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ABSTRACT

Fifty-one surveys designed to gather qualitative information on preschool programs in North Dakota were completed and returned by preschool teachers. Questionnaires focused on five major topics: population served, staff, parent involvement, program curriculum, and teacher and program needs. Results indicate that many teachers served fewer than 10 students; the majority of preschool programs did not include nonhandicapped students; few programs served children below age 3; support staff was providing services directly to children more frequently than through teacher consultation; speech/language therapy was the most frequently cited support service; parents were involved in their child's education; and a behavioral teaching style was/ much in evidence. (CL)

THE NATURE OF PROGRAMS SERVING PRESCHOOL HANDICAPPED CHILDREN IN NORTH DAKOTA

Amy Glasser Dell

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University of North Dakota

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Grand Forks, North Dakota 58202

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October, 1981

I would like to thank the following people for their assistance in the preparation of this monograph: David Kuschner, Richard Landry, Linda Reiten, Larry Smiley, and Cecelia Traugh.

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FOREWORD

The Bureau of Educational Research and Services has, for several summers, provided financial assistance to support faculty research activities. This monograph represents the results of one of those research activities.

Dr. Amy Glasser Dell was the recipient of a small sum of money to assist in conducting this study, which has attempted to identify and report about the nature of programs for preschool handicapped children in North Dakota.

Programs involving handicapped children have grown rapidly in recent years. The addition of programs dealing with preschool children has caused an even greater increase in relatively new programs. Several questions are posed in the study, and much data is provided in attempts to respond to them.

The Bureau is happy to have been able to assist in the conduct of this study, and is even more pleased to be able to provide this written report of the findings.

Larry L. Smiley, Director Bureau of Educational Research and Services



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Introduction

Since the passage of Public Law 94-142, interest in serving preschool handicapped children in the state of North Dakota has been increasing steadily. Literature pointing to the effectiveness of early intervention (e.g., as summarized in Tjossem, 1976 and Farran, et al., 1980) has contributed to this interest, while federal and state incentive grants have helped make services to preschool children a reality. Presently over 35 programs in the state are providing educational services to handicapped children under the age of six, and several more are expected to develop in the near future. Due to the newness of the field, however, verv little information is available on the kinds of services being provided. While administrative information on funding sources, budgets, incidences of handicapping conditions, and requirements for teachers has been compiled, educational issues such as program structure and curriculum have not yet received close attention.

The purpose of this study is to examine the nature of preschool handicapped programs in North Dakota with particular focus on curriculum and instruction. The research was designed to address the following questions:

- Who is/are providing educational services to preschool handicapped children?
- How are these services being delivered?
- What teaching approaches are used in these programs?
- Which assessment and curriculum materials are used?

- Are parents involved in the delivery of services, and if so what is the nature of their involvement?
- Are handicapped preschoolers being served in self-contained programs or are they integrated with their nonhandicapped peers?
- Do the programs serving preschool handicapped in this state reflect the directions of the field as expressed in the literature?

This monograph will begin with a summary of the trends and concerns in the field of early childhood-special education as expressed in the literature. The second section will describe the procedures used in this study including the survey instrument and the population of respondents. The data will be summarized in the third section and interpreted in the fourth. Emphasis will be placed on interpreting the results in light of the state of the art in the country as revealed by the review of the literature in chapter 1.

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I. CURRENT TRENDS IN EARLY CHILDHOOD EDUCATION FOR THE HANDICAPPED

The Handicapped Children's Early Education Program (HCEEP). founded in 1969 following the passage of P.L.91-230, Title VI (the Handicapped Children's Early Education Act), has vesulted in the establishment of several model preschool programs around the coun- 🍌 try. Demonstration projects such as the Portage Project (Shearer and Shearer, 1976), the Read Project (Baker and Heifetz, 1976), UNISTAPS (Northcott, 1972), the Rutland Center (Wood, 1975), and the Down's Syndrome Programs at the University of Washington (Hayden and Haring, 1976) have explored a wide range of services and teaching approaches in their efforts to provide early intervention to handicapped children. Despite the variety of these pro-In this section, grams, several common threads run through them. the major components of these demonstration projects will be presented.

Children who are under the age of eight and are handicapped or at-risk comprise the population being served by the model preschools. Some programs, the High/Scope Preschool (Banet, 1979) and the preschool program at the Institute for Rehabilitation Medicine of New York University Medical Center (Gordon and Schwartz, 1976), for example, serve only children from age three to six. Others, such as the National Collaborative Infant Project (Haynes, 1976) and the Meeting Street School Parent Program for Developmental Management (PPDM: Denhoff and Hyman, 1976), focus their attention

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on infants and toddlers. Miny demonstration projects start children as soon as they are identified, often at birth or in early infancy, and serve children through the preschool years. Model programs which serve the zero to six population include the Portage Project, the preschool program at the Bill Wilkerson Heari., and Speech Center (Horton, 1976), Bricker and Bricker's Infant, Toddler and Preschool Projec. (1976), Project SKI*HI of Logan, Utah (for hearing impaired children) and the Model Preschool Center at the University of Washington in Seattle.

The staff at most of these programs consists of teachers and a variety of support personnel. Many programs utilize a multidisciplinary or transdisciplinary approach (Allen et al., 1978), in which a team of professionals, each from a different discipline, work together to provide comprehensive services to each child. A few programs have experimented with unconventional staffing patterns such as utilizing high school students and other paraprofessionals. The group which represents the largest previously unused resource is the one comprised of parents. Parents work is part of the team in almost every demonstration project; in fact, parent involvement is one of the requirements of HCEEP. The rationale for involving parents in early education programs for the handicapped is summarized by Shearer and Shearer (1977). Levitt and Cohen (1975) illustrate the variety of roles which parents have fulfilled in early intervention programs. The Portage Project and the National Collaborative Infant Project, for example, rely on parents to serve as the primary teachers of their young children. Other programs, such as the Down's Syndrome Program (preschool level), acourage parents to carry on work at home which complements the



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services their children are receiving at a center. In addition, several programs attempt to provide support services and/or parent education classes for parents. Lillie and Trohanis (1976) provide an excellent summary of the scope of model parent programs. They describe "four dimensions" of parent programs: providing emotional support for parents, exchanging information, developing parent participation, and facilitating positive parent-child interactions.

The service delivery systems utilized by the demonstration projects usually involve instruction in children's homes and/or a preschool center. (In addition, several provide technical assistance and consultative services, and a small number provide prenatal care). Some provide only a home-based program (e.g., the Portage Project); others provide only a center-based program (e.g., the Retland Center); and still others provide some combination of home and center (e.g., the PEECH Project--Precise Early Education of Children with Handicaps, a program at the University of Illinois, Champaign-Urbana). In general, most of the programs which emphasize home programming are either in rural areas and/or involve infants and toddlers.

One of the most striking differences among the model programs lies in their approach to teaching. Karnes and Zehrbach (1977) identify six theoretical approaches evident in the model preschool programs but add that "they do not usually exist in a pure or simple form:

> Oper Education; precision-teaching with a heavy emphasis on language development; precision teaching based on developmental guidelines in the areas of gross and fine motor development, self help and social skills and cognitive language development; behavior modification; cognitive development instruction based on the work of Piaget; and the creation of a learning environment, with

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a particular emphasis on the physical aspects of that environment (pp. 21-22).

Anastasiow (1978) categorizes the differing theoretical approaches into four types: the normal developmental model, which is derived from preschools for normal children; the behavioral model, which stems primarily from the sperimental analysis of behavior; the cognitive jevelopmental model, which "translates Piagetian development principles into strategies for classroom programs," and the cognitive learning model, which "combines Piagetian and/or cognitive theory with the experimental analysis of behavior" (p. 89).

In addition to developing viable processes for early intervention, these model programs have demonstrated the value of two major trends in the field--the use of program-related assessment procedures and the integracion of handicapped preschoolers with their nonhandicapped peers. Conventional standardized tests have never been satisfactory with young handicapped children. With few exceptions (the Bayley Scales of Infant Development being one), most of the popular norm-referenced tests are culturally biased, inappropriate for use with handicapped children, and/or unrelated to preschoolers' educational programs. Hein (1979) provides a concise criticism of standardized tests as they relate to young children, and Vincent, et al. (1980) point out the particular problems with kindergarten screening tests.

Recent efforts have focused on alternative procedures to the assessment of foung handicapped children. Guinoe (1979) advocates greater use of informal assessment; Hein (1979) concurs: "Observation in the natural setting is the basis for understanding chil-

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dren." Bricker and Carlson (1980) recommend an "assessment linked", intervention." Their list of criteria for such assessment instruments include:

The evaluation instrument should reflect the curriculum concent of the intervention effort; and

The evaluation instrument should have enough flexibility to allow for use with a wide range of handicapped children (p. 46).

Several recently developed tests which meet these criteria and/or utilize informal observation procedures are worth noting. These include Lzgiris and Hunt's Ordinal Scales of Infant Psychological pevelopment (1975), an evaluation for children birth to 2^a (developmental age) based on Piaget's principles of sensorimetor development; the Developmental Therapy Objectives. Rating Form (DIORF; Wood, 1975), a developmental checklist which follows the psychodynamic curriculum developed at the Rusland Center; Brigance's Inventory of Early Development; and the learning Accorplishment Profile-Diagnostic Edition, a comprehensive criterion-referenced test developed at the Chapel Hill Outreach Project.

Bacussermann's Developmental Potential of Prescheol Children (1958), aithough an older procedure, meets Bricker and Carlson's criteria and is particularly informative with possically handicapped children.

The second trend in the field of carly intervention precipitated by the demonstration projects is the integration of handicapped preschoolers with their nonhandicapped peers. A list of model preschool programs which are mainstreamed include the Experimental Preschool of the National Children's Center (Curalnick, 1978, the Rutland Center Preschool Program (Wood, 1975), the High



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Scope Preschool (Ispa and Matz, 197"), UNISTAPS (Northcott, 1978), and Bricker and Bricker's Infant, Toddler and Preschool Project (1976). All of these programs recognize the unique contribution which peer relationships make to young children's cognitive and social development (Johnson and Johnson, 1980). Social interactions are seen as being at least as valuable as "academic" aspects of the preschool curriculum.

> Peer relations are not luxuries in human development... They contribute to the acquisition of basic social and communicative skills in a manner that interactions with adults cannot or will not produce (Hartup, 1978, p. 28).

The literature, previously ambivalent, is now beginning to show empirical support for mainstreaming, particularly at the preschool level. True integration of handicapped preschoolers with nonhandicapped children has been shown to be effective in several recent studies (Dunlor, et al., 1980; Peterson, et al, 1977; Peterson and 'aralick, 1977; and Kennedy, et al., 1976).' In addition, Bricker (1978) provides an excellent summary of the rationale for mainstreaming preschool children, dividing the numerous arguments into social-ethical, legal-legislative, and psychological-educational issues.

In addition to the issues discused above in relation to the demonstration preschool projects, recent literature points to a number of trends which are occurring in the area of curriculum and instruction. Social and emotional development are no longer secondary concerns in the field of preschool handicarped education. Rather, these areas of child development have become the focus of serious study and attention. Johnson and his colleagues (1980) summarize the research on infants' smiles and laughter, fears and anxieties, and surprise reactions and conclude that affective de-

velopment, is closely tied in with cognitive development. They then discuss the implications of this for the assessment and education of severely handicapped children. Elkind (1979) relates academic achievement to emotional attachment in young children and stresses the importance of recognizing children's "personal curriculum needs" in addition to their needs in developmental and school cur-Developmental Therapy, a curriculum for emotionally disricula. turbed children aged 2 to 14 which was developed at the Rutland Center in Georgia (Wood, 1975), focuses on teaching children to express their needs and feelings, cooperate in group efforts, and function independently of their teachers. Knoblock and Barnes (1979) describe a preschool program which is based on the model and which integrates severely emotionally distu. ed children with nondisabled children. The "partner" relationships which develop between the disturbed children and the nondisabled children are seen as critical for the success of their intervention.

