THE RELATIONSHIP BETWEEN TELEVISION-VIEWING

BEHAVIOR AND SOCIAL DEVELOPMENT

IN EARLY CHILDHOOD

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Dedicated to Beth and Meg



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CHAPTER I

INTRODUCTION

The purpose of this study was to investigate the relationship of television-viewing behavior and social development of young children. The aspects of television-viewing behavior on which the study focused were the length of time spent in viewing, the types of programs viewed, the intensity of the child's viewing, the child's companions while viewing, and the parent's attitudes toward the child's viewing. The aspects of social development on which the study focused were the child's social conformity, the child's social value within his peer group, and the child's attention span during free play activity. All of these variables together with age and sex were analyzed in an attempt to gain an increased understanding of the role of television viewing in the social development of young children.

Significance of the Problem

Young children are watching many hours of television each day; this is reducing the number of hours available for interaction with people. Experienced teachers have reported increasing numbers of interpersonal conflicts throughout childhood and decreasing attention spans as the usage of television has increased.

Many research efforts concerned with the influence of television have been focused on antisocial behavior or aggression. Aggressive

behavior is conspicuous, but it is only one aspect of social behavior; and to gain a better understanding of the effect of television on social behavior, one must look at peer relations and play behavior.

Rightly or wrongly, negative changes in peer relations and play behavior have been attributed to increases in the time spent watching television.

Experienced teachers have reported marked changes in children's play behavior when television viewing has increased. They have noted a decrease in imaginative and creative play and an increase in aimless running around. Other changes noted in the quality of play have been low frustration tolerance, poor persistence, and confusion about reality and fantasy.

Problem

The years from three to five have been called the play age, and the child at this time is known to be highly impressionable. His imagination expands as his ability to communicate and to move about freely increases. At the same time, he develops a conscience and has his first encounters with feelings of guilt. The attitudes and values which begin to form during these years may be important to the child for the rest of his life. This impressionable age was the one chosen for study in this research. If television viewing influences the development of children, then evidence of this influence may be apparent during these early years. Additional effects may be apparent at a later time from latent effects. Longitudinal research has indicated long term relationships between viewing television violence and adult attitudes (Lefkowitz, Eron, Walder, Huesman, 1972).

Television has cut markedly into the play time of children; and for some children this may be a major loss inasmuch as play contributes to all areas of a child's development, e.g., social, emotional, physical, and intellectual. Children spend more time watching television than in any other activity except sleeping. It has been reported that households with preschool children have an average television-viewing time of from 18 hours (Witty, 1967) to 31 hours (Stevenson, 1972) per week. The ability to play seems to be affected in many children.

The importance of play in the development of children has been recognized for years; but today, frequently, the importance of play is acknowledged in lipservice only. For many children television viewing has become a substitute for play and has apparently been encouraged by those who would use television as a baby sitter. The loss of play, rather than television per se, may be the cause of the apparent negative effects that have been attributed to television.

Play serves the purposes for young children that work serves for adults. Play offers children safe methods of working out feelings, of trying roles, of coping with life's many defeats and frustrations, of trying new experiences, and of fostering feelings of self worth and security. In play the child may safely change from helpless puppy to ferocious tiger any time he wishes. The child is in control of his surroundings in this one situation. This opportunity allows the child to sort out the differences between reality and fantasy as he is ready to do so.

Some of the important types of play engaged in by young children are dramatic play, block and construction play, water play, graphic arts play, gross motor play, and rhythmic play. Each child progresses

through predictable social stages in these types of play. Children first play alone in solitary play. They next observe and play beside another child in parallel play. Two children may be playing with trucks side by side; yet there is no interaction between the children about what they are doing; this is parallel play. The third stage of play, associative play, involves several children playing together with little depth of interaction. Four children may play cowboys and Indians with a great deal of chasing and yelling; if one child drops out of the game or a fifth child drops into the game, the game can continue with no imbalance caused by the change in the players; this is associative play. The fourth level of play, cooperative play, involves important dependence and interaction between the players in the game. If one of two firemen in a dramatic play sequence quits playing the game, the squad is unable to function adequately; this is dramatic play.

Most children progress systematically from solitary play in infancy to an initial cooperative play stage during the fourth to fifth year of life. Along with the changes in the social content of play the attention spans of young children change. Attention spans seem to reflect the child's chronological and mental age and the type stimulation he is experiencing from the persons or toys in his surroundings.

The average attention spans for girls are consistently higher than the average attention spans for boys. The average attention spans for complex stimuli are greater than for simple stimuli. In general, older children have longer average attention spans than younger children.

Bott (1923) found the mean attention spans for three-year-old children were 4.7 minutes and for four-year-old children were 5.6

minutes. These children were playing in child choices of toys such as blocks, peg boards, dolls, puzzles, tricycles, and similar toys.

Van Alstyne (1932) in a study of 112 preschool children found the average attention spans of three-year-old children were 8.9 minutes and of four-year-old children were 12.3 minutes. These children were playing in free play group situations with blocks, a doll corner, clay, and graphic arts materials.

Jenkins, Schacter, and Bauer (1953) reported that three-year-old girls with simple stimuli had average attention spans of 12 minutes; three-year-old girls with complex stimuli had average attention spans of 14 minutes. Three-year-old boys with simple stimuli had average attention spans of five minutes; three-year-old boys with complex stimuli had average attention spans of eight minutes. Four-year-old girls with simple stimuli had average attention spans of nine minutes; four-year-old girls with complex stimuli had average attention spans of 15 minutes. Four-year-old boys with simple stimuli had average attention spans of eight minutes; four-year-old boys with complex stimuli had average attention spans of ten minutes. These children were playing with form board type play materials.

Specific Purposes

This study was designed to provide descriptive information about the characteristic behavior shown by young middle-class children as they viewed television and to investigate the relationship of their television-viewing behavior and their social development. The children studied were enrolled in the University of Arkansas Laboratory Nursery School at Fayetteville, Arkansas. The aspects of social

development investigated were the child's social freedom or rigid conformity, the child's reciprocal social relations with peers in a group, and the child's attention span in a free play group situation.

Descriptive Information

The descriptive information was concerned with the amount of television viewed, the intensity with which television was viewed, the specific television programs viewed, the companionship of the child during television-viewing time, and the parental attitudes toward television viewed by the child. This information was obtained by having the parent of each child participating in the study complete two one-week Television-Viewing Inventory forms which were developed for this study.

Hypotheses Investigated

The hypotheses in this study concern the relationships between television-viewing behavior and social development in early childhood as portrayed by 32 middle-class children enrolled in the University of Arkansas Laboratory Nursery School at Fayetteville, Arkansas. The following specific hypotheses are offered for investigation.

Hypotheses Related to Age

- 1. There is no relationship between age and viewing time.
- 2. There is no relationship between age and intensity of viewing.
- 3. There is no relationship between age and social conformity scores.
- 4. There is no relationship between age and social relations scores.
 - 5. There is no relationship between age and attention span.

Hypotheses Related to Sex

- 6. There is no relationship between sex and viewing time.
- 7. There is no relationship between sex and intensity of viewing.
- 8. There is no relationship between sex and social conformity scores.
- 9. There is no relationship between sex and social relations scores.
 - 10. There is no relationship between sex and attention span.

Hypotheses Related to Television Viewing

- 11. There is no relationship between the amount of televisionviewing time and social conformity scores.
- 12. There is no relationship between the intensity of television viewing and social conformity scores.
- 13. There is no relationship between the companionship while viewing television and social conformity scores.
- 14. There is no relationship between the amount of televisionviewing time and social relations scores.
- 15. There is no relationship between the intensity of television viewing and social relations scores.
- 16. There is no relationship between the companionship while viewing television and social relations scores.
- 17. There is no relationship between the amount of television-viewing time and attention span.
- 18. There is no relationship between the intensity of television viewing and attention span.
- 19. There is no relationship between the companionship while viewing television and attention span.

Hypotheses Related to Social Conformity and

Social Relations Scores

20. There is no relationship between social conformity scores and social relations scores.

CHAPTER II

REVIEW OF THE LITERATURE

Television viewing is a world-wide behavior. The number of television sets and the amount of time spent in viewing them seems to be increasing steadily. The current average weekly viewing time for preschool children is between 23 and 33 hours (Gadberry, 1974). Children who watch television spend less time playing; they are quieter; they move less; and they enjoy less parental interaction.

An Australian teacher after visiting and teaching in the United

States for one year wrote her predictions of the American child by the

time of the "spearpoint" of civilization.

Much of what they do learn and regularly, is from the many accessible screens before which they loll from the moment they wake. They talk in high piercing voices to compete with the TV volume, simultaneously, and with an air of playing a TV role, so that you can't distinguish a TV role from the living performance. Children engaged in watching the screen are as good as the characters portrayed on it, so that they often find themselves answering a person on screen instead of the off screen. The word "love" has been a dropout from the language light-years ago. They talk persistently and simultaneously, meaning none of what they say, but talk for the sake of talking. There's an air about it as though each were playing some well-learnt TV role. They gesture a lot and throw their arms and stride in pseudo passion (Ashton-Warner, 1972, 217-219).

The Television Industry

From Past to Present

Television has become a part of the American way of life. In 1971 892 active channels broadcast daily to over 60 million, or 96 percent of America's homes (Gerbner, 1972, 388). This entertainment medium has had a rapid growth rate. The first television patent was issued in Germany in 1884. In 1926 John L. Baird demonstrated a complete television set up in the United States. In 1927 American Telephone and Telegraph Company sponsored a telecast of President Herbert Hoover in Washington, D.C. shown in New York City. In 1939 the National Broadcasting Company began regularly scheduled telecasting. World War II interrupted the widescale development of television; however, by 1949 there were one million television sets in the United States. By 1951 the number had grown to 10 million. Today there are more television sets in the United States than any other electrical appliance. More homes have television than indoor plumbing (Liebert, Neale, and Davidson, 1973).

Today more families own two television sets, about 38 percent of the households, than owned one set in 1950. Approximately 38 percent of America's households own color television sets (Morrisett, 1973).

Current Television Usage

Television sets are being used at increasing rates. In 1950 a Connecticut school-wide study of viewing habits showed 79 percent of the households watched on a regular basis an average of 3.86 hours per day (Gould, 1950). A winter 1964 study showed total United States average viewing had increased to 6.07 hours per day. This average household was composed of preschoolers watching 18-20 hours per week, primary aged children watching 15-16 hours per week, high school students watching 12-14 hours per week, and adults watching 20 hours per week (Witty, 1967). A dynascope study of 95 homes in Stillwater,

Oklahoma; Tulsa, Oklahoma; and Wichita, Kansas, showed the household average viewing time was 31.8 hours per week. Families with preschool children averaged 37.12 hours per week, families with grade-school aged children averaged 33.86 hours per week, and families with teenaged children averaged 27.55 hours per week. For each of these family types a measurement was made of the percentage of time the set was turned on with no audience. This ranged from 24.84 percent for preschool to 18.00 percent for grade school to 11.39 percent for teenaged children (Newman, 1964).

In 1971 the <u>Broadcasting Yearbook</u> estimated television sets were turned on an average of 6.3 hours daily (Lyle, 1972). Among lower-lower social class preschool children the average viewing time was 3.8 hours per day weekdays and 6.4 hours per day weekends; among upper-middle social class preschool children the average viewing time was 2.3 hours per day weekdays and 3.3 hours per day weekends (Stevenson, 1972).

Children's Television

Children's television programs began during the 1950's (Melody, 1973). Three early children's programs were Captain Kangaroo, Ding Dong School, and The World of Disney. By 1954 live episodes were obsolete; producers used film segments. In 1958 Hanna and Barbera developed an animation technique and produced the first made-fortelevision children's series, Gerald McBoing-Boing (Melody, 1973). Currently children's television programs are of mainly three types: animated cartoons, adventure types featuring one or more live animals, and adventure stories geared to young audiences. The "children's

hour" has become Saturday morning and late weekday afternoons (Cantor, 1972).

The early Saturday cartoons were witty. The 1966-1967 television season featured cartoons showing "cartoon superheroes beating the brains out of cartoon supervillains" (Cantor, 1972, 266). The Eisenhower Commission's Investigations following the Kennedy Assassination caused a slight reduction in violence in cartoons; however, they are at this time yet considered to be the most violent subject matter on television. This violence includes accidents, assault and battery, arson, burglary, bembings, kidnapping, vandalism, and threats with deadly weapons, but no murder or rape. This violence is portrayed as humorous (Moore, 1967; Gurevitch, 1972).

Barcus (1971) videotaped and analyzed 19 hours of Saturday children's television. The study found 19 percent of the time involved was occupied by commercials; there were 406 commercials in 1125 minutes, an average of one commercial every 2.8 minutes. Sixty-two percent of the programs were animated film with 64 percent of the programs dealing with crime, supernatural or interpersonal rivalry. Seventy-one percent of the programs had at least one incident of human violence.

In comparing children's television in the United States with that in Great Britain, Sweden, and Israel, the United States television provided the largest amount of available material and the largest percentage of violence. The television production in the United States was a commercially sponsored, privately owned system. Each of the other three countries had publicly owned systems with greater governmental control (Gurevitch, 1972).

The programs for children in the United States are dependent primarily upon the network producer's support. The network producers choose the shows to be offered. Children's programs, unlike adult programs, are usually purchased as packages of 17 programs with no pilot films. Once a network buys a series there is almost no possibility that it will be cancelled before it has been shown and rerun several times. Producers seem to use very limited knowledge of children in choosing suitable programs for them. They believe a child's attention span is short; therefore, the programs need much movement and loud noise (Liebert, Neale, and Davidson, 1973).

The cost of producing a thirty-minute animated children's program is \$10,000 to \$11,000. The cost of producing a prime-time adult program is \$100,000 for thirty minutes. Advertisers pay 44 percent of the television production bill. Kellogg, Mattel, and General Mills provide 30 percent of the total revenue for children's shows (Melody, 1973). Advertisers see children as an integral part of their advertising campaign through the children's ability to influence their parents' buying. The advertiser often affects the program content by avoiding scenes that would suggest a possible criticism of his product. For example, shows sponsored by a cereal company would not allow family breakfast scenes to show bacon and eggs being eaten.

Children's daytime television until 1975 had twice as much commercial time per program as evening shows. At that time the amount of commercial time for children's programs was reduced; however, they still have more commercial time than adult prime time programs. Hosts and herees of children's shows were permitted to advertise products on their programs until 1975. In 1971 an organization of concerned

parents, Action for Children's Television (ACT), filed a petition with the Federal Communications Commission requesting that no commercials should be allowed on children's television, hosts of children's programs should be forbidden to use or sell products by brand name during their children's programs, and each station should be required to provide a minimum of 14 hours per week of children's programs with agespecific groupings (Melody, 1973). As a result of this petition the amount of advertising was reduced, hosts were forbidden to advertise their products, and family viewing hours were instigated.

Young children are unable to discriminate between programs and commercials. This results in a confused perception of products advertised. Children's thinking usually matures by sixth grade so that they become better able to differentiate (Ward, 1972).

