history. The Journal of Philosophy 39. Reprinted in Heigh, Herbert and Sellars, Wilfrid Readings in Philosyshical analysis, New York, Appleton-Century-Crofts.

Hickerson, Harold

1962 The southwestern chippewa. AAA Memoir 92.

Hoffman, Walter J.
1885 Midewiwin or grand medicine society of the Ojibwa. Burear of American Ethnology Report No. 7.

Horney, Karen

The neurotic personality of our time. 1937 New York, Norton.

1939 New ways in psychoanalysis. New York, Norton.

Kardiner, Abram

1939 The individual and his society. New York, Columbia University Press.

Kelly, George A.

1955 The psychology of personal constructs. W.W. Norton and Co., New York

Kroeber, Alfred Louis
1947 Cultural and natural areas of native North America. Berkley and Los Angeles, University of California Press.

Landes, Ruth

1937 "The Ojibwa of Canada" in Mead, Margaret (ed.) Cooperation and competition among primitive peoples. New York, McGraw-Hill.

1938 The abnormal among the Ojibwa Indians.

Journal of Abnormal and Social Psychology
33:14-33.

Linton, Ralph

1939 Foreword <u>in</u> Kardiner, Abram, The individual and his society. New York, Columbia University Press.

McClelland, David C.

1961 The achieving society. Princeton, N.J. D. Van Nostrand Co.

Mowrer, C. Hobart

1950 Learning theory and personality dynamics. New York, Ronald Press Co.

1960b Learning theory and the symbolic processes. New York, John Wiley.

Newcomb, T.M.

1947 Autistic hostility and social reality. Human relations, 1947, 1, 69-86

Orlansky, Harold

1949 Infant care and personality. Psychological Bulletin 46:1-48.

Parker, Seymour

1960 The wiitiko psychosis in the context of Ojibwa personality and culture. American Anthropologist 62:603-623.

Parsons, Talcott

1961 Social structure and the development of personality. in Kaplan, Bert, Ed., Studying personality cross-culturally. New York, Harper and Row.

Ritzenthaler, Robert E.

1953 The impact of a small industry on an Indian community. American Anthropologist, 55, 143-148.

- Scars, R.R., Maccoby, Eleanor E., and H. Levin 1957 Identification and child rearing. Stanford, California, Stanford University Press.
- Siegel, Sidney
 1956 Nonparametric statistics for the behavioral sciences. New York, McGraw-Hill.
- Spindler, George D.

 1955 Sociocultural and Psychological processes in Menomini acculturation. Publications in Culture and Society Vol. 5. Berkley, University of Claifornia Press.
- Spire, Melford E.

 1951 Culture and personality: the natural history of a false dichotomy. Psychiatry 14.

1953 Ghosts: an anthropological inquiry into learning and perception. Journal of Abnormal and Social Psychology, 48:376-382.

- 1961 Social systems, personality, and functional analysis. in Kaplan, Bert, Ed., Studying personality cross-culturally. New York, Harper and Row.
- Teicher, Morton I.
 1960 Windigo psychosis. Scattle, American
 Ethnological Society.
- Tetting, David R. and Jerry R. Hutchins
 1966 Comparison study of percentage of pure
 form (F) responses among two Ojibwa Indian
 groups. Unpublished term paper, Mi chigan
 State University.
- Thibault, J.W. and Coules, J.

 1952 The role of communication in the reduction of interpersonal hostility. Journal of Abnormal and Social Psychology, 17: 770-777.
- Wallace, Anthony F.C.

 1951 Some psychological determinants of culture change in an Iroquoian community in W.N.

 Fenton (ed.), Symposium on local diversity in Iroquois Culture. Bureau of American Ethnology Bulletin 149
 - 1952 The modal personality of the Tuscarora Indians, as revealed by the Rorschach test. Bureau of American Ethnology. Bulletin 150.

Whiting, John W.M., and Irving Child 1953 Child training and personality. New Haven Yale University Press.