Researchers in the area of language intervention also identify social and emotional development as major concerns. In their description of an intervention approach for communicatively handicapped infants and young children, Bricker and Carlson (1980) write: "We are convinced that the development of social/affective forms of behavior deserve our explicit attention" (p. 37). Mahoney and Weller (1980), in their article "An Ecological Approach to Language Intervention," stress the importance of "who does the language training" and "the people present during language training". They underscore the notion that "social communication is the core component of language intervention" (p. 30).

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This shift in emphasis of curricular content is paralleled by a shift in teaching approaches. Bricker and Carlson (1981, p. xxx) discuss the kinds of changes which need to take place.

> ...Sensorimotor, affective, & early language tehavion are closely related & often inseparable. This premise has implications for intervention programs. Most importantly, it suggests that an intervention approach with young children might be most logically and effectively formulated by the coordination of training targets across related domains of behavior rather than by developing isolated training that focuses on single behavioral domains... It is believed that many interventionists proceed in this fashicn implicitly. There are still teachers, however, who compartmentalize their instructions, and thus fail to encourage and reinforce language production outside the intervention session.

Schiefelbusch (1980) focuses on a change in theoretical approaches: "There is a discernible trend toward combining cognitive and behavioral approaches to language learning" (p. 10), and Anastasiow (1979) identifies the cognitive-learning model of Bricker and Guralnick as the direction in which preschool handicapped programs need to go. In a recent article (1981), he elaborates on this trend.

> A major shift has occurred in psychology in the past four years...The shift is from behaviorism or stimulus-response theories of learning to positions that are more cognitive in orientation...The trend is to draw upon the cognitive...and perceptual...theorists' ideas or hypotheses of how humans function and learn, and to use behavioral principles in organizing and arranging the learning environment...

> ...Early childhood education programs need to be more closely built on this more complex view of learning and development. Bricker's (1978), Guralnick's (1978) and other cognitive learning programs will be used as models for a new generation of early childhood programs...Teachers need to understand that handicapped children have more in common with normal children in terms of basic needs than is currently believed, particularly in the areas of emotional development and the need for creative play...(p. 277-278).

Play has long been an emphasis of early childhood programs,



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but it is only recently that its value in the education of handicapped children has been recognized. The importance of play and its complement, the manipulative environment, are discussed by Kamii and DeVries (1977) and Chance (1979). Banet (1979) describes how these are incorporated into a preschool program which integrates handicapped children. He points out the close relationship between active learning and the remediation of language impairments.

> For children with language delays or impairments, the active concrete experiences provide a context and a reason to talk with others. In the course of such experiences, peers can act as both models and sources of reinforcement. Asking other children for materials or equipment or describing what one has accomplished to the teacher are ideal ways for the child to utilize the language he is learning. This is language that is purposeful, social, and generalizable outside the classroom (p. 200).

Bricker and Carlson (1981) agree with this position and add:

It is discouraging to view program after program in which language intervention is conceived and executed as two daily 30 minute training sessions...A more effective format is to superimpose the language instruction over the many training activities that occur daily in the child's life (p. 43).

The trend, then, appears to be a convergence of the developmental concerns of early childhood education with the technological know-how of special education.

> Behaviorism (task analysis or applied behavior analysis) will be used as a technology of program construction and implementation while cognitive theories will be used as the theoretical basis to account for and describe human behavior. (Anastasiow, 1981, p. 277).

Simplistic views of teaching by reinforcement and punishment are fast becoming obsolete in the field of preschool handicapped education. The active role of the handicapped child in the learning process and the inter-relationship of all aspects of the curriculum are replacing behavioral perceptions of the child as a passive



learner in a curriculum which was highly segmented. It is expected that as research on early development of handicapped and nonhandicapped children grows, these trends will emerge as the state-ofthe-art in early intervention.



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II. PROCEDURES

A survey instrument was developed to gather qualitative information on programs in North Dakota which served handicapped children under the age of seven during the 1980-1981 school ar. The questionnaire was, of necessity, extensive; it was judged that a shorter form would not provide the kind of detail needed to reach the goals of the study. Most of the questions were written in multiple choice format. Many choices were provided and a category of "other" was included with each question in order to encourage the recording of precise information. Selected issues were investigated using open-ended questions. Appendix A contains a copy of the survey.

The limitations of studying preschool programs with only written information as data (Day, 1977) was noted, but neither funds nor time were available for travel around the state which would be necessary for observations of each program in operation. Consequently, the real data in this study consists of respondents' perceptions of their programs. It is hoped that the extensive nature of the survey instrument and the careful wording of questions compensate in part for the lack of objective observations.

Five major topics were covered by the questionnaire: the population being served, the teaching staff, parent involvement, program curriculum, and teacher and program needs. The first topic, student population, was included to gain a picture of the kinds of children being taught by the respondents, not for the purposes of

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estimating the number of children served in the state. The questions on teaching staff focused on the teachers themselves--their number in each program and their prior teaching experience, and on the support personnel--the nature and frequency of their participation in the programs studied. Two questions inquired about the administrative staff. The questions on parent involvement delved into the nature of teacher-parent contacts, teachers' roles in parent training, and teachers' expectations of parents, as well as the simpler issues of the amount of time teachers spent wi⁻ parents and parents spent working with their children.

The fourth topic, program curriculum, was the most complex. Several different kinds of questions were asked in order to provide a variety of data on which to base a picture of the teaching approaches used. Items on the interview form developed by Coodlad, Klein, and Novotney for their study of preschools in the United States (1973) were used as a model and adapted for the purposes of this study. Areas examined which relate to curriculum were service delivery systems (for example, home based vs. center based programs), room arrangements of preschool centers, the use and accessibility of toys and materials, assessment instruments used, respondents' perceptions of their curricular approach and the emphases of their curriculum, curriculum kits and materials used, the use of field trips, and the categorizing of activities into those which were primarily teacher-directed and those which encouraged children's choices.

The final topic, teacher and program needs, probed respondents' opinions of their program's space, their time with children and parents, the teaching staff, the administration and supervision

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of their program, and their own training needs. In addition, the opportunities for respondents' interactions with other professionals in the field was studied.

Survey forms were sent in late September 1980 to all practicing teachers of preschool handicapped children in the state of North Dakota. The newness of the field coupled with the relativaly low population of this rural state permitted this inclusiveness. Teachers were identified with the aid of the annual directory published by the Department of Public Instruction (Special Education Personnel in North Dakota: 1980) and through telephone conversations with professionals around the state. Included were public school teachers, special needs coordinators from Headstart programs, personnel from infant stimulation programs operated by community mental health centers, teachers in programs administered by the Department of Institutions (e.g., Grafton State School and the North Dakota School for the Deaf), and preschool teachers in two private schools. In addition, surveys were sent to the teachers in two programs for deaf-blind students since these programs served children seven years and under. Survey forms were not sent to personnel in agencies such as speech clinics and out-patient physical therapy clinics which provide therapeutic services to all ages. A total of 87 survey instruments was mailed. Appendix B lists all of the programs in the state which were sent questionnaires, and Appendix C contains a map of the state to show their geographic distribution. The data was coded and computerized using the Statistical Package for the Social Sciences (SPSS). Information which could not be quantified, such as answers to open-ended questions, was compiled by hand and combined with the computerized results.

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III. RESULTS

Fifty-one of the 87 surveys mailed were returned (59%). When the return rate is examined in terms of the percentage of programs which are actually represented, the figure is considerably higher A small number of respondents completed the questionnaire (82%). for their entire program, while the majority included information on their class or case-load only. In addition, a few surveys were inadvertently, sent to individuals who were no longer with a program. The make-up of the respondents was as follows: Thirty-five respondents (69%) were at the time of the survey employed by public They represent 18 public school programs. Only two schools. public school programs are not included in these rosults. Five out of the state's eight Headstart programs are represented (one respondent from each), as are two out of four infant stimulation programs (three respondents). Four respondents representing four separate programs were teaching in programs at state institutions; two were teaching in private schools, and one was providing services through a mental health center. In summary, the 51 respondents represent 32 out of 39 programs from around the state.

Population being Served

Table 1 summarizes the data from question one, "How many children are you currently serving?" The mean number of children per respondent was 12.5. If the variable of population is viewed as an indicator of the size of a program, it can be seen that there



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was a fairly even distribution (36%, 36% and 29%) between programs which were small (serving less than 10 children), medium (serving 10 to 18 children), and large (serving more than 19 children). The second survey question regarding the population being served was addressed to the degree of the children's handicapping conditions. These results are summarized in Tab<u>Ac</u> 2. Only a small percentage of respondents were serving more than 11 children of any one degree of handicapping condition at the time of this study (10%, 18%, 4% for mildly, moderately and severely handicapped respectively). Much more frequent was the category of one to five. Mildly handicapped and moderately handicapped children were found in the greatest number of respondents' programs (a total of 70% each). Severely handicapped children were found in 56% of respondents' programs; the reverse of this indicates that 42% of the preschool handicap ed teachers who responded to the survey were not serving youngsters with severe handicaps. In addition, most respondents who did serve severely handicapped children were serving fewer than five (42%). Only 187 were serving more than six severely handscapped children.

TABLE 1

PERCENTAGE OF RESPONDENTS INDICATING

NUMBER OF CHILDREN SERVED

Number of Children Served	Percent of Respondents
	· · · · · · · · · · · · · · · · · · ·
1-5	16
6-9	20
10-18	36
19 +	29



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PERCENTAGE OF RESPONDENTS INDICATING NUMBERS OF CHILDREN IN PROGRAMS BY THE DEGREE OF THEIR HANDICAPPING CONDITIONS

Numbe Degree of Handicapping Condition	r Of Child s O	ren Scrve 1-5	d By Resp 6-10	onders 11+
Mildly Handicapped	22%	36%	32%	10%
Moderately Handicapped	227	55%	16%	8%
Severely Handicapped	42%	42%	14%	4%
Not Handicapped	84%	4%	2%	10%

The largest figure in Table 2, 84%, represents the percentage of respondents whose programs for preschool handicapped children were self-contained, that is, they did not include children who were not handicapped. Of the 167 who were working in mainstreamed programs, four were Headstart personnel and three were from public school programs.

The population being served by respondents was also examined in terms of categories of handicapping conditions. Table 3 presents the percentages of respondents serving fewer than five, sixto-ten, and 11 or more of the specified handicapping conditions. A general pattern emerges. The highest percentages fall in the zero and one-to-five range. The number of teachers serving six-totup children of a nandicapping condition was comparatively low; lower still were those serving 11 or more of on. handicapping condition. More than half of the teachers surveyed were not serving children whose primary handicapping condition was a visual impair-



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PERCENTAGE OF RESPONDENTS INDICATING

NUMBER OF CHILDREN IN PROGRAMS BY

THE CATEOGRY OF THEIR HANDICAPPING CONDITION

	0	Number of 1-5	Children 6-10	Served 11+
Physically Handicapped	337	55%	6%	6%
Visually Impaired	69%	28%	0	27
Hearing Impaired	66%	26%	4%	27
Developmentally Delayed	27%	447	167	82
Speech & Language Problems	29%	407	67	247
Behaviçr Problems	51%	46%	0	0
Multiply Handicapped (combinations of above)	41%	36%	14%	87

ment (69%), hearing impairment (66%) or behavior problem (51%).
The only handicapping condition which was found in great quantity in any one program was speech and language problems (24% indicated that they serve 11 or more children with this handicap). Table 4 contains the mean number of children per respondents' programs having each of the handicapping conditions listed.