Children's television programs portray and promote societal misconceptions. Half of all leading characters are white, American, young, unmarried males. About 20 percent of the leading characters are females, portrayed as sex symbols or helpers, except in space programs where they may play the role of villain. Minority members on television are uniformly well-mannered and homogeneous. The elderly are seldom seen on television. In situations where the characters are employed, they are usually upper-middle class, often professionals. Violence is presented as a quick, clean, effective way to solve conflicts (Cantor, 1972; Leifer, 1974).

Parents see television as educational and enlightening and as a habit forming source of nightmares. Parents see the major asset of television to be its ability to keep children quiet and the major defect to be its encouragement of passivity (Hess and Goldman, 1962).

When television is used as a stimulation source for toddlers learning to speak, their speech development is adversely affected in comparison to speech development based upon interaction with a human present (White, 1975).

Governance of the Television Industry

The chief organization for the television industry, with about 25 percent of the stations members, is the National Association of Broadcasters (NAB). The NAB lists the following suggestions in their code as the network's "Responsibilities Toward Children":

Such subjects as violence and sex shall be presented without undue emphasis and only as required by plot development or character delineation.

Crime should not be presented as attractive or as a solution to human problems, and the inevitable retribution should be made clear . . .

Exceptional care should be exercised with references to kidnapping or threats of kidnapping of children in order to avoid terrorizing them . . .

Material which is excessively violent or would create morbid suspense or other undesirable reactions in children should be avoided. . .

Particular restraint and care in crime or mystery episodes involving children or minors should be exercised (Gerbner, 1972, 397).

Columbia Broadcasting System (CBS) uses the NAB Code of Broadcasting. American Broadcasting Company (ABC) and National Broadcasting Company (NBC) use the NAB Code with individual additions to it. The NAB lacks power to enforce the Code. The Code of Broadcasting is frequently interpreted in varied ways by different producers.

The federal government has been interested in television for many years, but because of the constitutional amendments guaranteeing freedom of speech and freedom of the press and because of the advertiser's and network's extensive lobbying, few federal regulations have been

developed. The Federal Communications Commission grants and renews three-year television licenses to broadcasters to serve the "public interest, convenience, and necessity" (Gerbner, 1972, 370). In 1954 the Kefauver Senate Subcommittee on Juvenile Delinquency looked at violence in television content. They found the violence content was high, research on relationships of television violence to crime was sparse, and many cultural values were involved in the entire question (Lazarsfeld, 1955). In 1968 the Eisenhower Commission again surveyed television content and again found a high quantity of violence.

In 1969 as a result of an investigation by Senator Pastore's Commission the Surgeon General's Scientific Advisory Committee was formed to supervise the sponsorship of a one-million dollar three-year research program to investigate the relationships between violence and aggression. Twenty-three research projects were funded and carried out during 1970-1972. From these studies 50 published reports ensued (Atkins, 1972). The report indicated there is a preliminary, tentative indication of a causal relationship between viewing televised violence and aggressive behavior; the causal relation operates only on some children and in some environmental contexts. In spite of the evidence reported by the Surgeon General's Report, the television industry has maintained its position that violence is not harmful (Leifer, 1974; Cater, 1975).

Social Development and Television Usage

Violence - Aggression

By age 14 a child has seen more than 11,000 murders on television.

According to 80 television critics, the most violent shows on television

in 1974 were the following: Hawaii Five-O, Mannix, Cannon, Kojak, Police Weman, Police Stery, Streets of San Francisco, The Rookies, Get Christie Love!, and Kung Fu. According to a Nielson report the most popular shows for the same period were the following: All in the Family, Sanford and Son, Chico and the Man, Rhoda, The Waltons, M*A*S*H, Good Times, Maude, The Wonderful World of Disney, and Little House on the Prairie (TV Violence; The Worst Offenders, 1975). The most popular family programs were not the most violent programs on the air. The most popular programs for children were cartoons. These contain the highest incidence of violent episodes per hour of any type program on television.

Research offers three different hypotheses concerning the effect of televised violence on children. One is that television violence serves as a catharsis to drain off aggressive impulses harmlessly. A second is that televised violence viewed repeatedly dulls the viewer's sensitivity to cruelty and violence and builds the feeling that violent behavior is appropriate under some circumstances. A third theory is that televised violence provides a model for increasingly aggressive behavior.

According to theorists believing the catharsis theory, television viewing of violence may substitute for overt behavior or it may frighten the viewer of violence and its possible consequences. In either case the viewer's overt aggressive behavior will be reduced. Studies by Feshbach and Singer (1971) with 400 adolescent boys indicated that among boys with social-emotional adjustment difficulties, boys in the group watching non aggressive television presented more aggressive behavior than boys watching aggressive programs. However, among boys

with normal social-emotional adjustment, the boys in the group watching non aggressive television presented significantly less aggressive behavior than the boys who watched aggressive television.

Wells (1972) replicated the study and found that boys who watched television from which all violence had been removed were more aggressive verbally and boys who viewed more violent television programs were significantly more aggressive physically provided the boys were above average in aggression before viewing the programs. These studies do not support the catharsis theory.

Between 1969 and 1972 there was research based on the second theory. McIntyre and Teevan (1972) in a study of 2300 junior and senior high school students found a significant relationship between the subject's choice of violent programs and their approval of violence and their belief that crime is very widespread. Dominick and Greenberg (1972) compared the amount of exposure to televised violence with the child's approval of violence and willingness to use it himself. They found in a study of 434 fourth, fifth, and sixth grade Michigan Public school boys that greater exposure to violence was positively related to greater approval of violence. In boys from disadvantaged environments the difference was greater than in boys from average environments. Research seems to support this dulling of sensitivity theory.

Greenberg and Gordon (1972) found that the amount of violence perceived in a violent television program depended upon age, sex, and background of the subject. Men perceived less violence in a set of violent programs than did women; older boys perceived less violence than did younger boys; and boys from a hostile, disadvantaged environment saw violent programs as less violent than did those from a more

average environment. The subjects who saw programs as less violent were likely to engage in more aggressive acts themselves.

The third theory has received the most research emphasis. Several studies have shown that children's aggressive behavior increased following exposure to filmed or televised aggression (Bandura, Ross, and Ress, 1963; Hicks, 1965; Madsen, 1968). In all of these studies the observation of the children was made while the children played alone following the exposure to aggression. Sieget (1956) observed children playing in pairs following exposure to an aggressive cartoon, but did not differentiate between interpersonal and non-interpersonal aggressive behavior. Hanratty, Liebert, Morris, and Fernandez (1969) exposed children to aggressive behavior toward an inflated doll and observed greatly increased aggressive behavior toward dolls with some increased aggression toward humans. Steuer, Applefield, and Smith (1971) observed 10 preschool children in a group setting to determine the amount of aggression toward toys and other children in relation to the parent-reported amount of television viewing by the children in their homes. The children who viewed more aggressive television emerged with statistically more aggressive behavior.

Friedrich and Stein (1973) reported a conflicting report of no relationship between amount of parent-reported home television viewing and amount of nursery school aggression. Following exposure to regular videotapes of aggressive programs during the nursery school program, the levels of aggressive play in children rated aggressive prior to the viewing increased. Children rated non-aggressive in play prior to viewing aggressive videotapes during nursery school showed little change in bahavior.

Martin, Gelfand, and Hartmann (1971) exposed children to an aggressive model and then allowed the children to play in one of three situations: in the presence of an adult, in the presence of peers, and alone. The presence of an adult reduced the amount of aggression displayed and the presence of peers increased the amount of aggression displayed.

Liebert and Baron (1972) studied the behavior of 136 children, aged five to nine, following exposure to either a neutral or violent videotape. The children were given an opportunity to push one of two buttons. They were told that one button would result in help to another child and the other button would result in hurt to another child. The children who watched an aggressive program tended to show a larger number of hurt button responses than the children who watched the non-aggressive program. The effect was greatest for the younger boys.

Collins, Berndt, and Hess (1974) found that younger children seemed to remember aggression alone or aggression with consequences after viewing televised violence while older children recalled motives as well as acts and consequences. Osborn and Endsley (1971) found young subjects responded most emotionally, as indicated by palmar sweating, to televised violence involving human subjects. They also remembered details of televised violence involving human subjects at a significantly higher rate two weeks later than televised violence involving non-human subjects. Katzman (1972) found that color television resulted in better recall rate for peripheral visual material shown; color did not improve the recall of the central material shown.

Lefkowitz, Eron, Walder, and Huesmann (1972), through a cross-lagged panel technique, determined the violence watched-aggression ratios for 875 third-grade children. Ten years later they assessed the violence-watched-aggression ratio for 460 of the same children. They found a significant relationship between television violence watched in the third grade and aggressive behavior at age 19. There was no relationship between aggressive behavior in the third grade and amount of television violence watched at age 19. The research seems to support the television-violence-supports-aggressive-behavior theory.

Television and Cognitive Behavior

In 1968 the Children's Television Workshop was established with the backing of the Carnegie Corporation, the Ford Foundation, the U.S. Office of Education, the U.S. Office of Economic Opportunity, and the National Institute of Child Health and Human Development. Its goal was to develop and telecast a daily children's program that would entertain and educate (Liebert, Neale, Davidson, 1973). It was hoped the resulting program, Sesame Street, would serve as a home intervention program for disadvantaged children. The program had four specific goals: teach symbolic representation, including letters, numerals, and geometric forms; teach cognitive processes, including perceptual discrimination, relationships, classification, and ordering; teach process of reasoning and problem solving; and teach concepts about the child and his world, including the self, the social units, social interaction principles, and the environment. The program used much humor to reach not only the young children but also to attract their parents and older siblings (Lesser, 1972).

Bailyn (1959) found that there was a cluster of traits that correlated highly with usage of pictorial media, including television, movies, and comic books. The typical high pictorial media user was a blue-collar, low-ability, Catholic boy. Girls who were school underachievers ranked higher in the use of pictorial media than girls who were over-achievers. A combination of having many personal problems and being highly rated on rebellious independence was related to increased use of pictorial media. Boys with personal rebellion problems were more likely to prefer aggressive hero type pictorial media.

A follow-up study of the effects of Sesame Street found that it had reached the middle class children more often than the disadvantaged and had widened the educational gap between lower and middle class children (Annis, 1974; Minton, 1975). The major difference found in cognitive learning was in alphabet skills; Sesame Street did not appear to improve total readiness for kindergarten.

Ratliff and Ratliff (1972) studied the aggressive aspects of Sesame Street. They found that the cartoons used to teach the alphabet and numbers used aggression and fear inducing techniques. The daily appearance of monsters presented a model of cookie stealing, destroying props, and being rewarded. They found that persons who had received insufficient rewards and were lacking in self esteem were most likely to imitate a model. Pwawat (1974) in a study in Stillwater, Oklahoma, found that preschool children showed more overt and covert behavior while watching The Pink Panther than while watching Sesame Street.

Television and Social Learning

Paulson (1974) found that Sesame Street during its first two years concentrated on cognitive skills, but during its third season the program treated the social goal of cooperation. The producers developed the behavioral objective for the year of helping "the child recognize that in certain situations it is beneficial for two or more individuals to work together toward a common goal, such as in the division of labor, in combining skills, and in reciprocity" (Paulsen, 1974, 230). In a study of 188 children tested in situations similar to those on the program, the children who had watched the program learned to cooperate better than the children who had not watched the program.

Stein, Friedrich, and Vondracek (1972) exposed 97 preschool children to a televised program of one of three types, an aggressive program such as Batman, or Superman, a prosocial program Mister Roger's Neighborhood, or a neutral children's film about a dairy farm. Observations were made of the children in a nursery school setting before the viewing, during the viewing, and after the viewing. The after viewing data showed that the children who had been exposed to the prosocial film showed higher levels of rule obedience, tolerance and delay, and persistence than the children who had been exposed to the aggressive film. Children who had been exposed to the neutral film ranked midway between the prosocial and aggressive film groups in the amount of prosocial behavior observed after seeing the film. The children from the lowest socio-economic class made the greatest gains in prosocial behavior improvements. Children who were initially above average in aggressive behavior showed significantly more aggressive

behavior after being exposed to the aggressive film. Children who were initially below average in aggression showed no difference in performance when exposed to the three different types of television programs. Friederich and Stein (1975) found that prosocial learning can be generalized. Systematic training through prosocial television programs seemed to enhance verbal helping behavior especially for girls and motor helping behavior especially for boys.

A study by Gerbner and Gross (1976) of adults found that subjects under 30 years of age indicated they were more influenced by television than subjects over 30 years of age. The under-thirty adults constituted the first generation who had known television all their lives.

Two major theorists whose explanations of how people learn differ are Albert Bandura and Jacob L. Gewirtz. Bandura believes observors acquire symbolic representations of the observed event rather than specific stimulus-response associations. He believes no reinforcement is necessary for this type learning. Gewirtz believes humans learn to learn by imitation or observation based primarily upon their conditioning history (Baran and Meyer, 1974). White (1972, 252) defined identification as "a particular form of imitation in which copying a model, generalized beyond specific acts, springs from wanting to be and trying to be like the model with respect to some broader quality." Television offers the young child many attractive, successful models. In imitating the behavior of those models the child imitates the behavior, motives, and values of the model as he perceives them. If the child identifies with a model, he will be more likely to learn the skills demonstrated by the model (Baran and Meyer, 1974). Baran (1974) found that among young school children the low self-esteem children

displayed more prosocial modeling than did the high self-esteem children. High self-esteem boys tended to model aggressive behavior they saw on television significantly more often than did girls or low self-esteem boys.

Sims (1963) in a study comparing social conformity and social acceptance in 14 nursery school children found the children who were moderately free in social conformity, neither rigidly conforming nor non-conforming to other children, were the children who were most valued socially by the group. The non-conforming children seemed to be the isolates in the group who were voluntarily so; they seemed to be happy and creative. The rigidly conforming were involuntary isolates who were dissatisfied with this status and tried aggressively to be accepted by the group.

Schramm (1961) found that television functioned as entertainment, as escape, as a source of information, and as a device for social utility. Many children enjoyed the fantasy aspects of television.

These may serve as opportunities to try varied actions without risk, as an escape from life's problems, and as wish fulfillment. Children sometimes used vicarious television experiences as a second-best substitute for real experiences; these children were likely to do much identifying behavior with television models. Insecure children who had difficulty making friends were likely to be heavy television viewers. These children felt rejected by their peers, expressed many fears and anxieties, and frequently lived in middle class families which lacked warmth. The televised situation most frightening to a young child seemed to be that which was lacking in his life. For normal children this was violence; for disturbed children this was often the scenes of warm family relationships.

Stevenson (1972) found brighter children tended to be heavier viewers than duller children, boys tended to watch more than girls. Children from more punitive homes watched more television than children from more permissive homes. Among the child-rearing practices associated with high television viewing were "punishment for aggression toward parents, permissiveness of sex behavior in the child, mother's reaction to dependent behavior in the child, demands for obedience and quiet, neatness, good table manners, going to bed on time, extent of physical punishment, and emotional relationship of mother toward the child deficient" (Stevenson, 1972, 352).