The multiple handicaps described by respondents varied widely and included such combinations as developmental aelay/speech and language problem, physical handicap/mental retardation, bown's Svndrome/visual impairment/hearing impairment, deaf/blind, and hydrocephalus. A small number of respondents added other handicapping conditions such as poor fine-motor coordination (3 children), enzyme deficiency (1), emotional adjustment (3), Cri du Chat Syndrome



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 $\cdot 24$

MEAN NUMBER OF CHILDREN PER

HANDICAPPING CONDITION

Conditions	Mean*	
 Developmentally Delayed	5.6	
Speech and Language Problems	5.4	•
Multiply Handicapped	3.1	
Physically Handicapped	2.6	
Hearing Impaired	1.1	
Behavior Problems	0.9	
Visually Impaired	0.7	

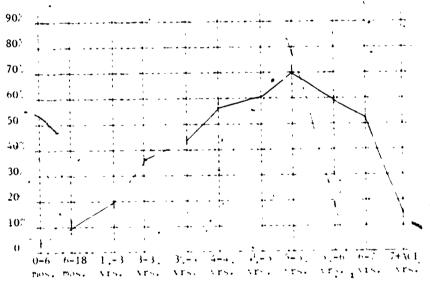
(1) and post trauma physical impairment (3).

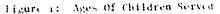
The ages of the children in the programs surveyed was the next area of inquiry. Figure 1 summarizes the results of this question. There is a clear increase in the number of children served by preschool handicapped programs as their ages increase from infancy to age 5¹ and a clear decrease as their ages increase from 5¹ to seven. The age group 5-5¹ was served by the greatest number of respendents' (732). The second lengest age groups in respondents' programs were 5¹ -6 (592), $4-4^{1}$ (592), and $5-5^{1}$ (577). The number of programs serving children under the age of three was extremely low, with 20% of respondents serving toddlers (1¹-3 years), '14% serving infants between the ages of six to 18 months, and 6% (three programs) serving children from birth to six months. Of this youngest group, it is worth noting that each of these three pro-



grams served two or fewer infants when this survey was completed. In fact, for the total infant and toddler age group (birch to three years), only four respondents indicated that they served more than three to five children. A similar decrease in the number of children served is apparent at the older end of the scale. Of the 49' of respondents who were serving six to seven year olds, 42' were serving fewer than five. Similarly, of the 14' who served children age 7 and above, only 4' served more than five.

" respondent: serving





Fight f recar to data to spectations to induction students' constrained photometers one constrained to the of the arrow. It is interesting to note that the smalles<u>t</u> concentrates tell at the two extremes of confletel substraines of hereint. When is secular free pool bis care (2) totals and



Kindergarten (20% total), and self-contained placements, such as • Primary TMH (16% total), Severely/Multiply Handicapped (12% total), Emotionally Disturbed (6% total), and Learning Disabilities (6% to-The most common future placement was the Preschool Handital). capped Program: 54% indicated that one to five of their students would be placed in such a program, and 26% indicated that six or more of their children would remain in a Preschool Handicapped Pro-First Grade with a Resource Room or other special help was gram. the second most common expected placement (38%: one to five; 10%: six or more). A regular First Grade class ranked third, and a Primary Educable Mentally Handicapped class ranked fourth. The 18% of the respondents who checked "other" mentioned the following possible placements (each one for fewer than five children): Selfcontained Kindergarten, Self-contained Hearing-Impaired, Combination of Learning Disabilities class and First Grade, and Headstart.

Staff

Table 6 addresses the number and roles of staff in North Dakota's programs for preschool hand(capped ch.)dren. The unexpected figure of zero teachers for 4) of the programs is explained by the fact that services in these two programs were provided by a coordinator and/or aides only. A clear majority of respondents (p57) indicated that their program as staffed by one teacher only. The number of respondents checking two or more teachers was small, and many of these respondents worked in one large program.

Table 7 summarizes the respondents' prior teaching experience.

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RESPONDENTS' EXPECTATIONS REGARDING FUTURE

EDUCATIONAL PLACEMENTS OF THEIR STUDENTS

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Expected Placement in One Year	0/	Num 1-5	ber of 6-10	children 11-20	21+
Remain in Infant Prog.	84%	6%	8%		2%
Preschool Hand. Prog. 🚿	18%	54%	14%	8%	4%
Regular Preschool/Day Care	90%	6%	2%		2%
Kindergarten	80%	18%	2%		
Kindergarten with'Resource Room (with special help)	6 9% `	22%	6%	2%	
lst Grade	61%	24%	8%	6%	
lst Grade with Resource Room (or special help)	51%	38%	Ś	2%	
Primary EMH (self-contained)	65%	30%	4%		
Primary TMH (self-contained)	84%	16%			
ED (self-contained)	94%	6%			
LD (self-contained)	94%	6%			
Severely or Multiply Handicapped	88%	10%	2%		
Other	82%	18%			_'_

TABLE 6

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STAFF PER PROGRAM

	0	1	2-5	6+
Feacher(s)	4%	65%	16%	12%
Teacher Aides	31%	35%	32%	6%
Support Personnel	22%	10%	42%	24%
	24	4	*	



Sixty-six percent had taught for four or more years before the survey was taken, but only 34% had taught preschool handicapped children for that amount of time. Of those, only 8% had taught preschool handicapped children for more than five years. The majority (62%) had been teaching in this field for three years or less.

TABLE 7

TEACHER'S PRIOR EXPERIENCE

	Years Teaching	Years Teaching Preschool Handicapped
l year or less	16%	22%
2-3 years	18%	40%
4-10 years	56%	34%
ll+ years	10%	

The picture for teacher aides is different. There is an even distribution among none (31%), one (35%) and two to five (32%). This parallels the distribution among small, medium, and large programs. In examining the figures for support personnel, the reader will note that 22% of respondents reported that there were no support personnel associated with their program, and that 10% had only one. The majority, however, appear to have had access to support services, with 42% reporting 2-5 and 24% indicating six or more support personnel providing services.

The kinds of suppor ersonnel and the frequency of the services they provided to the programs was the topic of the next three questions. Table 8 lists in numerical order the percentages of respondents whose programs included services provided by various



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SUPPORT PERSONNEL

Support personnel	% Respondents
Speech/Language Therapist	- 88
Occupational Therapist	63
Physical Therapist	61
Nurse	43
School Psychologist	43
Social Worker	39
Other	43
Consulting Teacher/ Coordinating Teacher Learning Disabilities Teacher Family Therapist Physical Education Teacher Vision Consultant Tutor Home-bound Teacher Nutritionist Dorm Counselor Audiologist Habilitation Consultant Case Manager Hearing Consultant OT/PT Aide	• • •

most frequently used professional, with 88% indicating this. Close seconds were the occupational therapist (63%) and the physical therapist (61%). The nurse, the school psychologist, and the social worker were used in less than half of the respondents' programs. Additional support personnel is listed under "Other" in Table 8. Although the number of programs utilizing any one individual was extremely low (between 21-16%), this list includes valu-



FREQUENCY OF SUPPORT PERSONNEL PROVIDING

SERVICES TO CHILDREN

	Frequently*	Occasionally+	When Needed	No Response or not ap- plicable
Speech/Language Therapist	75%	8%	4%	8%
Occupationat Therapist	38%	20%	10%	32%
Physical Therapist	40%	10%	12%	34%
Nurse	10%	14%	18%	53%
School Psychologist	4%	8%	26%	59%
Social Worker	8%	4%	20%	69%
Other (includes list fr Table 9 plus fost Grandparent)		4%	 \	76%

*Daily to 2-3 times per week

+Once per week to once per month

able suggestions for alternative staffing patterns.

Tables 9 and 10 provide data on the frequency of services provided by support personnel to the children themselves and to the respondents on a consulting basis. A comparison of these tables with Table 8 is useful. With one exception (the speech/language therapist) the figures under "frequently" are substantially lower than the figures in Table 8. In other words, although support personnel were included in a large number of programs (as shown in Table 8), their actual involvement was not as extensive as it originally appeared. A second finding from this data is that support services provided directly to the children were on a more frequent

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basis than consultations with respondents. The number of people checking "not applicable" or not responding to the question on consulting with support personnel was consistently higher than the number under Yrequency of direct service. In both Tables 9, and 10, the nurse, school psychologist, and social worker appear to be used primarily when needed, with only a few respondents checking frequent or occasional services for each of these.

TABLE 10

FREQUENCY OF SUPPORT PERSONNEL

	Frequently*	Occasionally+	When Needed	NR or NA
Speech/Language Therapist	28%	36%	6%	2 2%
Occupational Therapist	14%	24%	10%	43%
Physical Therapist	18%	16%	10%	51%
Nurse	6%	12%	14%	63%
School Psychologis	2%	10%	20%	65%
Social Worker	4%	10%	16%	69%
Other	4%	8%		86%

CONSULTING WITH RESPONDENTS

*Daily to 2-3 times per week

+Once per week to once per month

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The final inquiry about staff related to the administration and supervision of the programs. The results of these questions are found in Tables 11 and 12. Particularly notable is the high percentage (74%) of programs which were administered by the public schools. The number of programs administered by non-public school



agencies was extremely low (22%). Table 12 shows that almost half (49%) of the respondents were responsible directly to the director of their special education unit. Thirty-one percent were supervised by a coordinator, usually an individual who in turn was responsible to the director." Very few respondents considered their building principal to be their direct supervisor. Interestingly, at least one institutional program was directly supervised by <u>three</u> different agencies, the Department of Institutions, the Department of Public Instruction, and local special education units.

TABLE 11

ADMINISTRATION OF PROGRAMS

Administered by:	% Respondents
Public School	
Special Education Cooperative	45
Local School District	29
Total	74
Non-public School	
Mental Health Center	6
State Department(s)	8
Other (includes Private Board of Directors, Local, and Federal Government)	8
Total	22

Parent Involvement

The frequency of contacts between respondents and parents ranged from 2-4 times a year to every day. Table 13 presents this



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Supervised by:	7 Re-pondents
Director of Special Education	49
Program Coordinator	31
Other: Includes:	26
Principal Superintendent Agency Director Speech and Hearing Coordinator Institutional Personnel Communicy Representative	

DIRECT SUPERVISOR

Only 10% of respondents checked 2-4 contacts a year. This data. figure included one Headstart program and two programs at state institutions. The majority of respondents indicated more frequent contacts, either weekly or monthly. A small percentage (15%) checked every day. The nature of these parent contacts is the subject of Table 14. The most frequent contacts with parents (88%) involved IEP and/or Placement meetings, and telephone conversations. checked loaning of toys respondents than half the Less and/or teaching materials to parents (45%), holding group meetings parents (43%) and observations of parents teaching at for home (41%)

Half of the respondents indicated that parents were expected to-spend some amount of time working with their children at home. Twenty-four percent checked 1-3 hours a week, while 22% checked 4-6 hours a week. Only two respondents expected parents to work with their children seven or more hours a week. The remaining 50%

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FREQUENCY OF PARENT CONTACTS

 Frequency	% Respondents	
2-4 times/year	. 10	
Every 2-4 weeks	32	
Every week	24	_
Every day	15	•
Varies with child	20	

TABLE 14

NATURE OF PARENT CONTACTS

Mature of Parent Contacts	Respondents
IEP and/or Placement Meeting	88%
Telephone Conversations	88%
Informal Discussions at Home	80%
Notes and/or Newsletters Sent Home	78%
Parent-Teacher Conferences	71%
Children's Arrival & Departure Times	71%
Teaching Demonstrations at Home	55%
Loaning of Toys and/or Teaching Materials	45%
	43%
Group Meetings for Farents	
Observations of Parents Teaching at home	
Other: Including Test Interpretations & Screening Regular Follow-up	12%
Resident Staffing Parents Observing at Center	



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did not answer this question or checked not applicable. Table 15 lists (in their own words) respondents' expectations regarding the role of parents in their service delivery system. These expectations are divided into formal and informal a tivities. Carrying out prescribed activities clearly heads this list. Twenty-three respondents included this expectation, with five specifying that the activities were "drills." Keeping written records, either anecdotal or in the form of carts, was the second most frequent expectation.

TABLE 15

RESPONDENTS' EXPECTATIONS OF PARENTS

Expectations of Parents	# Respondent:
FORMAL ACTIVITIES:	
Carry out prescribed activities	23
Keep written records	10
Observe in classroom cegularly	5
Attend regular meetings	4
Learn behavior management techniques	1
Serve on Policy Council	1
INFORMAL ACTIVITIES	all 1 or 2
Observe in classroom (whenever)	
Volunteer to help in classroom (whenever)	
Interact and play with child daily	
Review child's work & discuss with him	
Attend socials	
Serve on Committees	
Communicate effectively with child	
Enroll child in recommended services	
Help child attend regularly	



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The companion question to respondents' expectations of the role of parents in their programs was the role of the respondent in instructing or supporting parents. A compilation of respondents' descriptions of these roles is found in Table 16. The most frequently occurring answers parallel the most frequent response in Table 15, that is, explaining and demonstrating teaching activities/tasks to parents (13 each). On-going supervision of home programming is the third item on the Pist, and conducting meetings/ workshops for parents is the fourth.

Curriculum:

The subject of curriculum is so encompassing that a breakdown of this section was necessary. Five sub-headings will divide this section--Service Delivery System, Room Arrangement, Materials, Assessment Procedures, and Teaching Approach. Each of these topics, although presented separately, is closely related to the other four and must be considered with reference to them.

Service Delivery System

Almost half of the respondents' programs (49%) were primarily center-based. This means that the teacher's main responsibility was to plan and operate a preschool or other group program which her students attended regularly. Seven respondents (14%) indicated that their programs were primarily home-based, that is, the children were visited at home by the teacher, and teaching was conducted by both the teacher and the parents. Over a third of the respondents (37%) checked that their programs were a combination of home and center. Some of these programs provided programming at a center with regular home visits to each child. Others provided





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TEACHERS' ROLES: INSTRUCTING AND SUPPORTING PARENTS

(IN WORDS OF RESPONDENTS)

Teacher's Roles	# Respondents
Explain Teaching activities/tasks	13
Demonstrate teaching activities/tasks	13
Supervise home programming (on-going)	10
Conduct parent education meetings/workshops	9
Assist with referrals	5
Provide materials	4
Listen to parents, discuss anything	4
Maintain resource library	2 or less
Model effective teaching procedures in school	2 or less
Provide encouragement	2 or less
Provide written instructions	2 or less
Suggest alternative family scheduling	2 or less
Establish rapport and trust	2 or less
Provide counseling	2 or less

center programming for some of their students and home programming for others.

Contact hours per child per week ranged trom one hour/week (2 respondents) to over 30 hours/week (8 respondents) with 20-30 hours/week being the most frequent response (35%). Twenty-five percent saw their students less than 10 hours/week, while 25% saw them 10-20 hours/week. For programs which had a center component (86%), the nature of its scheduling was also examined. Center schedules

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ranged from once a week for 2-3 hours (1 respondent) to five days a week, all day (10%). In between was every possible combination. In general, 147 checked that their center program met a few halfdays per week, 37% indicated half-days every day, and 6% indicated slightly below full-time. One program provided a center program only twice a week but for the entire day, and one provided a center component one hour every day. The latter was the smallest amount of contact time for preschoolers in a residential program. Four respondents wrote that center scheduling for a child depended on individual needs.

Room Arrangement

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In answer to the question, "Is your room divided into distinct/separate learning areas?" 31% of respondents checked yes, 51% checked "somewhat," and 8% checked no (10% did not respond). Table 17 lists the kinds of learning centers/activity areas which were included in respondents' centers. The most frequent were a reading/quiet area (65%) and a manipulative materials area (63%). The least popular were a woodworking area (12%) and a science area (10%). Less than half the respondents indicated that their center had a house/fantasy play area (49%), art area (41%), sand/water center (39%) block area (39°) or an outside area (317). Slightly moge than half (57%) checked that their center had a separate space for special one-to-one teaching or therapy, and 73% checked that their room contained one or more tables which could accommodate all the children for an activity. Of these, 63% indicated that such a toble was used often.

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LEARNING CENTERS/ACTIVITY AREAS

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Learning Center/Activity Area	7 Respondents
Reading/Quiet Area	65
Manipulative Materials Area	63
Large Motor Area	53
Music Area 💉 🔹	51 ·
House/Fantasy Play Area	49
Art Area	× 41
Sand/Water Center	39
Block Area	39
Outside Play Area	` 31
Woodworking Center	11
Science Area	10
Other: Includes:	25
Circle/Language Area (12%)	
Pre-academics	
Whole Group-Sharing	
Numbers	
Infant Stimulation	
Self-Care -	
Snack	
Wark Stations	
Listening Center	
Teaching Center	



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Materials

When the toys/materials listed in question 36 (see Appendix A) are categorized into curricular areas, the following results emerge: manipulative materials such as puzzles, balls, and blocks appeared the most frequently, with materials relating to art and music activities ranking second. Preacademic materials followed. The materials which appeared least frequently were role playing and make-believe materials such as puppets, dolls, dress-up clothes, and housekeeping furniture; materials which foster large motor development such as climbing apparatus; materials which foster cognitive development (in addition to materials listed in other categories) such as sand and accessories; and self-help/community responsibilities materials such as student cubbles and living organisms. This data is presented in Table 18.

The accessibility of toys/materials to the children is the focus on Table 19. Only nine out of the 59 listed materials were checked by more than half the respondents as being accessible to their students most of the time. An additional 15 materials were checked by 33-50% of respondents as being accessible. Materials which were not checked accessible were checked "available at the discretion of the teacher." Table 19 shows that the majority of the most accessible materials (41%) were from the category of fine motor/manipulative. Only one-sitch of the most accessible were from the most category called self-help community/responsibilities.

Assessment Procedures

Table 20 lists assessment tools which were reported by three



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USE OF MATERIALS

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Curricular Area	Materials	% Respondents Indicating Yes
<i>_.</i>		92
Fine Motor/	Balls	- 83
Manipulative	-Wooden-Puzzles-	81
	Small Blocks	79
	Beads	73
	Large Blocks	67
	Stacking Rings	67
	Table Top Trucks, Cars, Trains	65
	Cardbook Puzzles	59
	Infant Toys	53
	Large Knobbed puzzles	
	Mechanical toys	41
	• Tools	36
Art	Paper	88
ALC .	Scissors	88
	Crayons	86
	Clay/Play dough	80
	Finger Paints	77
	Easel & paints	69
	Collage Materials	53
	Disessed for Decounds	• 83
Music	Phonograph & Records	75
	Tape Recorder	73
	Tapes	71
	Rhythms Instruments	28
	Piano	F .
Preacademics	Story books	79
	Chalkboard	73
	Filmstrips	69
	Flannel Board	69
	Math Materials	62
	Books Primers, Texts	56
	Workbooks	49
	Magnetic Board	3()
Role Plaving/	Puppets	77
Make Believe	Dolls	63
Hake belleve	Large cars, Trucks, Trains	59
	Stuffed Animals	55
	Dress-up clothes	51
	Housekeeping Furniture	45
	Play Farm	43
	boll House	43
	Play School or Hospital	35
	Doll carriage/buggy	35
	Puppet Theater	31
	••	
	- 42	



Curricular Area	Materials	% Respondents Indicating Yes
Large Motor	Large Trucks, Cars, Trains	59
Large notor	Climbing Apparatus	53
	Scooters	51
	Slide	49
	Swings	43
	Tricycle	43
	Wagon	39
Cognitive	Sand & Accessories	57
(excluding those materials listed above)	Water `lay Toys	55
Self-Help/	Cooking Materials	63
Community	Student Cubbies	53
Responsibilities	Plants	24
Responsioniteres	Live Animals	14

TABLE 18 (Continued)

or more respondents as being part of their evaluation procedures. The Peabody Picture Vocabulary Test heads the list with 767 checking this standardized test. Only one other test was checked by more than half the respondents, the Test for Auditory Comprehension of Language (TACL, 572). All other assessment instruments were reportediv used by fewer than 507 of respondents. Table 21 categorizes all the tests listed by respondents; it indicates that the most frequently checked tests were either developmental checklists such as the Portage Guide to Early Education or the Learning Accomplishment Profile (LAP) (frequency of 16), or tests designed to assess language development such as the Peabody Pictur Vocibulary Test, the TACL, or the Boehm Test of Basic Concepts (frequency of 15). The number of norm-referenced tests of intelligence (or development), such as the Alpern-Boll Developmental Profile or the Slosson Test of Intelligence, was 10, and the number of screening



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Materials ,	/ % Respondents Checked Accessible	Curricular Area
Wooden Puzzles	67	Fine Motor
Large Blocks	63	Fine Motor
Library/story Books /	63	Preacademics
Small Blocks	61	Fine Motor
Dolls	55	Make Believe
Stacking Rings	53	Fine Motor
Beads	53	Fine Motor
Puppets	51	Make Believe
Paper	51	Art
Cravons	49	Art
Cubbies	49	Self-help
Dress-up Clothes	49	Make Believe
Cardboard Puzzles	49	Fine Motor
Stuffed Animals	49	Make Believe
(1kh.ard	-+7	Preacademics
Large Trucks, Cars, Trains	43	Fine Motor
Large Knobbed Puzzles	43	Fine Motor
Balls	43	Fine Meter
Housekeeping Furniture	4 I	Make Believe
Cooking Materials	39	Self-help
lufant Toys	39	Fine Motor
Play Farm	37	Make Believe
Clay/Playdough	35	Art

ACCESSIFILITY OF TOYS/MATERIALS TO CHILDREN

instruments, such as the DIAL or DASI, was nine. The least frequently checked assessments in Table 21 were tests of social development and preschool-level evaluation procedures that measure cognitive skills but are not norm-referenced, such as Ordinal Scales of Infant Pyschological Development (Uzgiris and Punt, 1975)



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Assessment Tool	% Respondents Reporting Use
Peabody Picture Vocabulary Test (PPVT)	76
Test for Auditory Comprehension of Lanuguage (TACL)	57
Boehm Test of Basic Concepts	49
Checklist of own design	45
Portage Guide to Early Childhood	42
Developmental Indicators for the Assessment of Learning (DIAL)	41
Preschool Language Scale	41
Developmental Activities Sequenced Inventory (DASI)	30
Peabody Developmental Motor Scales	29
Sequenced Inventory of Communicative Development (SI	CD) 27
Illinois lest of Psycholinguistic Abilities (ITPA)	27
Venver Developmental Screening Test (DDST)	24
Alpern-Boll Developmental Profile	24
Learning Accomplishment Profile (LAP)	22
McCarthy Scales of Children's Abilities	22
Slosson Test of Intelligence	22
Stanford-Binet Intelligence Scale	20
Bayley Scales of Infant Development	20
Wechsler Preschool and Primary Scales of Intelligene (WPPSI)	ce 20
Receptive-Expressive Emergent Language Scale (REEL)	12
Brigance Inventory of Early Development	12
Bankson Language Screening Test	10
Behavior Characteristics Profile (BCP)	10
Merrill Palmer Scale of Mental Tests	8
Gesell Development Schedules	6
Carrow Elicited Language Inventory (CELI)	6
Haeussermann's Developmental Potential of Preschool Children	6
Meyer's Early Childhood Developmental Scale	6
Learning Accomplishment Profile-Diagnostic Edition Ordinal Scales of Infant Psychological Development	(LAP-D)6 6

TABLE 20 ASSESSMENT TOOLS USED BY RESPONDENTS



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CLASSIFICATION OF ASSESSMENT TOOLS