Maccoby (1954) in interviews with 379 mothers of five and sixyear-old children found in the upper-middle class that children who
were subjected to many frustrations and not treated warmly in their
home life watched significantly more television than children with a
more satisfying home life. In the upper-lower class there was no
significant difference. She suggested that because the lower class
child's parents watched more television, that child may be drawn to
it more even in the absence of frustration.

Riley and Riley (1954) found in a study of 400 children that violent television programs were more popular with children who had few friends. They suggested that these programs formed a fantasy world of escape from the problems of the real world.

Cohen (1974) noted that preschool children were highly egocentric and perception bound. They did not understand part-to-whole relationships. Television provided a two-dimensional learning experience although evidence points to the need for concrete experiences for children to learn. In the past children have gained these concrete

experiences through play behavior. Television has cut markedly into the play time of children. For some children this may be a major loss. Cohen reported one five-year-old boy who stated, "I like to turn things on and watch it; I don't want to make anything."

CHAPTER III

METHOD AND PROCEDURE

The present research was a study of the relationship between television-viewing behavior and social development in early childhood. The television-viewing behavior of each child was assessed by means of two one-week Television-Viewing Inventories which provided the parent with a check-list on which to record (1) each program the child watched, (2) the intensity with which he watched, (3) whether he watched with someone or not, and (4) the parent's approval or disapproval of the program.

The aspects of social development on which the study focused were (1) the child's social conformity, (2) the child's reciprocal social relations with his peers, and (3) the child's behavior during free play. Instruments were available for the measurement of social conformity and social relations. Where play behavior was concerned, the child's ability to attend, i.e., his attention span, was measured by time-sampling observations while he was engaged in free play.

In this chapter the children who participated in the study are described; the instruments for measuring television viewing behavior, social conformity, and social relations are presented; a pilot study is described; the sequence of activities is presented; and techniques are presented for the analysis of the data.

Subjects

The subjects who participated in this study were 34 middle-class preschool children, 16 boys and 18 girls. The ages of the children ranged from three years no months to four years eight months. The children were in attendance at the University of Arkansas Laboratory Nursery School, Fayetteville, Arkansas. The distribution of subjects by age and sex is presented in Table I. Descriptive data and test scores for individual children are presented in Appendix A, Tables XV, XVI, and XVII.

TABLE I

DISTRIBUTION OF SUBJECTS BY AGE AND SEX
(N = 34)

Age Group	Boys Girls		Total	
Three-Year-Old Children (3:0 - 3:11)	8	9	17	
Four-Year-Old Children (4:0 - 4:8)	8	9	17	
Total (3:0 - 4:8)	16	18	34	

Research Instruments

Television-Viewing Inventory

The Television-Viewing Inventory, designed for this study, provided a daily check-list of all programs available in the

Fayetteville, Arkansas viewing area from 7:00 a.m. to 11:00 p.m. for the two one-week periods included in the study. Each program was identified on the Television-Viewing Inventory by a five-digit code number designating the week of the study, the day of the week, and the specific program. The time and television channel where each program was presented was provided. Each program was also provided with a type number, used later in analyzing the patterns in viewing behavior. A complete description of the Television-Viewing Inventory is presented in Appendix B.

The parent of each child in the study was asked to record every program his child watched during the Television-Viewing Inventory periods. The parent was also asked to record certain aspects of the child's viewing behavior: (1) whether he watched alone or with someone; (2) the intensity with which he watched---constant, intermittent, or little; and (3) the parent's attitude toward the specific program he watched---approval, neutral, or disapproval.

Instructions to parents and a sample page from the Television-Viewing Inventory are presented in Appendix B. A complete listing of the programs appearing on the Television-Viewing Inventories for each of the two weeks during which they were recorded, the length of each program, the type of each program, and the number of children watching each program are presented in Appendix F.

Starkweather Social Conformity Test

The Starkweather Social Conformity Test is a research instrument designed to measure conforming and nonconforming behavior by providing the young child with opportunities to make choices in a situation in

which he can follow a model or respond freely according to his own preferences. This test discriminates between the children who are compulsive conformists or nonconformists and children who are free to use either conforming or nonconforming behavior. A detailed description of the Starkweather Social Conformity Test, its administration and scoring, is presented in Appendix C.

Starkweather Social Relations Test

The Starkweather Social Relations Test was designed to measure a young child's social value within his own peer group. It is more than a test of popularity. It combines a picture interview technique with gift-giving, and each child's value within his group is measured in terms of the extent to which his gift-giving is reciprocated by the children whom he chooses. The assumption underlying the choice of gift-giving as a technique for measuring social relations was that an individual wants to benefit someone he likes. A detailed description of the Starkweather Social Relations Test, its administration and scoring is presented in Appendix D.

Procedure

Preliminary Pilot Study

A preliminary study of 30 middle-class nursery school children, three and four years old, was conducted in Fayetteville, Arkansas.

The purpose was to determine the types of viewing behavior which should be included in the development of a Television-Viewing Inventory, and the range of responses that might be expected in a study of young

children. The mothers were given a list of all regular television programs which could be viewed locally from 7:00 through 10:30 p.m. Each was asked to check whether her child watched the programs frequently, sometimes, or never. Additional questions related to the number of hours per week that the child watched television, whether the child watched television alone or with someone, and the naming of programs approved and disapproved by the parent.

The television-viewing behavior of these 30 children ranged from one extreme to another. Three of the children watched television less than five hours per week; and one child, in whose home there were four television sets, watched more than 40 hours per week. In the mornings, 28 of the 30 children were watching television by 8:00 a.m.; and in the evenings, the majority of the children stopped watching after the programs at 8:00 or 9:00 p.m. However, for six children bedtime followed the 7:00 p.m. program; and at the other extreme, three children reportedly watched programs at 10:30 p.m. Most of the children did their television watching with someone. Three children usually watched alone; but of the others, half usually watched with a sibling and half usually watched with a parent. The programs watched most frequently by the majority of the children were World of Disney, Sesame Street, Gilligan's Island, Captain Kangaroo, The Waltons, and Fat Albert and the Cosby Kids.

The preliminary study provided information for the development of the Television-Viewing Inventory, which was used in the present research.

A copy of the final Television-Viewing Inventory, as checked by one mother, is presented in Appendix B.

Sequence of Activities

A letter explaining the research project and containing a form for parental consent for their children to participate in the research was provided for the parents during the first week in September, 1976. A copy of the letter is presented in Appendix G. During the week of September 17-23, 1976, the first Television-Viewing Inventory was completed. This date was chosen so that the picture obtained of the children's television-viewing behavior could be as accurate as possible. The new fall programs, which might be temporarily attractive as new programs, did not start until after this date. Also, the September date was prior to the intensive political campaigning that would occur during the weeks before the November elections.

The Television-Viewing Inventory was given to the mothers of 34 of the 36 children enrolled in the nursery school. An adult in the family was asked to keep the record of all programs viewed by each child. Two of the families enrolled in the nursery school were not used in the study because they were non-English speaking international student families.

During September special test materials were prepared. For the Starkweather Social Conformity Test, the color preferences of each child were ascertained, and a small booklet of colored pages was individually prepared for each child. Complete details concerning the description, administration, and scoring of the Starkweather Social Conformity Test may be found in Appendix C. For the Starkweather Social Relations Test group pictures were taken of the children, and small, inexpensive toys were procured for use as gifts. Complete

details concerning the description, administration, and scoring of the Starkweather Social Relations Test may be found in Appendix D.

Actual testing of the children was initiated in October. It was continued until completed in November. During September observations of the children's behavior in free play were initiated. There were three five-minute observations made by the principal investigator of each child. The focus was on the child's ability to attend (his attention span), which was measured in terms of the frequency with which he shifted from one play activity to another. The three observations of each child were made at different hours of the day, and there was an interval of at least one week between observations. An observation record, as completed for one child, is presented in Appendix E.

During the week of Nevember 12-18, 1976, the second Television-Viewing Inventory was completed by the parents. This recording period reflected the behavior of the children during cold, snowy weather. The results of the two Television-Viewing Inventories for each child were totaled for the data to be used in the analysis.

Analysis of Data

The variables of the child's age, sex, length of time spent in viewing television, types of programs viewed, intensity of viewing, parental attitudes toward viewing, child's social value within his peer group, the child's social conformity, and the child's attention span were analyzed using the Mann-Whitney U test, Wilcoxon matched pairs signed ranks, and Spearman rank correlations. The data were analyzed for differences and interrelationships among all variables. The .05 level was accepted as the level of significance.

CHAPTER IV

RESULTS

The purpose of this study was to investigate the relationship of television-viewing behavior and social development of young children. The television-viewing behavior of each child was assessed by means of two one-week Television-Viewing Inventories which provided the parent with a check-list on which to record (1) each program the child watched, (2) the intensity with which the child watched each program, (3) the child's companion while he watched each program, and (4) the parent's attitude toward each program the child watched.

The aspects of social development on which the study focused were (1) the child's social comformity, (2) the child's reciprocal social relations with his peers, and (3) the child's attention span during free play. A test of peer social conformity and a test of reciprocal social relations were administered to each of the 34 children in the study. Three five-minute time samples of activity shifts while the child was engaged in free play provided the data for attention span. Descriptive data and individual test scores are presented in Appendix A, Tables XV, XVI, and XVII.

The data provide 23 scores for each child. Test scores for social conformity, social relations, attention span, total hours of television-viewing time, and hours of television-viewing time according to intensity of viewing, i.e., constant, intermittent, and little, are

presented in Table XV. The hours of television viewing of individual children for each of the 13 program types are presented in Table XVI. The percentages of time individual children spent watching television alone, with an adult, or with another child, are presented in Table XVII.

The data were analyzed for age and sex differences in social conformity, in social relations, in attention span, and in television viewing behavior using the Mann-Whitney U test. The data were analyzed for relationships between television-viewing behavior and social conformity, social relations, and attention span using Spearman rank correlations. The data were analyzed for relationships between social conformity and social relations using Spearman rank correlations.

Descriptive Data

Amount and Intensity of Television Viewing

Thirty-four children participated in the study. Three of these children did not have television sets in their homes. One of the three children without a television set in his home watched regularly at the home of his babysitter. Therefore, 32 of the 34 children in the study watched television regularly.

The first Television-Viewing Inventory was completed during the week of September 17-23, 1976, a warm early autumn period. The second Television-Viewing Inventory was completed during the week of November 12-18, 1976, a cold snowy late autumn period. The complete listing of programs available and the number of children watching each program is presented in Appendix F, Table XVIII.

For the two Television-Viewing Inventory weeks the 32 children who viewed television viewed a total of 1224 hours. They watched 533 hours during the first, warm weather week and 691 hours during the second, cold weather week. Analysis of the data by the Wilcoxon matched pairs signed ranks test indicated the amount of television viewed during the second week was significantly higher than that viewed during the first week (z = -3.01; p = .0013). The median amount of viewing was 14.5 hours per child for the first week and 19.5 hours per child for the second week. The actual amounts of viewing ranged from 5.5 hours to 38.5 hours per child for the first week and 9.5 to 49.5 hours per child for the second week. The median for the total of two weeks' viewing time was 34.5 hours per child; the actual amounts of viewing time for the total two weeks' period ranged from 16.5 to 80.5 hours per child.

The degree of intensity of viewing most often indicated was constant viewing with a median of 18 hours per child during the two weeks. Intermittent viewing occurred a median of 10.5 hours, and little viewing occurred a median of only six hours during the two weeks. The medians and ranges of amount and intensity of television viewing are presented in Table II.

TABLE II

AMOUNT AND INTENSITY OF TELEVISION VIEWING
(N = 32)

	Hours of Viewing		
	Median	Range	
Amount of Viewing		•	
First Week	14.5	05.5 - 38.5	
Second Week	19.5	09.5 - 49.5	
Total	34.5	16.5 - 80.5	
Intensity of Viewing*			
Constant	18.0	04.0 - 44.0	
Intermittent	10.5	02.0 - 38.0	
Little	06.0	00.5 - 24.5	

^{*}for two-weeks' period

Television Programs

Each television program was classified by the investigator as one of 13 types. The types of programs watched, the number of children watching each type, and the median and range for the hours of each type watched are presented in Table III.

The types watched by the largest number of children were situation comedies, cartoons, children's educational programs, adult variety programs, and movies. The types of programs watched by the smallest number of children were religious programs, sports, serials (soap operas), and game shows.

TABLE III

TYPES OF PROGRAMS WATCHED*

		Number of Children	Hour	s Watched
Туре	of Program	Watching	Median	Range
13:	Children's Variety	22	01.5	00.5 - 06.5
12:	Chn's Educational	30	08.5	01.0 - 17.0
11:	Religious	05	02.0	00.5 - 03.0
10:	Adult Variety	29	02.0	01.0 - 07.5
9:	Sports	06	02.5	02.0 - 09.0
8:	Situation	31	08.0	01.0 - 19.0
7:	Serial	08	03.0	00.5 - 06.5
6:	Mystery	19	02.0	00.5 - 10.0
51	Movie	26	06.0	02.0 - 13.5
4:	Adult Informative	16	02.5	00.5 - 15.0
3:	Game Show	13	02.0	00.5 - 09.0
2:	Cartoon	31	05.5	01.5 - 16.0
1:	Adventure	20	01.5	01.0 - 04.0

*Data for the first and second weeks are combined in this table.

The most popular single television program watched was The World of Disney during the second Television-Viewing Inventory week. Nine-teen children watched this one program which was "The Apple Dumpling Gang," a Disney movie.

The most popular television series was Sesame Street. Sesame

Street was shown 26 times during the two Television-Viewing Inventory

weeks. Thirty-two children viewed it a total of 161 times during the

two weeks. Two other programs that were viewed by large numbers of children during the two recorded periods were Uncle Zeb's Cartoon Camp which was presented 10 different times and Gilligan's Island which was presented 20 different times. Uncle Zeb's Cartoon Camp was viewed 115 times and Gilligan's Island was viewed 80 times.

The 12 most popular programs, the number of times they were shown during the two Television-Viewing Inventory weeks, the largest number of children viewing the program at any one showing, and the total number of children viewing the program during all possible showings throughout the two weeks are presented in Table IV.

TABLE IV

MOST POPULAR TELEVISION PROGRAMS

_	Number of Showings During Two Weeks	Largest Number of Children Viewing at One Showing	Total Number of Children Viewing During All Showings
World of Disney	2	19	26
Pink Panther	2	16	22
Sesame Street	26	15	161
Chitty, Chitty Bang (movie)	Bang 1	15	15
Donny and Marie	1	14	14
Six Million Dol Man	1	14	14
Captain Kangaro		14	69
Uncle Zeb's Car Camp	toon 10	13	115
Scooby Doo	2	12	17
Happy Days	12	11	47
Gilligan's Isla	md 20	9	80
Electric Compan	y 26	8	57

Companionship During Television Viewing

The Television-Viewing Inventory provided columns for parents to check if the child watched alone, with a sibling, with a parent, with another child, or with another adult. For analysis the data were grouped into three categories: alone, with a child, and with an adult. In cases where the child watched with a child and with an adult, the data were classified in the adult category.

The most frequent companionship during television viewing was with an adult. Thirty-two children watched some of their programs with an adult; for these children an average of 45 percent of their viewing time was spent with an adult. Thirty-one children watched some of their programs with a child; for these children an average of 35 percent of their viewing time was spent with another child. Three of the children always watched with a companion. Twenty-nine of the children watched some of their programs alone; for these children an average of 14 percent of their viewing time was spent alone. Data concerning companionship during television viewing are presented in Table V.

TABLE V

COMPANIONSHIP DURING TELEVISION VIEWING

		Percentage of Time			
Companionship	N	Median	Range		
Alone	29	14	02 - 52		
With Child	31	35	02 - 79		
With Adult	32	45	10 - 98		

Parental Attitudes Toward Television Viewing

There were 1613 programs viewed at some time during the two weeks by the 32 television-viewing children. The majority of these programs were approved by the parents, but for 29 of the programs some parents indicated disapproval. Fourteen parents disapproved at least one program of those viewed by their children. Of these 14, three parents disapproved four programs each, and six parents disapproved two programs each. There were 18 different programs disapproved. A list of the programs disapproved and the number of parents disapproving each program are presented in Table VI.

TABLE VI

NUMBER OF PARENTS DISAPPROVING SPECIFIC TELEVISION PROGRAMS

Program	Parents Disapprovin
Cartoon Circus	2
Gunsmoke	2
Krofft Supershow	2
"Sybil" (movie)	2
Adam-12	1
"After the Fox" (movie)	1
Baa, Baa Black Sheep	1
Brady Bunch	1
Happy Days	1
Hawaii Five-O	1
Het Seat	1
Laverne and Shirley	1
"Macon County Line" (movie)	1
Mary Hartman, Mary Hartman	1
"Mayday at 40,000 Feet" (movie)	1
Pink Panther	1
Sylvester and Tweety	1
Today	1

Age and Sex Differences

Social Conformity

The Starkweather Social Conformity Test indicates whether a child has responded freely or has been influenced by the opportunity to conform to his peers. The possible range of scores is from 0 (complete freedom) to 20 (complete conformity). Generally, children who score from 0 to 10 are considered to be socially free, and children who score from 10 to 20 are considered to be socially conforming. In this present study the actual range of scores was from 0 to 14.

A description of social conformity scores by age and sex is presented in Table VII. Analysis of data by the Mann-Whitney U test indicated four-year-old children were more conforming than were three-year-old children ($\underline{U} = 70.51$; $\underline{p} < .02$). No significant differences in social conformity scores were found.

TABLE VII

MANN-WHITNEY U TEST ANALYSIS OF SOCIAL CONFORMITY

SCORES BY AGE AND SEX

(N = 34)

	Medi an	Range	<u>u</u>	P
Three-Year-Old Children	02	00 - 06	70.51	< .02
Four-Year-Old Children	04	00 - 14	·	
Boys	04	00 - 12	159.0	n.s.
Girls	03	00 - 14		

Social Relations

The Starkweather Social Relations Test indicates a child's social value within his peer group. The possible range of scores is from 00 (social isolate) to 4.0. The highest score received in the use of the test with several hundred children has been 1.89. Any child receiving a score of more than 1.00 is considered to be well accepted. Children with scores of less than .30 tend toward being isolates. The actual range of scores in this study was 00 to 1.58.

The description of social relations scores by age and sex is presented in Table VIII. Analysis of the data by the Mann-Whitney U test indicated there were no significant differences. There was a slight tendency for four-year-old children to have higher social relations scores than three-year-old children ($\underline{U} = 95$; $\underline{p} < .10$); there was a tendency for girls to have higher social relations scores than boys ($\underline{U} = 93$; $\underline{p} < .10$).

MANN-WHITNEY U TEST ANALYSIS OF SOCIAL RELATIONS
SCORES BY AGE AND SEX
(N = 34)

	Median	Range	<u>u</u>	P
Three-Year-Old Children	. 55	.12 - 1.38	95	<.10
Four-Year-Old Children	.75	00 - 1.58		
Boys	.53	0092	93	<.10
Girls	.71	.12 - 1.58		•

Attention Span

Attention span score indicates the total number of shifts in activity for a child during three five-minute intervals of free play.

A large score indicates a short attention span and a small score indicates a long attention span. The range of scores in the present study was 03 to 18.

A description of attention span scores by age and sex is presented in Table IX. Mann-Whitney U Test analyses indicated no significant age or sex differences in attention span scores.

TABLE IX

MANN-WHITNEY U TEST ANALYSIS OF ATTENTION SPAN

SCORES BY AGE AND SEX*

(N = 34)

	Median Range		<u>u</u>	P
Three-Year-Old Children	04.0	03 - 11	107	n.s.
Four-Year-Old Children	05.0	04 - 18		,
Beys	05.5	03 - 18	108	n.s.
Girls	05.0	03 - 07		

^{*}Attention span scores indicate the frequency of shifts in activities during three five-minute intervals.

Viewing Time

The viewing time score indicates the number of hours a child viewed television during the two Television-Viewing Inventory weeks. The range of scores in the present study was from 00 to 80.5 hours.

A description of television-viewing time by age and sex is presented in Table X. Mann-Whitney U test analysis indicated no significant age or sex differences in television-viewing time.

TABLE X

MANN-WHITNEY U TEST ANALYSIS OF TOTAL TELEVISION
VIEWING TIME BY AGE AND SEX
(N = 34)

	Median	Range	<u>u</u>	<u>p</u>
Three-Year-Old Children	36	00 - 80.5	120	n.s.
Four-Year-Old Children	34.5	36.5 - 64.5	•	
Boys	36	16.5 - 70.0	92.5	<.10
Girls	30.5	00 - 80.5		

Relation of Television Viewing to Social
Conformity, Social Relations,
and Attention Span

Total Viewing Time

The total television-viewing time was the number of hours the child viewed television during the two Television-Viewing Inventory weeks. The total viewing time, by age and sex, was compared to social conformity, social relations, and attention span. These correlations are presented in Table XI.

SPEARMAN RANK CORRELATIONS BETWEEN TOTAL TELEVISION VIEWING TIME
AND SCORES FOR SOCIAL CONFORMITY, SOCIAL RELATIONS,
AND ATTENTION SPAN
(N = 34)

	Social Conformity Scores		Social Relations Scores		Attention Span Scores	
	rho	P	rho	P	rho	P
Total Viewing Time f	or					
Three Year Olds	-0.415	. 095	-0.001	n.s.	0.202	n.s.
Four Year Olds	0.114	n.s.	0.596	.011	0.414	. 095
Boys	-0.541	.028	0.142	n.s.	-0.251	n.s.
Girls	0.145	n.s.	0.327	n.s.	0.163	n.s.
Total	-0.177	n.s.	0.244	n.s.	-0.028	n.s.

A Spearman rank correlation indicated a negative relationship between total television viewing time and social conformity scores for the boys; boys who viewed larger amounts of television were less conforming than boys who viewed less television (rho = -0.541; p = .028). There was a tendency for three-year-old children who viewed larger amounts of television to be less conforming than three-year-old children who viewed less television (rho = -0.415; p = .095). A Spearman rank correlation indicated a positive relationship between total television-viewing time and social relations for four-year-old children; that is, four-year-old children who viewed larger amounts of television had higher social relations scores than four-year-old children who viewed less television (rho = 0.596; p = .011). A

Spearman rank correlation indicated a tendency toward a positive relationship between television-viewing time and attention span scores for four-year-old children; that is, four-year-old children who watched larger amounts of television tended to have shorter attention spans than those who viewed less television (rho = .414; p = .095).

Intensity of Television Viewing

The most intense television viewing is constant viewing, as opposed to intermittent or little viewing while a television program is turned on. In the data analysis constant viewing time was compared, by age and sex, with social conformity, social relations, and attention span. Spearman rank correlations for these data are presented in Table XII.

TABLE XII

SPEARMAN RANK CORRELATIONS BETWEEN CONSTANT TELEVISION VIEWING TIME AND SCORES FOR SOCIAL CONFORMITY, SOCIAL RELATIONS, AND ATTENTION SPAN
(N = 34)

	Social Conformity Scores		Social Relations Scores		Attention Span Scores	
	rho	P	rho	P	rho	P
onstant Intensity lewing Time for						
Three Year Olds	-0.567	. 017	0.0 79	n.s.	0.171	n.s
Four Year Olds	0.528	.028	0.557	.019	-0.141	n.s
Boys	-0. 07 2	n.s.	0.072	n.s.	-0.114	n.s
Girls	0.176	n.s.	0.495	. 035	0.231	n.s
Total	0.077	n.s.	0.299	. 083	0.045	n.s

Spearman rank correlations between constant television-viewing time and social conformity scores indicated a negative relationship for three-year-old children and a positive relationship for four-yearold children. Three-year-old children who viewed many programs with constant intensity were less conforming than were those who viewed less television with constant intensity (rho = -0.567; p = .017). Four-yearold children who viewed many programs with constant intensity were more conforming than those who viewed less television with this degree of intensity (rho = 0.528; p = .028). A Spearman rank correlation indicated a positive relationship between constant television viewing and social relations for four-year-old children; that is, four-year-old children who viewed larger amounts of television with constant intensity had higher social relations scores than those four-year-old children who viewed less television with constant intensity (rho = 0.557; p = .019). Girls who viewed larger amounts of television with constant intensity also had higher social relations scores than those girls who viewed less television with constant intensity (rho = 0.495; p = .035).

An analysis of attention span scores indicated no significant relationship to the intensity of television viewing. Also, the analysis of other degrees of intensity of viewing (intermittent and little) indicated no significant relationship to social conformity, social relations, and attention span.

Companionship During Television Viewing

Companionship scores represent the percentage of each child's total viewing time that was spent viewing television alone, with another child, and with an adult. Statistical analyses indicated no

significant relationships between companionship (viewing with a child or with an adult) and social conformity, social relations, and attention span. However, viewing alone was related to social conformity and social relations for certain groups of children. Spearman rank correlations indicating these relationships are presented in Table XIII.

SPEARMAN RANK CORRELATIONS BETWEEN COMPANIONSHIP DURING TELEVISION VIEWING (VIEWING ALONE) AND SCORES FOR SOCIAL CONFORMITY,
SOCIAL RELATIONS, AND ATTENTION SPAN
(N = 34)

	Social Conformity Scores		Social Relations Scores		Attention Span Scores	
**************************************	rho	P	rho	<u>P</u>	rho	P
iewing Alone Time f	or					
Three Year Olds	-0.542	. 023	0.022	n.s.	0.188	n.s.
Four Year Olds	0.070	n.s.	0.224	n.s.	0.344	n.s.
Boys	0.140	n.s.	0.523	. 035	0.311	n.s.
Girls	-0.177	n.s.	-0.040	n.s.	0.434	. 069
Total	0.009	n.s.	0.181	n.s.	0.317	. 065

For the three-year-old children there was a significant negative correlation between viewing alone and social conformity. Three-year-old children who viewed large amounts of television alone were <u>less</u> conforming than other three-year-old children ($\underline{\text{rho}} = -0.542$; $\underline{p} = .023$). For the boys there was a significant positive relationship between

viewing alone and social relations. Boys who viewed larger amounts of television alone had higher social relations scores than did boys who viewed less television alone ($\underline{rho} = 0.523$; $\underline{p} = .035$). For the girls there was a tendency for viewing alone to be related to attention span. Girls who viewed large amounts of television alone tended to have shorter attention spans than girls who viewed less television alone ($\underline{rho} = 0.434$; $\underline{p} = .069$).

Social Conformity and Social Relations

The relationship between social conformity and social relations was analyzed by means of Spearman rank correlations. None of the correlations was statistically significant. The correlations, by age and sex are presented in Table XIV.

SPEARMAN RANK CORRELATIONS BETWEEN SCORES FOR SOCIAL CONFORMITY
AND SOCIAL RELATIONS
(N = 34)

	rho	<u>P</u>
Three-Year-Old Children	-0.282	n.s.
Four-Year-Old Children	0.206	n.s.
Boys	0.002	n.s.
Girls	0.259	n.s.
Total	0.079	n.s.
	•	

Hypotheses Investigated

Hypotheses Related to Age

- 1. There is no relationship between age and viewing time. There was no significant difference between the television viewing time of older and younger children in the present study (Table X; Mann-Whitney U test; U = 120; n.s.). The hypothesis is tenable.
- 2. There is no relationship between age and intensity of viewing. There was no significant difference between the time spent in constant television viewing of older and younger children in the present study (Mann-Whitney U test; $\underline{U} = 115$; n.s.). The hypothesis is tenable.
- 3. There is no relationship between age and social conformity scores. Four-year-old children had significantly higher social conformity scores than did three-year-old children (Table VII; $\underline{v} = 70.5$; $\underline{p} < .02$). The older children in the present study were more conforming to their peers than were the younger children. The hypothesis can be rejected.
- 4. There is no relationship between age and social relations scores. There was no significant difference between the social relations scores of older and younger children in the present study (Table VIII; $\underline{U} = 95$; p < .10). The hypothesis is tenable.
- 5. There is no relationship between age and attention span. There was no significant difference between the attention spans of older and younger children in the present study (Table IX; $\underline{U} = 107$; n.s.). The hypothesis is tenable.

Hypotheses Related to Sex

- 6. There is no relationship between sex and viewing time. There was no significant difference between the viewing time of boys and girls in the present study (Table X; $\underline{U} = 92.5$; $\underline{p} < .10$). The hypothesis is tenable.
- 7. There is no relationship between sex and intensity of television viewing. There was no significant difference between the time spent in constant television viewing of boys and girls in the present study (Mann-Whitney U test; \underline{U} = 119.5; n.s.). The hypothesis is tenable.
- 8. There is no relationship between sex and social conformity scores. There was no significant difference between the social conformity scores of boys and girls in the present study (Table VII; U = 159; n.s.). The hypothesis is tenable.
- 9. There is no relationship between sex and social relations scores. There was no significant difference between the social relations scores of boys and girls in the present study (Table VIII; U = 93; p < .10). The hypothesis is tenable.
- 10. There is no relationship between sex and attention span. There was no significant difference between the attention span of boys and girls in the present study (Table IX; $\underline{U} = 108$; n.s.). The hypothesis is tenable.

Hypotheses Related to Television Viewing

The relationships in each of the hypotheses related to television viewing was analyzed for three-year-old children, for four-year-old

children, for boys, for girls, and for the total sample. The results will be reported for each analysis.

11. There is no relationship between the amount of television-viewing time and social conformity scores.

Three-year-old children who viewed larger total amounts of television had a tendency to have <u>lower</u> social conformity scores than three-year-old children who viewed less television (Table XI; $\underline{rho} = -0.415$; $\underline{p} = .095$). For three-year-old children the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and social conformity scores for four-year-old children (Table XI; rho = 0.114; n.s.). For four-year-old children the hypothesis is tenable.

Boys who viewed large amounts of television had <u>lower</u> social conformity scores than boys who viewed less television (Table XI; $\underline{\text{rho}} = -0.541$; $\underline{p} = .028$). For boys the hypothesis is rejected.