Category	Assessment Tool Report	
		`
Developmental	Checklist of own design	45
Checklists	Portage Guide to Early Education	42
	Learning Accomplishment Profile (LAP)	22
Total = 16	Brigance Inventory of Early Development	12
	Behavior Characteristics Profile (BCP)	10
	Gesell Development Schedules	6
	Meyer's Early Childhood Developmental Scale	6
	Marshalltown Project - Behavioral Developmental Profile	4
	Uniform Performance Assessment System (UPAS)	4
	Carolina Developmental Profile	2
	Minnesota Child Development Inventory	2
	Preschool Profile (University of Washington)	2
	Sewall Early Education Development (SEED)	2
	Michigan Early Intervention Developmental Profile	2
	Callier-Azuza Scale for Deaf-Blind Children	2
	Education of Multi-handicapped Infants (EMI)	2
	Peabody Picture Vocabulary Test (PPVT)	76
Language Development	Test for Auditory Comprehension of Language (TACL)	57
Total = 15	Boehm Test of Basic Concepts	49
10tal - 15	Preschool Language Scale	41
	Sequenced Inventory of Communicative Development (SICD)	27
	Illinois Test of Psycholinguistic Abilities (ITPA)	27
	Receptive-Expressive Emergent Language Scale (REEL)	12
	Bankson Language Screening Test	10
	Carrow Elicited Language Inventory (CELI)	6
	Developmental Sentence Scoring (DSS)	4
	Goldman-Fristoe Test of Articulation	4
	Assessment of Children's Language Comprehension (ACLC)	2
	Lindamood Auu tory Comprehension Test (LAC)	2
	Token Test fo Children Ski-Ni Receptive Vocabulary Test	2 2
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Category		ondents
Norm-referenced	Alpern-Boll Developmental Profile	24
Tests of Intelli-	McCarthy Scales of Children's Abilities	22
gence (or Devel-	Slosson Tests of Intelligence	22
opment)	Stanford-Binet Intelligence Scale	20
opment /	Bayley Scales of Infant Development	20
Total ≖ 10	WPPSI	20
	Merrill Palmer Scale of Mental Tests	20
	Draw-a-Man	8
	WISC-R	2
	Leiter Intelligence Test	2
Screening Tests	DIAL	41
	DASI	30
Total = 9	Denver Developmental Screening Test (DDST)	24
	Screening tool developed locally	6
	Metropolitan Readiness Test for Kindergarten	4
	Inventory of Readiness Skills	2
	First Grade Screening Test	2
	Test for Ready Steps (Houghton Mifflin)	2
-	Preschool Inventory	2
Motor Development	Peabody Developmental Motor Scales	29
•	Berri Visual-Motor	2
Total = 7	Test of Visual-Motor Integration	2
	Checklist for Sensory Dysfunction & Reflex Development	2
	Gross Motor Development and Bobath	2
	Milani-Comparetti Motor Development Screening Test	2
	Movement & Assessment of Infants (University of Washington)	2
Not Norm- Referenced:	Haeussermann's Developmental Potential of Preschool Children	6
Cognitive	Learning Accomplishment Profile- Diagnostic Edition (LAP-D)	6
Total ≖ 3	Ordinal Scales of Infant Psychological Development (Uzgiris-Hunt Scales)	6
Social Development	Vineland Social Maturity Scale	2
a · · · - ·	,	

TABLE 21 (Continued)

Total = 1

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and Developmental Potential of Preschool Children (Haeussermann, 1958).

TABLE 22

RESPONDENTS' CHARACTERIZATIONS OF THEIR

TEACHING APPROACHES

Curricular Approach % Re	espondents
Combination of Behavior Management and Developmental Şkill Areas	24
Developmental Skill Areas	18
Combination of Béhavior Management, Developmental Skill Areas, and Psychodynamic	10
Behavior Management	6
Cognitively-Oriented and Developmental Skill Areas	8
Cognitively-Oriented, Developmental Skill Areas and Behavior Management	4
Traditional Nursery School	4
Behavior Management, Montessori, and Cognitively-Orient	ed 2
Cognitively-Oriented and Psychodynamic	2
Developmental Skill Areas and Psychodynamic	2
Behavior Management and Traditional Nursery School	2
Structured Language	2
Infant, Neuro-developmental	2
Multi-cultural	2
Parenting Skills	2

Teaching Approach

Respondents' perceptions of their curricular approaches are summarized in Table 22. Sixty-six percent of respondents included Developmental Skill Areas in their characterization of their curriculum. Forty-+ ht percent included Behavior Management. Only 16% included Cognitively-Oriented, and only 14% included Psychodynamic. Identifying one single philosophy as their teaching ap-



proach was not common (less than one third); rather, the majority of respondents indicated that their curriculum was comprised of two or more different approaches. No respondent indicated that their curricular approach was primarily Cognitively-Oriented, Psychodynamic, or Montessori.

TABLE 23

RESPONDENTS' PERCEPTIONS OF CURRICULUM EMPHASIS

Area of Emphasis	% Respondents
Language/Communication	31
Language. and Cognition	16
All Skill \reas Equally	14
Cognition	8
Sensory Motor/Perception	8
Language and Socioemotional Development	6
Socicemotional Development	4
Language, Cognition, and Sensory Motor	4
Language, Social and Sensory Motor	4
Language and Sensory Motor	2
Prevocational/Self-Help	2
Gross and fine motor	2

Respondents' perceptions of the emphasis of their curriculum are shown in Table 23. With 63% checking it, Language/Communication was selected by more respondents than any other area of emphasis (this excludes the 14% who checked all areas equally). No other single area was checked by more than 50% of respondents. Cognition was mentioned as an area of emphasis by 28% and Sensory Motor/Perception was included by 18%. Only 14% included Socioemorional Development as an emphasis in their curriculum. Pre-



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academics were included in more than half of the respondents' programs. Table 24 lists the pre-academic areas covered by respondents' curricula. Reading readiness was the most frequent response (55%), with art and math following closely (49% each). Social studies (18%) and science (12%) were included in only a few programs, and reading was checked by three respondents only. Thirty-six percent of respondents did not respond or checked "not applicable" to the question on pre-academics.

TABLE 24

PRE-ACADEMIC AREAS INCLUDED IN CURRICULA

Pre-academic Areas	% Respondents
Reading Readiness	55
Art	49
Math or Arithmetic	49
Music	47
Language Arts	39
Movement/Dance	29
Social Studies or Our Community	18
Science	12
Reading	6

Curriculum kits and materials which are produced commercially were used by 59% of respondents. Of these 12% checked that they followed a curriculum closely, and 47% indicated that they used such curricula but altered them somewhat. Twenty-five percent had access to commercially-produced materials but used them only some-



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times, and 14% used them rarely. A list of the curriculum materials used in respondents' programs is found in Table 25. The Peabody Language Development Kit and the Peabody Early Experiences Kit (PEEK) were the clear favorites, with 15 and 14 respondents respectively mentioning them. No other curricular material was noted by more than six respondents. Table 26 provides a breakdown of these curricula by subject matter. Kits and materials which are designed to teach language skills were the most frequently men-"Overall curricula," that is, curricula which tioned (42 times). include all areas of development, were mentioned 16 times. Only four of these were written specifically for infants and/or severely handicapped children. The least frequently listed materials fall under the heading of fine motor development and, if we artificially distinguish between language and cognitive skills, cognitive development.

The data on activities in which the teacher played the primary directing role and those in which children chose what they wanted to do is presented in "able 27. These were open-ended questions and the activities listed in this table are in the respondents' own words. Teacher-directed activities clearl dominated the respondents' programs. The only two "child-directed" activities which were mentioned by more than 5 respondents were free play and outside time. The length of the free play periods should be noted. Only 3 respondents reported a free play period of more than 30 minutes. A much larger number (12) indicated a 25-30 minute free play, but often these referred to 'arrival times, that is, many of the children did not arrive until well into the scheduled free play period. In contrast to this limited number of child-directed ac-



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CURRICULUM MATERIALS LISTED BY RESPONDENTS

Curriculum Kits and Materials	# Respondents
Peabody Language Development Kit	15
Peabody Early Experience Kit (PEEK)	14
DISTAR-Reading, Math and/or Language	6
Portage Guide to Early Childhood	6
Boehm Resource Guide for Basic Concepts (or CUP)	5
Planning Guide to the Preschool Curriculum (Chapel H	111) 3
Marshalltown Project-Behavioral Developmental Profil	e 3
Game-Oriented Activities for Language (GOAL)	3
Developing Understanding of Self and Others (DUSO)	3
Alphaphonics	3
Dubnoff	2
Sullivan Reading Program	2
Other	1 each
RADEA	
Developmental Syntax Program	•
MWM for Visual Problets	
Santa Clara Inventory	
Learning Language at Home	
Learning Accomplishment Profile (LAP)	
T.A. for Tots	
DLM Photo Lab	
Goldman-Lynch Sounds & Symbols Development Kit	
Uniform Performance Assessment System (UPAS)	
Education of Multi Handicapped Infants (EMI)	
Wabash Center Curriculum	
Adaptic	
Montessori Materials	
Lavatelli Materials for Seriation, Classification Measurement, and Space	1,
Ready, Set, Go, Talk to Me (Environmental Langua) Intervention Program)	ge



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CURRICULUM MATERIALS BY SUBJECT MATTER

Subje : Matter	Curriculum Kit or Material	# Respo	ndents
Language	Peabody Language Development Kit		15
Development	Peabody Early Experiences Kit (PE	EK)	14
Development	DISTAR (language)		4
	Boehm Resource Guide for Basic Co (or CUP)	ncepts	5
	GOAL		3
	Developmental Syntax Program		1
	Learning Language at Home		1
	Ready, Set, Go, Talk to Me		1
		Total	42
"Overall"	Portage Guide to Early Childhood		5
Curricula	Planning Guide to the Preschool		3
Curricula .	Curriculum (Chapel Hill)		
	Marshalltown Project		3
	RADEA		1
	Learning Accomplishment Profile		1
	Uniform Performance Assessment Sy (UPAS)	vstem	1
	Education of Multi-Handicapped In (EMI)	nfants	1
	Wabash Center Curriculum		1
		Total	16
Duadana	DISTAR Reading		2
Reading	Alphaphonics		3
	Sullivan Reading Program		2
	Coldman-Lynch Sound & Symbols Development kit		1
		Iotal	-8
Social Develoment	Developing Understanding of Self and Others (DUSO)		3
Devel Gene	IA for Tots		1
		lotal	4
Fine Motor	Dubnoff	Tetal	<u></u>
Deve_opment		iteat	-
	Marani Morariale		1
Cognitive	Montessori Materials		î
Development	Lavatellí Materials	Total	.,
		rotar	•

tivities, 10 kinds of teacher-directed activities were mentioned by

at least 10 respondents.



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The final topic to be discussed in this section of teaching approaches is the use of field trips in the preschool curriculum. Sixty-nine percent checked that they had either taken field trips with their students or planned on taking some during the year.

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TEACHER-DIRECTED ACTIVITIES AND CHILDREN'S CHOICES

Teacher-Directed # Activities	Respon- dents	Activities in which " Children Make Choices	Respon der.ts
Language	25	Free Plav	27
Academics	18	5-15 minutes 9 20 minutes 3	
One-to-one (Therapy or Tutoring)	16	25-30 minutes 12 30-45 minutes 2	
Snack/Meals	16	45 minutes 1	
Gross Motor	16	Outside/Gross Motor/ Recess	13
Fine Motor	12		
Music and Movement	12	Snack	4
Arrival/Opening Activity	12	Art/Creative Activities	4
Reading Readiness	10	Center Time	٠
Story Time 🇭	10	Physical iducation	3
Large Group	8	Masic	3
Home-based Activities	8	Reading/Story Time	2
Rest Time	7	Order of activity (hone- based)	?
Art 'Creative Activities	5	Choose one thing	2
	4	Cognitive Time	1
Small Group .	# 3	Arrival	1
Writing Tactile Stimulation	3	Reinforcement	i
Work Time	3	4 6	
Social Studies, Science, D	-		
show and Tell	1		
Many of the remaining 31	worked	in programs which were pr	inari
home-based, that is, their	weekly	time with a group of child	ren wa
verv low. A few, however,	, taught	in center-based programs.	Tab



	TA	BL	E	28
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FIELD TRIPS

Destination of Field Trip		spo n- ents	Destination of Field Trip	2 or Fewer Respondents
Fire Station		19	Nurserv/Greenhouse	2
Farm (including dairy, cattle farms) Park/picnic (including			Radio/TV Station Skating	
city, and town parks	5)	11	Post Office Train/Bus Depot	
shows there) Zoo		11	Nursing Home Theater	
Grocery Store Police Station	•	8 7	Gas Station Sausage Making Pl	ant
Fair/Winter shew Fast food establishmen (including ice cream	t joints	6 6 ,)	Cream <mark>er</mark> v Car Dealer Hotel	
Swimming Shopping Center Nature Walk Airport Museum (including hist sites) Hospital Local Businesses Restaurant Bakery Pet Shop Pumpkin Patch Homes (including the b		6 5 4 4 4 4 4 3 3 5)3	Chicken Hatchery Cheese Plant Haircuts at Beaut Coca Cola Plant State Capitol Bui Produce Stand Where Parents Wor Plays Church Public School Pro Train Yards Artist's Studio Special Arts Fest	lding K Ograms
·			-	

28 lists the places which respondents visited with their students. The most frequently mentioned field trips were to the fire station,



a farm (this included dairy farms, sheep farms, and cattle farms), a park/picnic (this included state parks, city parks, and town parks), the library (this included puppet shows at libraries), and the zoo. The many other field trips are included in Table 28 because, although not mentioned by a large number of respondents, the places represent a wealth of ideas for other preschool teachers.