There was no significant difference between the amount of television-viewing time and social conformity scores for girls (Table XI; rho = 0.145; n.s.). For girls the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and social conformity scores for the total sample (Table XI; rho = -0.177; n.s.). For the total sample the hypothesis is tenable.

12. There is no relationship between the intensity of television viewing and social conformity scores.

Three-year-old children who viewed large amounts of television with constant intensity had lower social conformity scores than the

other three-year-old children (Table XII; $\underline{\text{rho}} = -0.567$; $\underline{p} = .017$). For three-year-old children the hypothesis is rejected.

Four-year-old children who viewed large amounts of television with constant intensity had <u>higher</u> social conformity scores than the other four-year-old children (Table XII; $\underline{\text{rho}} = 0.528$; $\underline{p} = .028$). For four-year-old children the hypothesis is rejected.

There was no significant difference between the intensity of television viewing and social conformity scores for boys (Table XII; rho = -0.072; n.s.). For boys the hypothesis is tenable.

There was no significant difference between the intensity of television viewing and social conformity scores for girls (Table XII; rho = 0.176; n.s.) For girls the hypothesis is tenable.

There was no significant difference between the intensity of television viewing and social conformity scores for the total sample (Table XII; <u>rho</u> = 0.077; n.s.). For the total sample the hypothesis is tenable.

13. There is no relationship between the companionship while viewing television and social conformity scores. Statistical analyses indicated no significant relationships between viewing with a child or with an adult and social conformity scores. However, viewing alone was related to social conformity scores for three-year-old groups of children.

Three-year-old children who viewed large amounts of television alone had <u>lower</u> social conformity scores (Table XIII; $\underline{\text{rho}} = -0.542$; $\underline{\text{p}} = .023$). For three-year-old children the hypothesis is rejected.

There was no significant difference between the amount of television viewed alone and social conformity scores for four-year-old

children (Table XIII; rho = 0.070; n.s.). For four-year-old children the hypothesis is tenable.

There was no significant difference between the amount of television viewed alone and social conformity scores for boys (Table XIII; rho = 0.140; n.s.). For boys the hypothesis is tenable.

There was no significant difference between the amount of television viewed alone and social conformity scores for girls (Table XIII; rho = -0.177; n.s.). For girls the hypothesis is tenable.

There was no significant difference between the amount of television viewed alone and social conformity scores for the total sample (Table XIII; <u>rho</u> = 0.009; n.s.). For the total sample the hypothesis is tenable.

14. There is no relationship between the amount of televisionviewing time and social relations scores.

There was no significant difference between the amount of television viewing time and social relations scores for three-year-old children (Table XI; rho = -0.001; n.s.). For three-year-old children the hypothesis is tenable.

Four-year-old children who watched larger amounts of television had <u>higher</u> social relations scores than did four-year-old children who watched less television (Table XI; <u>rho</u> = 0.596; \underline{p} = .011). For four-year-old children the hypothesis is rejected.

There was no significant difference between the amount of television-viewing time and social relations scores for boys (Table XI; rho = 0.142; n.s.). For boys the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and social relations scores for girls (Table XI; rho = 0.327; n.s.). For girls the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and social relations scores for the total sample (Table XI; <u>rho</u> = 0.244; n.s.). For the total sample the hypothesis is tenable.

15. There is no relationship between the intensity of television viewing and social relations scores.

There was no significant difference between the amount of constant intensity television viewing and social relations scores for three-year-old children (Table XII; rho = 0.079; n.s.). For three-year-old children the hypothesis is tenable.

Four-year-old children who watched larger amounts of television with constant intensity had <u>higher</u> social relations scores than did those who watched less television with this degree of intensity (Table XII; $\underline{rho} = 0.557$; $\underline{p} = .019$). For four-year-old children the hypothesis is rejected.

There was no significant difference between the amount of constant intensity television viewing and social relations scores for boys (Table XII; rho = 0.072; n.s.). For boys the hypothesis is tenable.

Girls who watched large amounts of television with constant intensity had <u>higher</u> social relations scores than did girls who watched less television with this degree of intensity (Table XII; $\underline{rho} = 0.495$; $\underline{p} = .035$). For girls the hypothesis is rejected.

There was a tendency for the total sample who watched large amounts of television with constant intensity to have higher social relations scores than those who watched less television with this degree of intensity (Table XII; $\underline{\text{rho}} = 0.299$; $\underline{p} = .083$). For the total sample the hypothesis is tenable.

16. There is no relationship between the companionship while viewing television and social relations scores. Statistical analyses indicated no significant relationships between viewing with a child or with an adult and social relations scores. However, viewing alone was related to social relations scores for boys.

There was no significant difference between the amount of television viewed alone and social relations scores for three-year-old
children (Table XIII; rho = 0.022; n.s.). For three-year-old children
the hypothesis is tenable.

There was no significant difference between the amount of television viewed alone and social relations scores for four-year-old children (Table XIII; rho = 0.224; n.s.). For four-year-old children the hypothesis is tenable.

Boys who viewed most of their television alone had higher social relations scores than did those who viewed most of their television with a companion (Table XIII; $\underline{\text{rho}} = 0.523$; $\underline{p} = .036$). For boys the hypothesis is rejected.

There was no significant difference between the amount of television viewed alone and social relations scores for girls (Table XIII;

rho = -0.040; n.s.). For girls the hypothesis is tenable.

There was no significant difference between the amount of television viewed alone and social relations scores for the total sample (Table XIII; <u>rho</u> = 0.181; n.s.). For the total sample the hypothesis is tenable.

17. There is no relationship between the amount of television-viewing time and attention span.

There was no significant difference between the amount of television-viewing time and attention span for three-year-old children (Table XI; rho = 0.202; n.s.). For three-year-old children the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and attention span for four-year-old children. However, four-year-old children who watched larger amounts of television tended to have shorter attention spans than did those who watched less television (Table XI; $\underline{\text{rho}} = 0.414$; $\underline{p} = .095$). For four-year-old children the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and attention span for boys (Table XI; rho = -0.251; n.s.). For boys the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and attention span for girls (Table XI; rho = 0.163; n.s.). For girls the hypothesis is tenable.

There was no significant difference between the amount of television-viewing time and attention span for the total sample (Table XI; <u>rho</u> = -0.028; n.s.). For the total sample the hypothesis is tenable.

18. There is no relationship between the intensity of television viewing and attention span.

There was no significant difference between the intensity of television viewing and attention span for three-year-old children (Table XII; <u>rho</u> = 0.171; n.s.). For three-year-old children the hypothesis is tenable.

There was no significant difference between the intensity of television viewing and attention span for four-year-old children (Table XII; <u>rho</u> = -0.141; n.s.). For four-year-old children the hypothesis is tenable.

There was no significant difference between the intensity of television viewing and attention span for boys (Table XII; rho = -0.114; n.s.). For boys the hypothesis is tenable.

There was no significant difference between the intensity of television viewing and attention span for girls (Table XII; rho = 0.231; n.s.). For girls the hypothesis is tenable.

There was no significant difference between the intensity of television viewing and attention span for the total sample (Table XII; rho = 0.045; n.s.). For the total sample the hypothesis is tenable.

19. There is no relationship between the companionship while viewing television and attention span. Statistical analyses indicated no significant differences between viewing with a child or with an adult or viewing alone and attention span. There was a tendency for girls who viewed most of their television alone to have shorter attention spans than those who viewed most of their television with a companion (Table XIII; $\underline{\text{rho}} = 0.434$; $\underline{p} = .069$). The hypothesis is tenable.

Hypothesis Related to Social Conformity and Social Relations Scores

20. There is no relationship between social conformity scores and social relations scores. An analysis using Spearman rank correlations indicated no significant differences between social conformity and

social relations scores for three-year-old children, for four-year-old children, for boys, for girls, or for the total sample. The hypothesis is tenable.

Summary of Findings

- 1. The actual amounts of television viewing of the children in this study ranged from 5.5 hours to 38.5 hours per child for the first warm weather recorded week, and 9.5 to 49.5 hours per child for the second cold weather recorded week.
- 2. The degree of intensity most often indicated for the children's viewing was constant viewing with a median of 18 hours per child during the two recorded weeks.
- 3. The types of programs watched by the largest number of children were situation, cartoons, children's educational programs, adult variety programs, and movies.
- 4. The television programs with more than ten children viewing at any one showing time were The World of Disney; Pink Panther; Sesame Street; the movie, Chitty, Chitty Bang Bang; Donny and Marie; Six Million Dollar Man; Captain Kangaroo; Uncle Zeb's Cartoon Camp; Scooby Doo; and Happy Days.
- 5. The most frequent companionship during television viewing was with an adult. Thirty-two children spent an average of 45 percent of their viewing time with an adult.
- 6. Out of the 1613 programs viewed at some time during the two recorded weeks by the 32 viewing children, the majority were approved by parents. Only 29 of the programs were designated as disapproved by parents as their children watched them.

- 7. There were no significant differences in total viewing time or in intensity of viewing according to age or sex.
- 8. Four-year-old children had significantly higher social conformity scores than did three-year-old children.
- 9. Boys who viewed larger total amounts of television had <u>lower</u> social conformity scores than did boys who viewed less television.
- 10. Four-year-old children who viewed larger total and constant intensity amounts of television had higher social relations scores than did those who viewed less television.
- 11. Three-year-old children who viewed many programs with constant intensity had <u>lower social conformity scores</u> than did those who viewed less television with this degree of intensity.
- 12. Four-year-old children and girls who viewed many programs with constant intensity had https://doi.org/10.1001/journal.com/ those who viewed less television with this degree of intensity.
- 13. Three-year-old children who viewed larger amounts of television alone were less conforming than those who viewed less television alone.
- 14. Boys who viewed large amounts of television alone had higher social relations scores than did those who viewed less television alone.
- 15. Girls who viewed large amounts of television alone tended to have shorter attention spans than did those who viewed less television alone.
- 16. There were no significant differences in attention spans of three-year-old and four-year-old children.
- 17. There were no significant correlations between social conformity and social relations scores.

Discussion of Findings

The results of this study were in agreement with prior research in that it found that older children had higher social conformity scores than did younger children. Earlier research has indicated that children become more conforming as they grow older. Four-year-old children who viewed large amounts of television with constant intensity were more conforming than those who viewed less television with the same intensity. This finding was expected, based upon observed evidence. Four-year-old children who viewed large amounts of television had shorter attention spans than children who viewed less television. This finding was also expected, based upon reports of experienced teachers of young children.

The results of this study disagree with findings by Sims (1963) in relationships between social conformity and social relations scores. In the Sims study the children with the higher social conformity scores were likely to have lower social relations scores, and the children with lower social conformity scores were more likely to have higher social relations scores. In the present study there was no significant relationship between social conformity and social relations scores.

The sample size in both studies was very small.

Social Conformity

The findings in relation to social conformity in many cases did not support the expected findings. It was expected that children who viewed larger amounts of television would tend to be more conforming. In the present study this was true for the four-year-old children but not true for the three-year-old children. Three-year-old children

amounts of television. This occurred when total amounts, constant intensity, and viewing alone were considered. Perhaps the freedom of conformity in the three-year-old children which seems to be present to a greater extent in all three-year-old children regardless of television viewing, allows television in general, to make less of an impact on the younger children.

Social Relations

The findings concerning television-viewing behavior and social relations scores disagree with those expected. Experienced teachers had suggested that children who viewed larger amounts of television would have lower social relations scores than children who watched less television. In the present study older children and girls who watched larger amounts of television had higher social relations scores than children who watched less television. Experienced nursery school teachers have reported a high incidence of television related dramatic play activities; perhaps this common cultural medium is important for friendships to develop easily.

The findings concerning companionship while viewing television and social relations did not support reported evidence. It has been suggested that children gain the greatest positive values from television viewing by interacting with another person while they view.

This study found no significant relationship between companionship while viewing television and social relations scores, except for boys. The present study found that boys who viewed large amounts of television alone had higher social relations scores than boys who viewed less alone.

Attention Span

The results of this study concerning attention span and age disagree with prior research findings by Bott (1923) and Van Alstyne (1932). They both found older children had significantly longer attention spans than younger children. In the present study there were no significant differences. The Bott and Van Alstyne studies were carried out more than forty years ago before the advent of television. This may be a finding that is related to the changing technology which includes television. This suggestion seems to be supported by the finding in this study that four-year-old children who viewed large amounts of television tended to have shorter attention spans than did children who viewed less television. Perhaps a change has occurred for children as they grow older and have viewed much television.

CHAPTER V

SUMMARY AND IMPLICATIONS

The purpose of this study was to investigate the relationship of television-viewing behavior and social development of young children.

Television-viewing behavior was compared, by age and sex, with social conformity, social relations, and attention span.

The children who participated in this study were 16 boys and 18 girls, ranging in age from three years, no months to four years, eight months. All were from middle class homes and all were in attendance at the University of Arkansas Laboratory Nursery School in Fayetteville, Arkansas.

A Television-Viewing Inventory, developed as a part of a pilot study of television-viewing behavior, was used to measure television viewing behavior in the present study. Two one-week Television-Viewing Inventories provided the parent with check-lists on which to record (1) each program the child watched, (2) the intensity with which the child watched each program, (3) the child's companion while he watched each program, and (4) the parent's attitude toward each program watched.

The Starkweather Social Conformity Test was used for measuring social conformity. This instrument was designed to measure conforming and nonconforming behavior by providing the young child with opportunities to make choices in a situation in which he would follow a

model or respond freely according to his own preferences. The Starkweather Social Relations Test was used for measuring social relations. This instrument was designed to measure a young child's reciprocal social value within his peer group. The attention span score was the total number of activities of the child during three five-minute time samples of activity shifts while the child was engaged in free play.

The data provide 23 scores for each child: social conformity; social relations; attention span; total hours of television-viewing time; hours of television-viewing time according to intensity of viewing, i.e., constant, intermittent, and little; hours of television-viewing for each of the thirteen program types; and percentages of time spent watching television alone, with an adult, or with another child. The data were analyzed for age and sex differences in social conformity, in social relations, in attention span, and in television viewing behavior using the Mann-Whitney U test; for relationships between television-viewing behavior and social conformity, social relations, and attention span using Spearman rank correlations; and for relationships between social conformity and social relations scores using Spearman rank correlations.