Needs of leachers

Data gathered on needs of respondents and their programs indicated that approximately half the respondents (46.) felt their training was adequate and the other half (51°) felt that it was "somewhat adequate." Only one person checked no, that her training was not adequate. Areas identified as being high priority for further training are listed in Table 29. No single area ranked extremely higher than the others, but two, teaching the blind/visually impaired and teaching the deaf/hearing impaired, were checked by more respondents than any other topic. It should be mentioned that several respondents who had checked that their training was adequate also checked some areas for further training.

Asked about the adequacy of their program's space, time, and staff, respondents did not check "too much" on any item. The were split roughly in half ("too little" vs. "adequate") over their administrative support, their time available for work with parents, and the adequacy of their staff. Fifty-nine percent felt that the time they had with the children was adequate. Table 30 presents this data. The needs of their staff was explored further, and Tuble 31 contains the results to this greation. A speech/language therapist was ride fried as being needed by 37 of respondents. Either an additional taff member or more time from an existing one



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AREAS FOR FURTHER TRAINING

IDENTIFIED BY RESPONDENTS

Areas for Further Training	% Respondents
Teaching the Blind/Visually Impaired	36
Teaching the Deaf/Hearing Impaired	34
Curriculum Design	30
Assessment	27
Handling the Physically Handicapped Child	27
Teaching the Severely Handicapped Child	25
Creative Activities	22
Bebavior Management	18
Child Development	16
ILPS	ξ ώ
Working with Parents	12
Reading	12
Screenin;	×
Jeam Teaching	6
Classroom Management	<i>k</i> ₂
other:	2 cacti
Pre-operational state of Development and Cognitive Activities Impulsive Children/Socialty Malad, fied Child Concernence Development Base remod Interaction	dren
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se seculies, "Burta-five creent indivited	
"extra ands" were needed either in the fors of	
parent or student volunteers. More than half (5	
deats checked that their curriculum was adequat	elv concerved and



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convenient to implement. Thirty-seven percent answered this question with a "somewhat" and 47% checked "no". Six percent did not respond.

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TABLE 30

PROGRAM NE"DS

,	Too Little	Adequate	Too much
Space	37*	61	0
Time spent with children	37-	59`	.0
Time available for work with parents	47*	51*	0
Staff	•3	45	0
Administrative supervision and support	d 45°	53	0

The final question relarding the needs of North Dakota's personnel in preschool handicapped related to their interactions with other professionals in the field. Durty-five percent of the respondents checked that they did not interact informally on i , ular basis with teachers in other profession is serving one i^{-1} handicapped children. Seminteen recent indicated that such interactions occurred with one other professional, 2b checked 2-4 other personnel, and 2+ checked 5 or more. In other words, only 50 of the respondents had regular opportunities to discuss their teaching with more than one other professional in preschool handicapped.



TABLE 31	T	AB	LE	31
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NEEDS FOR ADDITIONAL STAFF

Staff Member	Respondents Identifying Need
Speech/Language Therapist	37
Teacher Aide or Volunteer	35
Occupational Therapist	29
Teacher	29
Physical Therapist	```16
School P-vchologist	12
Supervisor	10
Nurse	8
Social Worker	6
Other:	
Tearher of Emotionally Disturb Tutor Teacher in Learning Disabiliti Developmental Disabilities (oo	es





IV. DISCUSSION

The results of this survey provide a comprehensive picture of early childhood/special education programs in one state of the nation. Since North Dakota is not an extremely reactionary of progressive state in either politics or education, the study's results should be representative of the state of the art in many other states as well. In general, the findings reveal no horrors, nor do they discover any exemplary programs. Rather, the picture is one of dedicated professionals doing their best with the resources that are available in this relatively new field. In some programs the resources are quite adequate; in others their absence is felt.

In this section, interpretations of the results will be presented along with a discussion of the strengths and weaknesses of the programs as revealed by the survey data. Although some of the shortcomings identified may be due to forces beyond the ordinary teacher's control (such as an agency's budget or its policies), many are related to curriculum and the actual practice of teaching young handicapped children. It is hoped that this discussion will serve as "food for thought" for those involved in such teaching.

The data gathered on the population of children being served by preschool handicapped programs contained few surprises. The predominantly rural nature of the state appears to be reflected in the high number of respondents who served fewer than 10 children, the small number of children of any one handicapping condition in any one program, and the extremely small number of children with



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low incident handicapping conditions. It seems appropriate, however, to raise a question about the 43% of respondents who were not serving severely handicapped children. Was this due to an actual low incidence of severely handicapped preschoolers? Was it the result of a reluctance on the part of teachers to label young children as severely handicapped? Or was it a result of a lack of availability of qualified staff prepared to teach children who function below a one or two year developmental level? Are there severely handicapped preschoolers in the state who are not being served because services for preschool children are only permissive, not mandatory in North Dakota? This is an important area which warrants further investigation.

The addition of preschool-aged children to North Dakoca's state institutions was evidenced in the data on population. Although almost all the programs surveyed were non-categorical, residential programs at state institutions showed populations limited to single handicapping conditions. It will be interesting to see if these residential preschool programs expand over the next few years or if local programs around the state will become more capable of educating preschoolers with low incidence handicapping conditions.

The most glaring point found in the data on children being served was that, at the time of the study, the overwhelming majority of preschool handicapped programs in the state did not include nonhandicapped children. Nor is there any evidence to suggest that this segregation of preschoolers has changed since this study was completed. It is particularly distressing to note the meager number of public school programs (3 out of 18) which attempted to mainstream their preschoolers. Is the placing of pre-



school handicapped programs under the office of special education causing this exclusion of nonhandicapped children? Are the people in delision-making roles not aware of the value of mainstreaming young children? Are 'teachers? Convincing arguments for integrating handicapped and nonhandicapped preschoolers, which are available elsewhere (Bricker, 1978; Guralnick, 1978; Turnbull and Blacher-Dixon, 1980), convey clearly the benefits which arise out of this mixture of young children. It is most unfortunate that at an age in which social development is at least, if not more, critical than other areas of development (Johnson and Johnson, 1980), preschoolers are being denied this opportunity for crucial social interactions.

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The second major concern to stem from this study relates tυ the 45 of the children being served. The data indicated strongly that 1) children below the age of three were served by only a few programs; and 2) children who were three and four years old were served more than infants and toddlers but less than those who were kindergarten age. The first finding, although very distrussing, was expected. Services for zero-three are not mandated in North Dakota and P.L. 94-142 has done nothing to change that. Neither public schools nor Headstart programs will serve children younger than three. Only the mental health centers and one residential institution were serving this population at the time of the survey. Hopefully recent funding decisions at the state level will encourage more programs to serve children of this age. What was surprising, however, was that although services to three, four, and five-year-olds were increased by Preschool Incentive monies, it appears that many programs chose to concentrate on the five-and six-



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year-olds, neglecting the true preschoolers in the process. The reasons for this are not clear. Regardless, if early intervention is to be effective, efforts will have to be made to identify and serve children no later than their third birthday.

Taken as a whole, the data on staffing patterns and support personnel were impressive. A substantial number of respondents seem to have had access to a variety of support personnel and at least some paraprofessional assistance. A notable finding, however, was that support personnel were providing services much more frequently to children directly than through consultations with teachers. This may be the one major deficiency in the provision of support services. Consultations of quality and regularity represent one key to providing consistent and therefore, more effective, programming.

A second notable finding relates to the use of the so-Not unexpectedly, the frequency of programs uticial worker. lizing a social worker was low. However, with few exceptions, the social worker was not listed as a high priority need. This raises questions about the present role of the social worker, teachers' perceptions of her role, and her possible future role in preschool programs. With increasing involvement of parents in their children's education, and the (long over-due) consideration of the complex needs of families of children newly diagnosed as handicapped, there is a real need for some professional to assume the role of contact person, counselor, and advocate. Preschool teachers do not have sufficient time to give parents (as made evident in Table 30), and social workers represent excel-



lent alternatives, particularly with their training in communication skills, counseling, and the legal rights of children.

The one discipline providing support services which stood out above all the others was speech/language therapy. Of the respondents, 88% indicated that a speech therapist participated in their program, with 75% of these checking that `the speech clinician served the children (requently (at least two to three times per This is the lighest percentage in the entire study, and it weck). is significant when examined in relation to other data. Tests for language development were reportedly used by more respondents than any other category of standardized tests. The reader will recall that the three most frequently used as essment instruments were the Peabody Picture Vocabulary Test, the Test for Auditory Comprehension of Language (TACL), and the Boehm Test of Basic Concepts, all easy-to-administer measures of recritive language. The number of curriculum kits and materials which focused on language far exceeded any other category of curricular material mentioned by respondents. Again, the most popular curricular materials were language-related--the Peabody Language Deyelopment Kit and the Peabody Early Experiences Kit (PEEK). Furthermore, language/communication was checked as a major emphasis of their curriculum by 63% of respondents, higher than any other curricular area. This group of data leads to the conclusion that children's language was the major focus of most preschool handicapped programs in North Dakota.

It is difficult to determine whether this language emphasis is pedagogically sound or an unhealthy skewing of the curriculum. There are several possible explanations for it. The most obvious, of course, is that delays in language development represent the



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most prevalent problem among the preschool landicapped population being served. Certainly speech/language services are needed by many young children in addition to those identified as speech/language delayed; children with physical handicaps, hearing impairments, multiple handicaps, or overall developmental delays often benefit from. speech/language intervention. And it follows that if language is identified as a major area of concern, tests and curricula designed to facilitate the establishment of language will be utilized.

However, although this explanation is logical and at least in part supported by the data, the question arises: is language development so important that it warrants greater attention than motor development, cognitive development, or social development? Other factors which may account for this trend must be considered. A number of programs in this survey were staffed by individuals trained as speech theralists, not teachers. With little or no training in other areas of development, were these personnel unintentionally focusing on language at the expense of other areas of development? A similar question can be asked of those teachers whose training and experience were primarily in special education. With their strong background in working with school-aged children, were they emphasizing language because it is the closest area of the curriculum to academics? Or is the explanation simply that more curricular and assessment materials are available in the area of language than any other developmental area? The answers to these questions are beyond the scope of this study but they suggest an important topic for further research into preschool curriculum.

The staff needs presented in the final section of the survey



warrant serious consideration. A speech therapist, teacher aide, occupational therapist, and/or additional teacher were specified as being needed by approximately one third of the respondents. While the majority of respondents appeared to be adequately served by each of these professionals, those that are not cannot be overlooked. This is especially important for the Headstart programs. In several areas of the state, particularly on the Indian reservations, Headstart is the only available service for preschool handicapped children. They are all understaffed and seriously need teachers or tutors with some training in early childbood/special education.