The findings of this research were as follows: (1) The actual amounts of television viewing of the children in this study ranged from 5.5 hours to 38.5 hours per child for the first recorded week and 9.5 to 49.5 hours per child for the second recorded week. (2) The degree of intensity most often indicated for the children's viewing was constant viewing with a median of 18 hours per child during the two weeks. (3) The types of programs watched by the largest number of

children were situation comedies, cartoons, children's educational programs, adult variety programs, and movies. (4) The television programs with more than ten children viewing them at any one showing time were World of Disney; Pink Panther; Sesame Street; the movie, Chitty, Chitty Bang Bang; Donny and Marie; Six Million Dollar Man; Captain Kangaroo; Uncle Zeb's Cartoon Camp; Scooby Doo; and Happy Days. (5) The most frequent companionship during television viewing was with an adult. Thirty-two children spent an average of 45 percent of their viewing time with an adult. (6) Out of the 1613 programs viewed at some time during the two weeks by the 32 viewing children, the majority were approved by parents. Only 29 programs were designated as disapproved by parents as their children watched them. (7) There were no significant differences in total viewing time or in intensity of viewing according to age or sex. (8) Four-year-old children had significantly higher social conformity scores than did three-year-old children. (9) Boys who viewed larger total amounts of television had lower social conformity scores than did boys who viewed less television. (10) Four-year-old children who viewed larger total and constant intensity amounts of television had higher social relations scores than did those who viewed less television. (11) Threeyear-old children who viewed many programs with constant intensity had lower social conformity scores than did those who viewed less television with this degree of intensity. (12) Four-year-old children and girls who viewed many programs with constant intensity had higher social conformity scores than did those who viewed less television with this degree of intentisy. (13) Three-year-old children who viewed larger amounts of television alone were less conforming than were those children who viewed less television alone. (4) Boys who

viewed large amounts of television alone had higher social relations scores than did those who viewed less television alone. (15) Girls who viewed large amounts of television alone tended to have shorter attention spans than did those who viewed less television alone. (16) There were no significant differences in attention spans of three-year-old and four-year-old children. (17) There were no significant correlations between social conformity and social relations scores.

Implications

There were conflicts in research findings between prior studies and this study in several areas. The attention spans of younger and older children showed no difference in this study; there had been a difference in past studies. The prior studies had been carried out many years ago before the advent of television. Clearly, more work needs to be done in this area.

The relationship of social conformity and social relations scores showed no difference in this study. A prior study had shown definite relationships. Both studies used very small samples of children; more work needs to be done in this area using larger samples of children.

Social relations scores indicated that older children and girls who watched more television had higher social relations scores than those who watched less television. Further studies need to be done to establish reasons for differences in the effect on older children and on girls only.

The large amount of television viewing reported for this group of children and the large number of programs approved by the parents points to a need for improved education of parents concerning the needs and development of children. Television is being used from early morning until late at night by young children. It would be highly desirable for children to have additional programs geared to their level for this viewing and for parents to have improved guidelines publicized for aiding their selection of programs for children.

In looking at the programs that children were watching, the program watched most consistently, considering the number of times it was on the air and the mean number of children watching it was "Uncle Zeb's Cartoon Camp," a children's cartoon show. This program was shown ten times during the two-week recorded viewing period and was watched by a mean of 11.5 children each time. The program was shown once each day in the later afternoon. An educational program designed specifically for children, "Sesame Street," was shown 26 times during the two-week recorded viewing period and was watched by a mean of 6.2 children per showing. Four children watched the program at least twice during the same day. Therefore, although this program was shown two to three times every day during the two-week recorded viewing period, not as many children watched it at any one time and the overall number of different children watching it was smaller than those watching a strictly entertaining show.

Experienced teachers report a high incidence of dramatic play reflecting television heroes. With the large amount of stereotyping and violence shown on television, it is not surprising that children portray war heroes, foolish males, sexually provocative females, and

science fiction heroes with superhuman abilities. The findings from this study suggest that many children are watching television with an adult. Perhaps the adults need educational guidance in ways to interact with young children about what is being shown on the screen.

Conclusions

This study provided much interesting information for use with parents and teachers of young children. Descriptive information about televiewing practices and suggestions for increased value from television usage with young children have been provided after the data had been analyzed in a bi-weekly newsletter distributed to nursery school parents and university students involved in work with young children.

The results of the Starkweather Social Relations Test were discussed with each parent during the parent-teacher conference at the conclusion of the first semester. Suggestions were provided for helping children to gain friends. Nursery School teachers were given names of choices of each child so that these children could be paired in group activities in the nursery school. A follow-up Starkweather Social Relations Test was given to these children near the conclusion of the second semester to determine growth that had occurred.

This study raised many interesting questions: (1) Is there a relationship between social conformity and social relations scores?

(2) Is there a real age difference in the relationships of television-viewing behavior and social conformity? (3) Does viewing of television facilitate higher social relations scores? (4) Does the companionship while viewing television affect the child's social

relations? (5) Is there a real effect on attention span that occurs about the fourth year? Further study with larger samples and wider diversity of social and ethnic backgrounds is needed to find answers for these questions.

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APPENDIXES

APPENDIX A

TABLE XV

DESCRIPTIVE DATA AND TEST SCORES FOR INDIVIDUAL CHILDREN PARTICIPATING IN A STUDY OF TELEVISION-VIEWING BEHAVIOR AND SOCIAL DEVELOPMENT IN EARLY CHILDHOOD (N = 34)

						Television Viewing Time Expressed in Hours							
			Social	Social Relations		Intensity of Viewing							
Child	Sex	Age	Conformity		Attention Span	Little	Intermittent	Constant	Total				
01	F	418	-02	.67	06	05.5	06.0	17.5	29.0				
02	F	418	+06	1.58	06	01.5	00.0	31.5	33.0				
03	M	3:6	00	.55	07	08.0	11.0	13.5	32.5				
04	M	3:10	00	.81	08	13.5	18.0	22.0	53.5				
05	M	417	+12	.92	06	04.0	09.0	21.5	34.5				
06	F	316	00	1.38	04	01.5	02.0	21.0	24.5				
07	F	4:0	+02	.64	05	24.5	30.0	10.0	64.5				
08	F	410	-04	.88	04	02.5	04.0	28.0	34.5				
09	F	4:1	00	.53	06	12.0	10.0	04.0	26.0				
10	М	415	-08	.29	18	01.0	05.5	15.0	21.5				
11	M	4:3	-04	. 58	11	15.0	04.0	15.5	34.5				
12	F	3:6	-02	. 56	06	04.5	12.5	12.5	29.5				
13	M	3:5	00	.13	03	23.5	25.0	21.5	70.0				
14	F	3:8	-02	.43	05	02.5	15.0	22.5	40.0				
15	М	4:0	+04	.91	04	15.5	22.0	06.5	43.5				
16	F	4:4	+14	.76	05	08.5	17.0	25.5	51.0				
17	M	4:1	+04	.78	05	07.0	10.0	20.5	37.5				
18	M	315	+06	.16	04	07.0	13.5	04.0	24.5				
19	F	3:0	-02	.41	.04	03.0	11.5	15.5	30.0				
20	M	414	+04	.50	07	00.5	07.0	09.0	16.5				
21	F	3:0	-04	.63	03	00.0	00.0	00.0	00.0				
22	, M	3 1 7	+02	.31	11	22.5	15.5	17.5	55.5				
23	F	4:7	+04	.65	07	00.0	05.5	25.5	31.0				
24	F	412	-06	1.00	04	10.5	09.0	22.5	42.0				
25 .	F	3:8	+04	.75	04	00.0	00.0	00.0	00.0				
26	M	416	+06	.88	07	07.5	13.0	20.5	41.0				
27	M	3:2	+02	.33	04	13.5	17.5	11.0	42.0				
28	F	3:10	+06	.12	06	05.5	07.0	09.0	21.5				
29	F	3:11	+02	.81	06	14.5	22.0	44.0	80.5				
30	F	3:5	-04	1.00	05	08.0	38.0	10.0	56.0				
31	F	4:4	+02	.75	05	02.5	11.0	15.0	28.5				
32	М	3:0	-02	.70	08	00.5	10.0	18.0	28.5				
33	M	415	+12	00	04	00.0	06.0	19.0	25.0				
34	M	3:6	+04	.16	03	03.5	16.5	32	42.0				

TABLE XVI

TELEVISION-VIEWING TIME* OF INDIVIDUAL CHILDREN
FOR VARIOUS TYPES OF PROGRAMS

Child	Type 13	Type 12	Type 11	Type 10	Type 09	Type 08	Type 07	Type 06	Type 05	Type 04	Type 03	Type 02	Type 0
01	00.0	02.0	03.0	00.0	00.0	10.5	00.0	00.5	02.5	00.0	01.0	07.5	00.0
02	01.0	03.5	00.0	02.0	00.0	11.0	00.0	00.0	05.0	00.0	00.0	10.5	00.0
03	00.0	09.0	00.0	00.0	00.0	07.5	00.0	00.0	02.5	00.0	00.5	13.0	00.0
04	02.5	10.5	00.0	01.5	00.0	07.5	00.0	02.0	11.0	02.5	00.0	16.0	00.0
05	01.5	07.5	00.0	01.0	02.5	07.5	01.0	03.0	05.5	00.0	01.0	01.5	02.5
06	00.0	02.5	00.0	01.0	00.0	07.5	00.0	01.0	02.5	00.5	00.0	07.5	02.0
07	01.5	11.0	02.0	04.0	05.0	16.5	00.0	06.5	13.5	01.5	02.5	00.5	00.0
08	02.0	06.0	00.0	04.5	00.0	09.5	00.0	01.0	05.5	00.0	01.0	04.0	01.0
09	03.5	14.5	00.0	02.0	02.5	00.0	00.0	00.0	00.0	00.0	00.0	02.5	01.0
10	01.0	00.0	00.0	01.0	00.0	09.0	00.0	09.5	00.0	00.0	00.0	06.0	00.0
11	02.5	13.5	00.0	01.0	00.0	02.5	00.0	00.0	02.0	13.0	00.0	00.0	00.0
12	02.0	08.0	00.0	01.0	00.0	10.5	00.0	00.0	00.0	00.0	00.0	08.0	00.0
13	06.5	06.0	00.0	06.0	09.0	18.0	03.5	02.5	10.0	05.5	00.5	02.5	03.0
14	01.0	17.0	00.0	05.0	02.5	02.5	00.0	02.5	00.0	04.0	02.0	02.0	01.5
15	00.0	02.0	03.0	03.5	00.0	09.5	06.5	02.0	08.5	02.5	00.5	05.5	00.0
16	01.0	14.5	00.0	06.5	00.0	11.5	00.0	00.0	07.5	03.0	00.0	08.0	00.0
17	01.0	15.5	00.0	04.5	00.0	08.0	00.0	00.0	00.0	00.0	00.0	04.5	04.0
18	00.0	14.0	00.0	03.0	00.0	01.0	00.0	00.5	00.0	01.5	00.0	03.0	01.5
19	01.0	09.5	00.0	02.0	00.0	04.5	00.0	01.0	02.5	00.0	00.0	08.5	01.0
20	00.0	04.0	00.0	00.0	00.0	05.5	00.0	00.0	03.0	00.5	00.0	03.5	00.0
21	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	01.5	08.5	00.0	02.5	00.0	09.5	03.5	02.5	08.0	15.0	00.0	03.0	. 01.5
23	00.5	10.0	00.0	02.0	00.0	07.5	00.5	00.0	03.5	01.5	00.0	05 .5	00.0
24	01.5	08.5	00.0	07.0	00.0	05.0	00.5	07.0	05.0	02.0	00.0	04.0	01.5
25	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	00.0	00.0	00.0	01.5	02.0	10.5	00.0	01.0	08.5	00.0	04.0	12.0	01.5
27	00.0	15.5	00.0	03.0	00.0	07.0	06.5	00.0	05.0	01.0	00.0	03.0	01.5
28	00.0	01.0	00.0	03.0	00.0	06.0	00.0	01.5	03.5	00.0	00.0	05.0	01.5
29	02.0	14.5	00.0	07.5	00.0	19.0	01.0	10.0	07.5	02.0	09.0	06.5	01.5
30	02.0	08.0	00.0	03.5	00.0	19.0	00.0	01.0	03.5	01.0	03.0	12.5	02.5
31	00.5	03.0	00.5	01.0	00.0	07.0	00.0	00.0	08.0	00.0	00.0	07.5	01.0
32	01.0	03.0	00.5	01.0	00.0	04.5	00.0	00.0	08.5	00.0	00.0	08.0	02.0
33	00.0	10.0	00.0	01.5	00.0	02.0	00.0	00.0	04.0	00.0	04.5	01.5	01.5
34	02.5	09.5	00.0	01.0	00.0	11.0	00.0	02.5	08.0	00.0	02.5	04.0	01.0

^{*} Total number of hours of television viewing during two weeks.

TABLE XVII

COMPANIONSHIP OF INDIVIDUAL CHILDREN WHILE WATCHING TELEVISION

		Percentage of Time	
Child Child	Alone	With Adult	With Child
01	1.4	2.9	5.7
02	2.7	6.1	1.2
03	4.6	1.1	4.3
04	2.3	4.4	3.3
05	5.2	4.8	0.0
06	1.2	1.0	7.8
07	1.2	5.2	3.6
08	0.6	4.6	4.8
09	2.3	7.5	0.2
10	3.0	6.5	0.5
11	3.1	6.5	0.4
12	0.8	1.9	7.3
13	1.1	8.3	0.6
14	4.4	5.4	0.2
15	0.5	7.2	2.3
16	0.6	3.9	5.5
17	4.0	3.0	2.1
18	0.2	5.1	4.7
19	2.8	3.7	3.5
20	0.6	2.4	7.0
21	0.0	0.0	0.0
22	1.0	8.8	0.2
23	4.8	4.5	0.7
24	2.2	6.0	1.8
25	0.0	0.0	0.0
26	3.0	6.7	0.3
27	0.6	5.0	4.4
28	0.5	3.7	5.8
29	2.4	7.3	0.3
30	0.2	1.9	7.9
31	0.0	5.8	4.2
32	0.0	6.3	3.7
33	0.0	9.8	0.2
34	0.6	2.9	6.5

APPENDIX B

TELEVISION-VIEWING INVENTORY

The Television-Viewing Inventory was designed to provide a checklist to record each program a child viewed, the intensity with which the child viewed each program, the companion with whom the child viewed each program, and the parent's attitude toward the program the child viewed. The Television-Viewing Inventory requires the child's parent to record the daily program choices and characteristics of his child's viewing habits by checking a printed Television-Viewing Inventory form.

The Television-Viewing Inventory form consists of a form listing every program available in the Fayetteville, Arkansas viewing area between 7:00 a.m. and 11:00 p.m. Two separate forms were prepared for the two one-week recorded viewing period. Each program is identified on the Television-Viewing Inventory by a five-digit number. The first digit, 1 or 2, designates the first or second week of the study. The second digit, 0 through 6, designates the day of the week, Friday through Thursday. The final three digits designate the specific program. The time and television channel where each program is presented are also provided.

Each program is given a type number used in analyzing the patterns of viewing behavior. Each program is classified by the investigator into one of the following types: adventure - 1, cartoons - 2, game show - 3, adult information - 4, movie - 5, mystery - 6, serial (soap opera) - 7, situation comedy - 8, sports - 9, adult variety - 10, religious - 11, children's educational - 12, children's variety - 13.

The parent is asked to record every program the child watches during the Television-Viewing Inventory periods. He is also asked to record certain aspects of the child's viewing behavior: (1) whether the child watches alone or with someone; (2) the intensity with which the child watches---constant, intermittent, or little; and (3) the parent's attitude toward the specific program the child watches---approval, neutral, or disapproval.

The instructions for completing the Television-Viewing Inventory are presented on page 88. An example of a completed page from a Television-Viewing Inventory form, as submitted by one parent, is presented in Figure 1 on page 89.