Another problem identified by this study which calls for close attention was the lack of opportunity for more than one third of the preschool handicapped personnel to interact regularly with other professionals in their field. This problem is highlighted because it is more serious than most people realize and because it is one of the easier ones to rectify. As noted before, many teachers of preschool handicapped children who were surveyed did not have extensive preparation in teaching young children. Nor did they have supervisors with that kind of training. Contact and conversation with their colleagues was the one alternative many of them had for professional development. It is reassuring to learn that at least 48% of the respondents had regular opportunities to discuss their work with two or more colleagues. On the other hand, it is to the children's disadvantage that 17% had regular interactions with only one other professional in preschool handicapped and that 35% had no such interactions.

A superficial examination of the data would suggest that these

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results were predictable considering the rural nature of the state. A cl ser examination, however, reveals some interesting findings. Four respondents who indicated no regular professional interactions were not from rural areas of the state but from urban areas. Their isolation was apparently due to other reasons. The other four who had no regular interactions were employed at residential schools. The isolation of staff, then appears to be one more problem facing These results support the notion that special state institutions. conventions or informal meeting times on a statewide or regional basis need to be arranged for personnel serving young handicapped Possibilities for such activities exist at the annual children. state conventions of the North Dakota Association for the Education of Young Children (NDAEYC) and the state Council for Exceptional Children (CEC). Other possibilities for bringing together personnel in preschool handicapped programs include organizing a clate chapter of the Division of Early Childhood (DEC) of the Council for Exceptional Children, or utilizing resources from the Department of Public Instruction and/or Project P.H.I.N.D. (Preschool Handicapped Instruction in North Dakota), the University of North Dakota's personnel preparation project in preschool handicapped for special inservice activities.

A definite strength of North Dakota's preschool handicapped programs which emerges from this study is the process of involving parents in their preschoolers' education. Every respondent claimed some regular contact with parents, and only a small number (5) indicated that these were infrequent. The large majority saw themselves devoting a substantial amount of time to parents, and close to half indicated that they would like more time to work with



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parents.

The nature of their contacts with parents is also promising. Informal discussions on the telephone and at children's homes, and notes and newsletters sent home engaged almost as many respondents as the required HP/Placement meeting. The lists of teachers' expectations of parents and of the teacher's role in the parentteacher relationship contain several additional kinds of contacts and suggest that many preschool teachers are aware of the special role parents of young handicapped children can play in their child's education. In addition to the familiar practice of parents carrying out prescribed teaching tasks at home, the lists include several uncommon indicreative ideas such as suggesting alternative family soleduling to belp parents accommodate a child's special needs, and belping pirents to interact informally and play with their child on a daily basis.

while these efforts incloud ble and represent a definite improvement over schools' mevious attitudes lowards parents, preschool protrams have meven greater oblication to parents of handicapped children. New often pirents' first awareness or acknowledgement of their solid's special needs occurs when that child attends abool for the first time, in this case, preschool. The first time a child is labelled "hundicapped" or is placed in a "undicapped" program can be a very fragile first for parents, a time in which communication and support are essential. The results if this study, however, suggest that only a few programs are helping parents in this regard. Providing information to parents "through such activities as a resource library or group meetings, which has been shown to be effective and highly valued (fillie and

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Trohanis, 1976; Turnbull and Blacher-Dixon, 1980) does not stand out as a high priority. Less than half the respondents showed involvement in these kinds of activities, and, it is important to note, several of these respondents came from the same program. That is, the most extensive parent program represented in this study was based at one of the largest preschool programs in the state. This finding suggests a second conclusion regarding parent education programs--that there is "strength in numbers". A larger student population and consequently, a larger parent pepulation and larger staff may make a parent education program more feasible. While a small program has the advantage of personalized attention to all children and parents, a larger program presents more opportunities for group efforts. 1

An even smaller number of respondents identified activities which provide emotional support to parents or which help parents cope with the dails realities of having a handicapped child in the family as a component of the services provided by their program. Apparently, most parents are "on their own" as far as coping is concerned. This contrists sharply with the needs expressed by parents in the literiture (furnbull & Turnbull, 1978). It would be worthwhile to pursue this issue and investigate the a tual effectiveness of North Dakota's parent programs by questioning the parents themselves.

The data on parent involvement begins to suggest an outline of the picture of curriculum in North Dakota's preschool programs. The reader will recall that the most frequent expectation of parents and teachers related to task - oriented instruction. Playing with children and arranging for their interactions (with



either adults or other children) did not rank highly. These trends are confirmed by the data on curriculum. Both respondents' perceptions of their teaching approaches and the data on room arrangement, teaching and assessment atorials, and the tole of the teacher support the conclusion that preschool programs in North Dakota rely heavily on behavioral technology and neglect the concerns of cognitive, social, and psychodynamic theorists.

In most of the programs reviewed in this study the teacher was viewed as the major change agent. Leacher control of activities and children's behavior was seen as crucial for the establishment of -ills in which children were deficient. This deficit-learning approcess, connecteristic of many special education programs, cends to focus on a child's weaknesses rather than his strengths. Efforts in directed it remediating those weaknesses as directly as possible. Thus, curricula such as DISTAR, the Peabody kits, and RADEA were used by several preschool programs; most programs that encourand parents to work with their children at home emphasized carring out specific activities prescribed by the teacher (six repondents, in fact, chose the word "drill" to describe their expectations of parents); room arrangements, accessibility of materials, and daily schedules were such that the teacher was in full control of the classroom activities. The extensive list of activities directed primarily by the teacher (see Table 27) supports this interpretations of the data.

Even more revealing was the small amount of time allotted for tree play. Only a little more than half the respondents indicated that their daily schedule included free play, and of these, only a small number had set asid: a sufficiently lengthy period of time



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for free play. Free play emerges from the data as a time-filler, a non-disruptive activity which kept the children involved while they waited for other children to arrive or go to the bathroom. It was viewed as a brief intermission, a relief, from the "real" learning activities. In few programs did it stand as a valued and integral part of the curriculum. (hildren's play as a whole was secondary to other, more school oriented goals such as reading readiness or 1 mguage remediation.

Similarly, other basic tenets of a cognitively-based curriculum were missing from most of the programs surveyed. Concrete experiences with real objects, opportunities to make choices and develop decision-making skills, and opportunities for problem solving were not priorities in most of the programs studied. The reader will note, for example, the extremely small number of respondents who indicated the presence of a live plant or animal in their program. The beavily teacher-directed bias is evident in Table 27 which contrasts activities in which the children of opportunities to make choices. The weight of indicated that their children were asked to make choices of a live honcademic of ivities as snack time, art creative activities, and music!

The fita on room irringements also points to a toiclet-directed emphasis. Although many respondents reported the existence of activity areas in their programs, these scened limited to the more convenient reading quiet area and manipulative material area. Both of these activity centers call for somewhat quiet, clitics activity. Areas which are more "messy" and which encourage more social interactions and play, such as a house/make-believe area, art area or block area, were noted by fewer than half the respon-



ь» • • • • • dents. A science area, which encourages exploration and experimentation, was included in fewer than 15 of respondents' programs. Data on the accessibility of materials, children's opportunities for making choices during the day, and the use of a large table to accommodate all the children support the notion that most of the curricula are not learning center based.

This tendency away from play and social interactions is particularly troublesome when considered in relation to them. .cular emphasis on language discussed above. A heavily tracher-directed i, mach focuses on children's language with the teacher, not on functional communication with other children or adults. This contrasts harply with the current views of language intervention expressed by such leaders in the field as Bricker and Carlson (1980), Mahonev and Weller (1980) and Schiefelbusch (1989). To paraphrase Mahones and Weller, "social communication" does not appear to be "the core component of (the) language intervention" being provided in the pre-chool programs studied. Similarly, Banet's (1979) Sugestion that active learning is necessary or order to estably h "lan.uase that is purposeful, social, and cover dizable outside the" classroop" contrasts noticeably 'row the tendant approaches which characterized the preacheol programs in this study.

It is inattertion to construct and social concerns is supported in the respondents' example expression of their teaching approaches, or 1 to included constrontion and only 14 included ps chodynamic in their characterization of their curriculum. Approximately, one quarter of the teachers mentioned cognition as in area of a check in their curriculum and 14 mentioned socioemetional development.

In contrast to these low figures, 66 of respondents included .

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developmental skill areas in their characterization of their curriculum, and developmental checklists were reportedly used by more respondents than any other kind of assess ' procedure. There appears, then, to be some focus on child development in the preschool programs studied. It is the authe 's opinion, however, that developmental skill areas have been used in only a narrow sense, for a superficial categorizing and sequencing of skills to be taught. This is certainly the case with the majority of developmental checklists used by the respondents. The Portage, LAP, BCP, Marshalltown, and 'PAS are all behaviorally-oriented curricula which utilize developmental skill areas in this limited way. While these checklists are extremely valuable in their own right, their use does not suggest a developmental perspective.

The reasons for this general behavioral teaching style are not difficult to deduce. Although many respondents are relatively new to the field of early childhood handicapped (see lable 7), more than two thirds have been teaching in some field for four years or more. The tendence of public schools has been to hire individuals from special education, not regular education, to fill positions in preschool handicapped (since individuals trained in preschool fondies, ped are limited in number). (onsequently, a large number of resendents received their formal training and prior teaching operance in special education which, semerally speaking, trains students in task will sis and pres riptive-teaching, not in methods which enghanize the facilitation of cognitive and social developlant. The gpreah of supervising accords also affects program arricula, ind the number of respondents who here supervised bv fil os of special education in the public schools is high. Con-



sidering these factors of prior training, previous teaching experience, and the general philosophy of supervising agencies, it comes as no surprise that North Dakota's preschool handicapped programs are more behavioral in nature than cognitively- and sociallyoriented.

As noted in the review of the literature, however, the field of early childhood handicapped has been developing in recent years into an unusual blend of traditionally opposing viewpoints. The precision and accountability concerns of special education have been mingling with the social and cognitive concerns of early childhood education. The reader will recall the quotation from Anastasiow (1981) included in section II:

> ...leachers need to understand that handicapped children have more in common with normal children in terms of basic needs than is currently believed, particularly in the ircas of emotional development ind the need for creative play...(p. 278).

The shift that Anastasiow writes about is not vet evident in the programs reviewed in this study. Neither of the aforementioned "basic needs" wis paid much attention by most of the programs surveved. The relative unimportance of play and social interactions was suggested by the extremely small number of programs which integrited 'andicapped' preschoolers with their nonhandicapped' peers and is highlighted by the data on materials and daily scheduling. Materials for make-believe play or role playing were noted by respondents considerable less frequently than materials for fine motor development and preacademics. Furthermore, in most programs, materials for mike-believe play were available only at the discretion of the teacher. Saad and water play materials were available in half the respondents' programs but were accessible to chil-



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dren in less than 25% of their programs.

The ap between the trends in the literature and the state-of the-art in the field encompasses more than just teaching styles. developed The most sensitive and valuable assessment procedures for preschool handicapped children (many in recent years) were included in pitifully few programs as reported by respondents. Only six people reported using the Brigance Inventory of Early Development, for example, and a total of three mentioned Haeussermann'. Developmental Potential of Preschool Children, the Learning Accomplishment Profile-Diagnostic Education, and Uzgiris and Hunt's Ordinal Scales of Infant Psychological/Development. Although normreferenced tests were considerably more popular, two of the most appropriate of these for young children--the Bayley Scales of Infant Development and the Merrill Palmer Scale of Montal lests--were used by fewer than 20 of respondents. Helpful scales of motor development, such as the Milani-Comparetti, were reported by only one respondent.

One reason for this may be the fact that most of these assessments are not available from major publishing houses. In addition, the assessments by Haeussermann and Uzgiris and Hunt may have discouraged teachers since they are not available in kit form. Another possible explanation is that many teachers were not aware of these unconventional assessments and need to update their training. Fifty-one percent did check that their training was only "somewhat adequite," and 27 indicated that they would like further training in is assent. From the results on assessment tools used, however, it would seem that a greater sumber would benefit from such training.