For analysis purposes, the programs recorded for each child may be analyzed for total viewing time, viewing time according to intensity of viewing, viewing time according to companionship, viewing time according to parental attitude, or viewing time according to program type. The individual programs may also be analyzed for each of these factors with the data provided by each individual child.

TELEVISION-VIEWING INVENTORY INSTRUCTIONS

Your careful completion of the attached check-list will give information of interest to you about your child's television viewing habits. After I tabulate the results of the check-lists from all of the University of Arkansas Nursery School children, the composite results will be interesting to you.

For the results to be meaningful, all parents need to follow the same instructions.

- 1. Please check the sheet after EVERY program your child watches.
- 2. Please check the appropriate columns in each of the three sections for each program.
- 3. For checking the "Intensity of Watching" (the concentration with which your child watches), please use the following definitions:
 - Constant child's entire attention was on the program during at least 75% of the program.
 - Intermittent child did at least one other activity (such as eating, exercising, artwork, etc.) while watching the program.
 - <u>Little</u> child actually watched the program less than half the time the program was in progress.
- 4. For checking the middle section, please check the column/s that are true for half or more of the program time.
- 5. For checking the "Parents' Reaction to Program" section, please check the column that most nearly reflects your feeling toward that particular program.
- 6. The program types are listed according to the following code:
 - 1 Adventure
 - 2 Cartoon
 - 3 Game Show
 - 4 Adult Information
 - 5 Movie
 - 6 Mystery
 - 7 Serial

- 8 Situation Comedy
- 9 Sports
- 10 Adult Variety
- 11 Religious
- 12 Children's Educational
- 13 Children's Variety

Section Street						tens!	ty of		Watch	es Pro	gram A Someon	lone			t's Rea	
Code No.	TV Ch.	Time	Program	Type	Constant	Intermittent	Little	Alone	Sibling	Mother	Father	Other Child	Other Adult	Approval	Neutral	Disapproval
11001	5,7	7:00	Woody Woodpecker	2												
11002	6,16	7:00	Sylvester and Tweety	2	_			L								
11003	8,12	7:00	Tom & Jerry/Grape Ape	2	<u> </u>											
11004	5,7	7,:30	Pink Panther	2	x			L	X		X				X	
11005	6,16	7:30	Bugs Bunny/Road Runner	2												
11006	8,12	8:00	Jabberjaw	2												
11007	6,16	8:30	Tarzan	2												
11008	8,12	8:30	Scooby Doo/Dynomutt	2												
11009	5,7	9:00	McDuff, the Talking Dog	1		L_		L				·				
11010	6,16	9:00	Shazam/Isis	1 .	х				x	x					х	
11011	5,7	9:30	Monster Squad	1				L								
11012	8,12	9:30	Krofft Supershow	2												
11013	5,7	10:00	Land of the Lost	8												
11014	6,16	10:00	Ark II	8		х			х						x	
11015	11	10:00	Electric Company	12												
11016	5,7	10:30	Big John, Little John	8												
11017	6,16	10:30	Clue Club	2	x				х					х		_

Figure 1. Specimen Page from Television-Viewing Inventory

APPENDIX C

STARKWEATHER SOCIAL CONFORMITY TEST

FOR PRESCHOOL CHILDREN*

developed by

Elizabeth K. Starkweather

Oklahoma State University Stillwater, Oklahoma

The Starkweather Social Conformity Test is a research instrument designed to measure conforming and nonconforming behavior by providing the young child with opportunities to make choices in a situation in which he can follow a model or respond freely according to his own preferences. The test discriminates between children who are compulsive conformists or nonconformists and children who are free to use either conforming or nonconforming behavior.

The social conformity test was designed to meet the following criteria: (a) The compulsive quality and the conforming quality of a child's behavior must be measured independently. The child who is a compulsive nonconformist is just as rigid as the child who is a compulsive conformist. (b) The test must be adjustable in order that the opportunity to conform be of similar potency for all children. Conforming behavior is common when a child has an opportunity to conform to persons he likes, whereas the reverse is true in the case of persons he dislikes. Similarly, conforming behavior is to be expected when it involves the choice of a preferred object.

The social conformity test is based on color preferences and is adjusted to the actual preferences of individual children. A pretest provides an opportunity for each child to indicate his color preferences. Then in the test proper, each child is given opportunities to conform as he constructs a picture booklet, page by page, identical to or different from booklets constructed for other persons (e.g., parents or peers).

Color Preference Pretest

A color wheel, consisting of 13 different colored strips of paper attached to a cardboard disc, is presented to the child. He ranks these colors by first tearing off the one he likes best, and then continuing, one color at a time, until he has torn all colors from the disc. The five colors ranked as 1, 4, 7, 10, and 13, are then used in

^{*}This research was supported by the U.S. Office of Education, Cooperative Research Project #1967, and administered by the Research Foundation, Oklahoma State University.

the testing of that particular child. In this way for each child the social conformity test includes colors which he prefers and colors which he does not prefer. This adjustment is made to assure that the opportunity to conform will be of similar potency for all children tested.

The reliability of this method of determining color preferences was tested by administering the color wheel twice to a group of 29 children and analyzing their responses for consistency of color preferences. In this analysis, a color was accepted as retaining its relative position if its rank changed no more than three places from the first to the second session. The colors which were high-ranking (#1 and #4) and low-ranking (#10 and # 13) during the first session did retain their relative positions during the second session ($X^2 = 29.217$; p<.001).

Construction of Picture Booklets

The social conformity test gives each child opportunities to conform to other persons while constructing a small picture booklet of colored pages (2" x 3"). When the focus is on conformity to peers, the child is asked to name three friends; then three identical pages (e.g., the picture of a cow on a red page) are placed before the child and he is told that these are for his friends. He is then given his choice between a page identical to those for his friends and a page of a different color (e.g., the picture of a cow on a blue page). For these choices, the five colors selected in the pretest are arranged in pairs, each color being paired with every other color twice, making a total of 20 pairs. These are presented to the child in such a way that he has an opportunity to choose between red and blue, for example, when his friends receive red and again when his friends receive blue. The assumption underlying this design is that the child who really prefers one of the two colors will choose that color on both occasions if he is free to use conforming or nonconforming behavior, whereas the conformist will choose the preferred color only when his friends receive it, and the nonconformist will choose the preferred color only when his friends do not receive it.

The sequence in which the paired colors are presented to each child is shown on the attached score sheet. In this sequence no color appears in two consecutive pairs and each color appears on the right and on the left an equal number of times. The conforming color, i.e., the color given to the friends, is the color on the left during the first half of the sequence and on the right during the last half; thus, the child who chooses all colors from one side, for whatever reason, would appear to be conforming half the time and nonconforming half the time, and the resulting test score of zero would accurately indicate that he had not been influenced by the opportunities to conform.

Scoring

The scoring of the social conformity test consists of a numerical count of the conforming and nonconforming responses made by the child. A D-score, or difference score, is then figured by subtracting the number of nonconforming responses from the number of conforming responses. The possible range of D-scores is from -20 (complete nonconformity) to +20 (complete conformity).

Evaluation

The Starkweather Social Conformity Test was administered to 200 children, ranging in age from two years six months to five years eleven months. The children were assigned to experimental and control groups, matched according to sex and age (within four months). For the children in the experimental group, the test was administered first with an opportunity for conformity to peers (three friends) and again with an opportunity for conformity to parents. For the children in the control group, the test situation provided no opportunity to conform. Data obtained from these three test situations were analyzed to determine whether the opportunity to conform did influence the responses of the children, and to determine whether the influence was greater in one situation than in another. If the social conformity test provided a valid measure of the influence (positive or negative) of the opportunity to conform, then the children in the experimental group should have larger D-scores than the children in the control group. (For the control group, the distribution of conforming and nonconforming responses would be the result of chance, and the D-scores for this group should approximate zero).

An analysis of the frequency of large and small D-scores indicated that the children in the experimental group were influenced by the opportunity to conform to parents ($X^2 = 8.219$; p < .01). A similar analysis of the responses of these children when given an opportunity to conform to peers showed no difference between their responses and those of the children in the control group ($X^2 = 1.020$; n.s.). These results indicate that the social conformity test does measure the influence of the opportunity to conform, and to this extent it is a valid instrument. For the young children who participated in this study, the opportunity to conform to parents was a more potent influence than the opportunity to conform to peers.

The internal consistency of the social conformity test was determined by a split-half analysis of the responses of the children when they had an opportunity to conform to parents. The number of conforming responses made by each child during the first and last half of the test were used in this analysis. The Spearman-Brown formula yielded a correlation coefficient of +0.779 (P<.01). (For this and subsequent analyses, the experimental group was enlarged to include 20 boys and 20 girls in each of the three age groups: three-year-olds, four-year-olds, and five-year-olds.

In the design of the social conformity test, the assumption was made that strong likes and dislikes would influence a child's conforming behavior. The validity of this assumption was demonstrated in an analysis of the number of times that the children accepted and rejected their favorite color and their least liked color. When conforming required that a child accept one or the other of these two colors, the favorite color was more frequently accepted ($X^2 = 38.861$; p<.001). When conforming required that the child reject one of these two colors, the least liked color was the more frequently rejected ($X^2 = 69.962$; p<.001).

The data were further analyzed for age and sex differences. No significant age differences in conforming behavior were apparent; however, there were marked sex differences. Of the 120 children in the group, 41 had large D-scores. Boys and girls were influenced by the opportunity to conform to parents; however, the girls were primarily conformists and the boys were both conformists and non-conformists. This difference between the boys and girls was statistically significant ($X^2 = 7.351$; p<.01).

STARKWEATHER SOCIAL CONFORMITY TEST FOR PRESCHOOL CHILDREN

				10-1-			
Color	Prefere	nces:	lst-A <i>p</i>	urple	4th	ı-в <u>с</u>	erise
7th-C	tan)	10th-D	green	13th	-E y 6	2 110W
ting Pla	aceF	aye#	eville	Arka	nsas	5	
		•					
	С	nc			nc	С	_
1.	A	В		11.	С	D	
2.	C	D		12.	Â	В	
3.	E	A		13.	E	С	
4.	С	B		14.	D	A	
5.	D	E		15.	B	E	
6.	A	С		16.	A	С	
7.	B	D		17.	D	E	
8.	E	C		18.	С	B	
9.	D	A		19.	E	A	
10.	B	E		20.	B	D	

Nonconformity (nc): //

D-Score: OO

APPENDIX D

STARKWEATHER SOCIAL RELATIONS TEST

FOR PRESCHOOL CHILDREN*

developed by Elizabeth K. Starkweather

Oklahoma State University Stillwater, Oklahoma

The Starkweather Social Relations Test is designed to measure a young child's social value within his own peer group. It is more than a test of popularity. It combines a picture interview technique with gift-giving, and each child's value in his group is measured in terms of the extent to which his gift-giving is reciprocated by the children whom he chooses. The assumption underlying the choice of gift-giving as a technique for measuring social relations is that an individual wants to benefit someone he likes.

The Instrument

The materials needed for the social relations test include the following:

- (1) A composite picture of the children in the group. A picture is needed to help each child remember the other children in his group and to permit him to indicate each choice by pointing to a picture of by naming a child. Individual pictures of the children can be mounted on heavy mat board or, as is necessary with large groups, a composite picture can be constructed from pictures taken of a few children at a time. Examples of two composite pictures used in the present study are presented in Figures 1 and 2.
- (2) Inexpensive toys, such as small plastic cars, marbles, balloons, and pictures. These toys are the gifts which are given to the chosen children. The number of toys needed depends upon the number of children participating in the study. Sixteen gifts are needed for each child -- four each of four different gifts. Gift-giving as the technique for measuring social relations among young children is of particular value because the child makes his choice of other children in terms of specific criteria (the gifts) which he can understand,

^{*}The Starkweather Social Relations Test was developed as a part of the creativity research supported by the Research Foundation, Oklahoma State University.

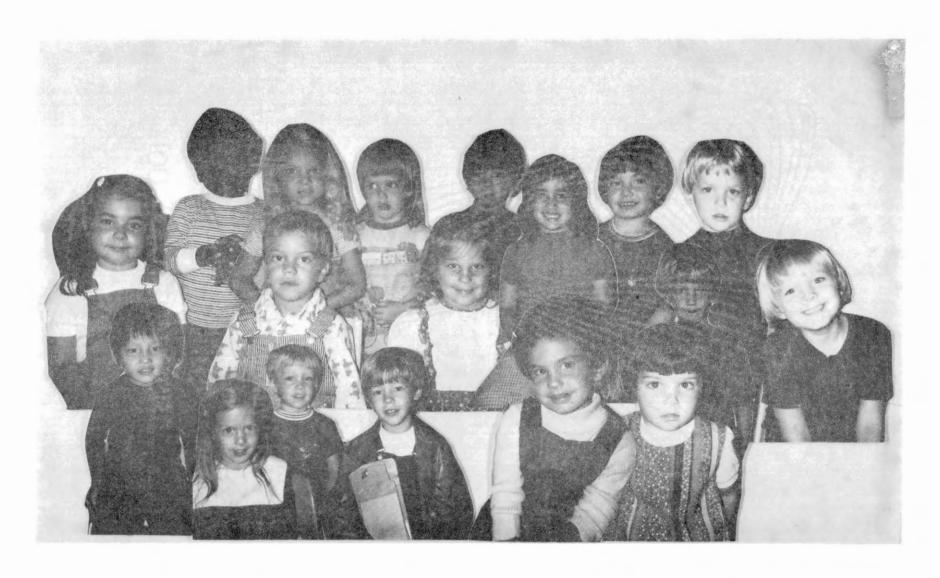


Figure 2. Composite Picture of the Morning Group of Nursery School Children

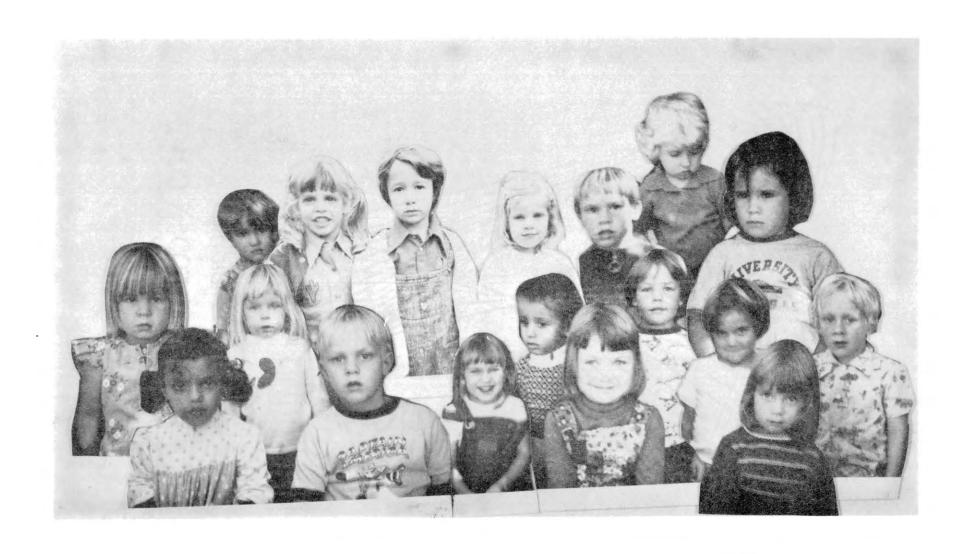


Figure 3. Composite Picture of the Afternoon Group of Nursery School Children

and the actual giving of a gift, as a consequence of the child's naming another child, emphasizes the importance of his choice and thereby increases the probability of the test results being valid.