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A final issue of concern related to the educational programs provided to severely hardicapped preschoolers. As noted earlier in this section, there is some question about the number of severely handicapped preschoolers being served in North Dakota. Of equal importance is the nature of the education available to those severely handicapped children who are receiving services. The data on assessment and curricular materials is particularly weak in the area of the severely handicapped. The two most popular curricular kits in this study (the Peabody Language Development Kit and the PEEK) and most of the other curricular materials mentioned by respondents teach at a level much higher than the functioning level of most severely handicapped preschoolers. The Uniform Performance Assessment System (UPAS) developed by White, Edgar, and Haring at the University of Washington, and the Education of Multi-...andicapped Infants (EMI), developed at the demonstration project at the Unive sity of Virginia Medical Center, are two curricula which are appropriate for this population; they were reportedly used by two and one respondent respectively. While the availability of materials for severely handicapped preschoolers is limited, there are several (the UPAS and EMI, for example) which are informative, comprehensive, and inexpensive. The use of such materials would help preschool teachers select developmentally appropriate objectives and design effective educational programs for their severely handicopped students. Teachers would also benefit from inservice training in this particular area.

It is hoped that this study has shed some light on the needs and shortcomin_c, of services being provided young handicapped cnildren in the state of North Dakota. Since identification of a



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problem is a necessary prerequisite for change, the research results will hopefully serve as a catalyst for close examination and review of existing programs by the professionals responsible for them. This is particularly important at the present time because many of North Dakota's programs were set up on a temporary or experimental basis and are on the verge of comfortably settling into these "ad hoc" services without the in-depth analysis and discussion which should precede such a step. In addition, for those districts or agencies which are contemplating establishing preschool services, the information provided by this study will hopefully contribute to their efforts at providing the best possible services to young handicapped children.



APPENDIX A

Survey Instrument

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APPENDIA B

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Programs Serving Preschool Handas apped

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APPENDIX C

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GEOGRAPHIC DISTRIBUTION OF PROGRAMS SERVING PRESCHOOL HANDICAPPED CHILDREN 1979-80

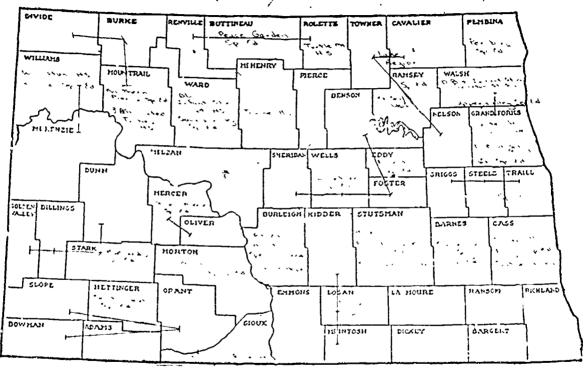




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Appendix C Geographic Distribution of Programs Serving Preschool Handicapped Children 1979-1980



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Allen, Kapfinen, H. M., Von a A. Da Schretelbusch, Bichard I. Farly intervision - A team approach. Baltimore: University Fark Press, 1978.

Anastasiow, Nicholas J. Fark, childhood education for the landicamped in the 1980's: Kelommondations, <u>Prophysical Children</u>, Nol. 47, No. 4, January 1981.

Anistasiow, Nicholas J. John Dewey ind current cognitive by-cholory of learning. In S. J. Meisels (ed.) Special education and development. Balgimore: University Park Press, 1979.

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- Anastasiow, Nichelas J. Strategies and models for early childhood intervention programs in integrated settings. M. curalnick (ed.) Farly intervention and the integration of handicapped ind nonhandicapped children. Baltimore: University Park Press, 1978.
- Biker, Bruce I. and Heifetz, Louis J. The Read project: Teaching manuals for parents of retarded children. In I. Tjosser (ed.) Intervention strategies for high risk infants and young children, Baltimore: University Park Press, 1976.
- Binet, Bernard A. A develops and approach for children with special needs. In S.J. Meisels (ed.) Special education and development. Baltissis: University Park Press, 1979.
- Bayley, Nancy. Bayley scales of infant development. New York: sychol great Corp., 969.
- Bri -cr, Dime. A rationale for the integration of handicapped and nonhandicapped preschool children. In M. (uralnick (ed.) <u>Larly intervention and the integrat. Of handicapped children.</u> Baltimore: University Park Press, 1478.
- Brieser, William A. and Bricker, Diane D. The infant, toldler and preschool research and intervention project. In L. 2008 (ed.) Intervention strategies for high risk induits on ung hildren, Paltimore: University Park Press, 1995.
- Bri zer, blune of carlon, laurel. An intervention approver a communicatively nanoncapped infinite and o unpolabiliter. New Directions for Exceptional Children complean pulse patterney for Children, No. 2, 1980.
- U.S. Ker, Mone and Carlson, Laurel. Is descince and complete intervention. In R. Schnefelbussen and S. Bricker (ed.). <u>Farl</u> <u>Arguater</u> <u>Arguitting</u> and <u>interpretion</u>. B lt. miler it. Park Press, 1981.
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- Hartup, Willard W. Peer interaction and the process of socialization. In M. Guralnick (ed.) <u>Early intervention and the</u> <u>integration of handicapped and nonhandicapped children</u>. BalLimore: University Park Press, 1978.
- Hayden, Alice H. and Haring, Norris G. Early intervention for high risk infants and young children: Programs for Down's Syndrome children. In T. Tjossem (ed.) Intervention strategies for <u>high risk infants and young children</u>. Baltimore: University Park Press, 1976.
- Haynes, Una B. The national collaborative infant project. In R. Tjossem (.d.) <u>Intervention strategies for high risk</u> <u>infants and young children</u>. Baltimore: University Park Press, 1976.
- Hein, George E. Evaluation in open education: Emergence of a qualitative methodology. In S. J. Meisels (ed.) <u>Special</u> <u>education and development</u>. Baltimore: University Park Press, 1979.
- Horton, Kathryn B. Early intervention for hearing impaired infants and young children. In. T. Tjossem (ed.) <u>Intervention strategies for high risk infants and young children</u>. Baltimore: University Park Press, 1976.
- Ispa, Jean and Metz, Robert. Integrating handicapped preschool children within a cognitively oriented program. In M. Guralnick (ed.) <u>Early intervention and the integration of handicapped and nonhandicapped hildren</u>. Baltimore: University Park Press, 1978.
- Johnson, David W. and Johnson, Roger T. Integrating handscapped students into the mainstream. <u>Exceptional Children</u>, Oct. 1980, 47, 2.
- Johnson, Nancy M., Jens, Kenneth G., Gailagher, Raymond J. and Anderson, Joan D. Cognition and affect in infancy: Implications for the handicapped. <u>New Directions for Exceptional Children--Young Exceptional Children</u>, 1980, No. 3.
- Kamii, Constance and DeVries, Rheta. Plaget for early education. In M. C. Day and R. K. Parker. <u>The preschool in action</u>, 2nd edition. Boston: Allyn and Bacon, 1977.
- Karnes, Merle B. and Zehrbach, R. Reid. Alternative models for delivering services to young hand capped children. In June B. Jordan, et al. (eds.) <u>Early childhood education</u> for exceptional children. Reston, VA.: Council for Exceptional Children, 1977.



- Kennedy, Patricia, Northcott, Winifred, McCauley, Robert and Williams, Susan Myklbye. Longitudinal sociometric and crosssectional data on mainstreaming hearing impaired children; Implications for preschool programming. <u>Volta Review</u>, February-March 1976.
- LeMay, D. W., Griffin, P. M. and Sanford, A. R. <u>Learning accomp</u> <u>lishment profile-diagnostic edition</u>. Winston-Salem, N.C.: Kaplan Press, 1975.
- Levitt, Edith and Cohen, Shirley. An analysis of selected parent intervention programs for handicapped and disadvantaged children. Journal of Special Education, 1975, Vol. 9, No. 4.
- Lillie, David L. and Trohanis, Pascal L. (eds.) <u>Teaching parents</u> to teach. New York: Walker and Co., 1976.
- Mahoney, Gerald and Weller, Emy Lu. An ecological approach to language intervention. <u>New Directions for Exceptional</u> Children, 1980, No. 2.
- Northcott, Winifred H. <u>Curriculum guide--Hearing imparied chil-</u> dren Birth to three years and their parents. Washington, D.C.: Alexander Graham Bell Association for the Deaf, 1972.
- Northcott, Winifred H. Integrating the preprimary hearing-impaired child. In M. Guralnick (ed.) <u>Early intervention and the</u> <u>integration of handicapped and norhandicapped children</u>. Baltimore: University Park Press, 1978.
- Osborn, Jean and Becker, Wesley. Direct instruction language. <u>New Directions for Exceptional Children-Language Intervention</u> with Children, 1980, No. 2.
- Peterson, Candida, Peterson, James, and Scriven, Georgia. Peer imitation by nonhandicapped and handicapped preschoolers. Exceptional Children, January 1977.
- Peterson, Nancy L. and Haralick, Joy Gold. Integration of handicapped and nonhandicapped preschoolers: An analysis of play behavior and social interaction. <u>Education and Training of</u> the Mentally Retarded, October 1977.
- Rogers-Warren, Ann and Wedel, Janet W. The ecology of preschool classrooms for the handicapped. <u>New Directions for Exceptional Children-Ecology of Exceptional Children</u>, 1980, No. 1.
- Schiefelbusch, Richard L. Synthesis of trends in language intervention. New Directions for Exceptional Children-Language Intervention with Children, 1980, No. 2.
- Schiefelbusch, Richard and Bricker, Diane D. (eds.) Early language: Acquisition and intervention. Baltimore: University Park Press, 1981.



97

- Schiefelbusch, Richard and Lloyd, Lyle L. Language perspectives: <u>Acquisition, retardation, and intervention</u>. Baltimore: University Park Press, 1974.
- Shearer, Marsha S. and Shearer, David E. Parent involvement. Ir June B. Jordan, et al. (eds.) Early childhood education fo. <u>exceptional children</u>. Reston, VA.: Council for Exceptional Children, 1977.
- Shearer, David E. and Shearer, Marsha S. The Portage project: A model for early childhood intervention. In T. Tjossem (ed.) <u>Intervention strategies for high risk infants and young</u> <u>children</u>. Baltimore: University Park Press, 1976.
- Simeonsson, Rune J., Kuntington, Gail S. and Parse, Susan A. Expanding the developmental assessment of young handicapped children. <u>New Directions for Exceptional Children--Young</u> <u>Exceptional Children</u>, 1980, No. 3.
- Snyder, Lee, Appoloni, Tony, and Cooke, Thomas. Integrated settings at the early childhood level: The role of nonretarded peers. <u>Exceptional Children</u>, February 1977.
- Tjossem, Theodore (ed.) <u>Intervention strategies for high risk</u> <u>infants and young children</u>. Baltimore: University Park Press, 1976.
- Turnbull, Ann P. and Blacher-Dixon, Jan. Preschool mainstreaming: Impact on parents. <u>New Directions for Exceptional Chaldren--Ecology of Exceptional Children</u>, 1980, No. 1.
- Turnbull, Ann and lurnbull, H. R. <u>Parents speak out</u>: <u>Views from</u> <u>the other side of the two-way mirror</u>. Columbus, Ohio: Charles E. Merrill, Publishing, 1978.
- Uzgiris, I. and Hunt, J. McV. Assessment in infancy: The ordinal scales of infant psychological development. Chicago: University of Illinois Press, 1975.
- Vincent, L. J., Salisbury, C., Water, G., Brown, P., Grunewald, L. J., and Powers, M. Program evaluation and curriculum development in early childhood/special education: Criteria of the next environment. In W. Sailor, B. Wilcox, and L. Brown (eds.) <u>Methods of instruction for severely handicapped students</u>. Baltimore: Paul H. Brookes Pub., 1980.
- Wiegerink, Ronald, Hocutt, Anne, Posante-Loro, Rebecca, and Bristol, Marie. Parent involvement in early education programs for handicapped children. <u>New Directions for Exceptional Children-Ecology of Exceptional Children</u>, 1980, No. 1.
- Wood, Mary M. (ed.) <u>Developmental therapy</u>. Baltimore: University Park Press, 1975.



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