(3) Enveloped, pre-labelled with the names of the children in the group. In order to insure the privacy of the children's choices of other children, a method of distributing the gifts without identifying the giver is essential. One method that has been most successful has been that of having the child, as he makes his choices, help to place the gifts in pre-labelled enveloped designated as belonging to the children he has chosen. Attractive and interesting enveloped can be easily made from the pages of a wallpaper sample book, preferably a sample book for wallpaper that is clothbacked.

Administration

First the composite picture of the children in the peer group is shown to the child, and he is encouraged to name all the children pointing to each one as he does so. "Here is a picture of children you know. Can you find your picture? (Pause) Tell me who the other children are."

The child is then given his choice of several possible gifts, with the understanding that the one he chooses is his to keep. For example, he may choose one of several small plastic toys, such as animals or cars. Three gifts, identical to the one chosen by the child for himself, are then placed on the table before him. "These (cars) are for your friends." The experimenter then touches the toys (cars) one at a time and asks the child to whom he wants each one to be given. As the child makes his choices, he puts each gift in the pre-labelled envelope designated as belonging to the child he has chosen. This procedure of gift-giving is repeated until the child has chosen friends for four different gifts, making a total of 12 choices.

Scoring

The scoring of the social relations test is designed to show the relationship between the child's choice of other children and their choice of him. For example, Child F-1316, as shown in Table I, was chosen by five of the seven children whom she chose. In calculating her social relations (S.R.) score, her relationship to each of the seven children is expressed as a weighted score to show the return that she received on her investment; and then the sum of these weighted scores is divided by seven, i.e., is divided by the total number of children chosen by her. These calculations can be illustrated as follows:

$$\frac{0/2 + 1/1 + 1/1 + 1/3 + 2/1 + 2/3 + 0/1}{7} = \frac{0.00 + 1.00 + 1.00 + 0.33 + 2.00 + 0.67 + 0.00}{7} = \frac{5.00}{7} = 0.71$$

In the following table, the scores of three children are presented for the purpose of illustrating the meaning of the social relations scores. The first child, F-1316, chose seven of the other children; and in turn, five of them chose her. She chose these children a total of 12 times, but she was chosen by them only nine times and did not receive a complete return on her investment in them. Her score was 0.71. The second child, M-1337, was a child who was liked by everybody and was very popular. He spread himself in his gift-giving and was frequently chosen by other children. His score of 1.25 shows that he received a large return on his investment in the other children. The third child, M-1318, chose seven of the others, but only two of them chose him. His score of 0.12 shows clearly that he received little return on his investment in the other children.

TABLE I

STARKWEATHER SOCIAL RELATIONS TEST: EXAMPLES OF DATA
FOR THE CALCULATION OF S.R. SCORES

			01	ther	Chi	ldre	a		
	A	В	С	D ·	E	F	G	H	S.R. Score
F-1316 is chosen	0	1	1	1	2	2	0	2	
F-1316 chooses	2	1	1	3	1	3	1	0	0.71
M-1337 is chosen	1	4	2	2	1	1	1	1	
M-1337 chooses	1	1	2	2	1	2	2	1	1.25
M-1318 is chosen	0	0	1	1	0	0	0	0	
M-1318 chooses	1	1	2	3	1	2	2	0	0.12

Possible scores on the social relations test range from 0.00 to 4.00. A score of 0.00, which is not uncommon, would be earned by a child who received no return on his investment in other children; i.e., no child to whom he gave a gift would have chosen him in return. A score of 4.00, which is highly improbable, would be earned by a child who received a maximum return on his investment in other children; i.e., he would have given gifts to 12 different children and each would have chosen him four times in return. Thus far, in the testing of several hundred children, the highest score has been 1.89, which was earned by a child who considered everyone his friend and who, in return, was considered a very special friend by almost everyone in his peer group.

Unpublished Manuscript June 1971 APPENDIX E

ATTENTION SPAN OBSERVATIONS

The behavior of each child was recorded continuously at thirty-second intervals for three five-minute periods. During each observation the following were noted: name of activity; type play by social quality, i.e., solo, parallel, associative, or cooperative; companions; and type verbalization. The described play was recorded on a form (Figure 4) which includes spaces for the child's name, code number, age, and the date of each observation. Each of the observations was made during a time while the child was engaged in a self-selected activity. At least one observation was made during an outdoor play period and one was made during an indoor play period; the third observation was made either indoors or outside. There was an interval of at least one week between observations of each child.

The attention span score is a numberical count of the total number of times the child changed activities. This total includes the changes during each of the three observations. The higher the attention span score is, the shorter the child's attention span is. That is, a child who engages in many activities during a limited period of time spends a short average length of time with each activity.

A completed Attention Span Observation form is included in Figure 4. The child whose activity was recorded on this form engaged in 18 activities during 15 minutes; this means he spent an average of .83 minutes doing each activity.

ATTENTION SPAN OBSERVATION

Name Boy 10	Sex <u>M</u>	Code Number M-10
Score 18	Age 4:5	Testing Place_Fayetteville
Inside	Outside	Third Observation
October 21, 1976	Sept. 21, 1976	Nov. 10, 1976
1:45 sensory play with play dough, no verbalization;	across playground solo	1:15 fingerpainting, solo, no verbalization
// Tracy, Tommy, Tchr.	3:00.5 same	1:15.5 same
1:45.5 same 1:46 Look and talk	3:01 Held cart while Tommy put sand in	1:16 wash hands, hug tchr., no verb.
to self in mirror	cart; no verb.	1:16.5 same
1:46.5 Hitting mirror, solo, no verb.	3:01.5 same 3:02 Dumps sand from cart, solo,	1:17 Wash hair in washing machine, solo, no verb.
1:47 Swept science	no verb.	1:17.5 same
pictures on floor, solo, no verb.	3:03.5 Runs across playyard with cart, solo, no verb.	1:18 Tackles Leesha, no verbalization.
1:47.5 Climbs ladder and slides down slide, solo, no verb.	3:04 Ran inside to use toilet, solo	1:18.5 Runs to C.A. Rm., solo, no verb.
	verbalization	1:19 Runs to block rm., solo, no verb.
1:48 Helps tchr. pick up science materials some verb.	3:04.5 Same	1:19.5 Rocking and balancing on hollow block, solo, no verb.
1:48.5 Pinch Debbie, No verb.		
7 Activity Changes	4 Activity Changes	7 Activity Changes

Figure 4. A Completed Attention Span Observation Form.

APPENDIX F

DESCRIPTIVE DATA FROM TELEVISION-VIEWING INVENTORY

The tables in this section provide a complete listing of all programs available in the Fayetteville, Arkansas, viewing area during the two weeks that the Television-Viewing Inventory forms were used. Each day's listing provides the date of the listing, the hour the program was presented, the length of the program, the name of the program, the type of the program, and the number of children who watched that particular program.

The programs are grouped by weeks with all of the programs offered during the first Television-Viewing Inventory recording week listed together followed by those programs offered during the second Television-Viewing Inventory recording week. The number of programs available was greater during the second recording period because of a change by the television cable company resulting in an increased number of channels available.

TABLE XVIII

PROGRAMS AVAILABLE FOR VIEWING DURING THE WEEKS OF SEPTEMBER 17-23, 1976 AND NOVEMBER 12-18, 1976

COGe	Length				Times	mber 1	Length				Times
No .	Minutes	Time	Program	Type	Viewed	No.	Minutes	Time	Program	Type	Vieve
0001	120	7100	Today	4	3	10051	60	3:30	Sesame Street	12	4
0002	60	7 :00	CBS Nevs	4	o	10052	30	3:30	Gilligan's Island	8	4
0003	120	7 :00	Good Horning, America	4	o ·	10053	30	3:30	Sevi tched	8	1
0004	30	7:30	Morning Show	4	0	10054	60	4:00	Gunsmoke	1.	1
0005	60	8:00	Captein Kangaroo	12	14	10055	30	4:00	Leave It to Beaver	7	2
0006	30	8:00	Cartoon Circus	2	8	10056	30	4100	Mickey Mouse Club	13	1
10007	30	9:00	Sanford and Son	8	o	10057	30	4100	Partridge Family	8	4
0008	30	9:00	Price Is Right	3	1	10058	60	4100	Dinah	10	0
10009	90	9:00	Movie	5	2	10059	30	4:30	Andy Griffith	8	0
10010	60	9:00	Sesame Street	12	15	10060	30	4:30	Beverly Hillbillies	8	0
0011	30	9:30	Celebrity Sweepstakes	3	0	10061	30 .	4:30	Gilligan's Island		9
10012	30	10:00	Wheel of Fortune	3	o	10062	30	4:30	Electric Company	12	2
10013	30	10:00	Gambit	3	o	10063	30	4:30	Lucy Show	8	1
10014	30	10:00	Electric Company	12	4	10064	30 30	5100	News	•	, 0
10015	30	10:00	Ryan's Hope	7	0	10065		5100	Rogan's Heroes	1 8	0
10016	30	10:30	Hollywood Squares	3	0	10066	30	5:00	Family Affair	-	1
10017	30	10:30	Love of Life	7	o	10067	30 30	5:00 5:00	Zoom	13	. 1
0018	30	10:30	Happy Days	8		10068			Gomer Pyle, U.S.M.C.		1
100 19	30	11:00	Fun Factory	3	1	10069	30	5:30 6:00	News	:	2 1
100 20	30	11:00	Young and the Restless	7	o	10070 10071	30	6:00	Nevs Hogen's Heroes	1	1
100 21	30	11:00	Hot Seat	3	1	10071	30	6:30			3
100 22	30	11:00	Crockett's Victory Carden	4	0	10072	30	6:30	My Three Sons That Good Ole Nashville Musi		,
100 23	30	11:30	Cong Show	3	1	10074	30	6:30	Adam-12		2
100 24	30	11:30	Search for Tomorrow	7	o					3	0
100 25	30	11:30	Helody Natinee	10	0	10075 10076	30 30	6:30 7:00	Let's Make a Deal		2
100 26	30	11:30	All My Children	7	o				Saturday Morning Parade	13	2
100 27	30	12:00	Neva	4	0	10077	90	7 :00	Everybody Rides a Carousel	2	6
100 28	30	12:00	Ryan's Hope	7	1	10078 10079	60	7:00	ABC Sat. Speak Peek	13	0
100 29	30	12:00	Woman	4	0		30	7 100	Washington Week in Review	4	U
100 30	60	12:30	Days of Our Lives	7	0	10080	30	7 : 30	Sanford and Son	8	0
100 31	60	12:30	As the World Turns	7	0	10081	60	8:00	Movi e	5	0
100 32	30	12:30	Family Feud	3	0	10082	30	8:00	Wild Kingdom	4	1
100 33	30	1:00	\$20,000 Pyramid	3	1	10083	30	8:00	U.S.A.: People and Politics	4	0
100 34	60	1:00	Special of the Week	4	0	10084	120	8:00	Movie	5	3
100 35	30	1:30	Doctors	7	1	10085	90	8:30	Howle	5	1
100 36	30	1:30	Guiding Light	7	0	10086	30	8:30	Candid Camera	3	0
00 37	30	1:30	One Life to Live	7	0	10087	30	9:30	American Indian	4	0
100 38	30	2:00	Another World	7	1	10088	60	9:00	Billy Graham Crusade	11	0
100 39	30	2:00	All in the Family	В	3	10089	60 30	9:00	Pat Boone	10	0
D040	30	2100	Electric Company	12	2		90	10:00	News	4	0
10041	45	2:15	General Hospital	7	0	10091		10:30	Johnny Carson	10	0
10042	30	2130	Match Game	. ,	1	10092 10093	15 120	10:30	Tennis Kighlights	9	0
10043	30	3:00	Somerset	7	1	10093		10:30	Movie	5	0
10044	60	3:00	Dinah	10	0	10094	30 1 2 0	10:30	Perry Mason	6	1
10045	30	3:00	Edge of Night	7	0			10:45	Movie	5	.0
10046	30	3100	Tattletales	3	0	10096	30	10:45	Mary Hertman, Mary Hertman	7	0
10047	30	3:00	Mister Rogers	12	•	10097	30 30	11:15	Untouchables	6	O
10048	30	3:30	Gong Show	3	1	10098 10099	90	11:30 12:00	Rookies	6	0
10049	30	3:30	Lost Saucer	13	0	10099	70	12:00	Midnight Special	10	0
10050	30	3:30	Uncle Zeh's Certoon Camp	.,	11				t.		

			Satu	rday,	Sep	tember	18,	197	76		
Cade No.	Langth Minutes	Time	Program	Тура	Tives Viewed	Code No.	Length Minutes	Tine	Progr a	Туре	Times Vi ove
11001	30	7 100	Woody Woodpecker	2	1	11041	30	1:30	Gupples to Groupers	4	0
11002	30	7:00	Sylvester and Tweety	2	3	11042	30	1:30	Big Blue Marble	12	
11003	60	7 100	Tom & Jerry/Grape Ape	2	2	11043	180	2:00	U.S. Open Tennis	,	
11004	30	7:30	Pink Penther	2	6	11044	30	2:30	Grestest Earth on Show	4	
11005	60	7:30	Bugs Bunny/Road Runner	2	÷,	11045	120	3100	College Football	•	ī
11006	30	5100	Jabberjaw	. 2		11046	30	3130	Cinema Showcase	5	
11007	30	8130	Terzan	1 .	3	11047	60	4:00	Wrestling	. •	
11008	60	8:30	Scooby Doo/Dynomutt	2	10	11048	60	4100	Olympiad	4	0
11009	30	9:00	McDuff, the Talking Dog	2	5	11049	30	5100	30 Himutes	4	0
11010	60	9100	Shazam/Isia	1	6	11050	30	5100	Mashville on the Road	10	0
11011	30	9:30	Honster Squad	. 8	3	11051	60	5:00	Upstairs, Downstairs	7	
11012	90	9:30	Krofft Supershow	2	4	11052	30	5130	Henra	4	
11013	30	10:00	Land of the Lost		6	11053	30	5130	Porter Wagoner	10	
11014	30	10:00	Ark II		1	11054	60	6100	Hee Hew	10	i
1015	30	10:00	Electric Company	12	5	11055	60	6:00	Firing Line		
1016	30	10:30	Big John, Little John	. 8	i	11056	60	6100	Wagon Train	•	ĭ
1017	30	10:30	Clue Club	2	2	11057	30	6130	Heres	•	
1018	30	10:30	Mister Rogers	12	3	11058	30	6130	Viva Valder		
11019	30	11:00	Kids from C.A.P.E.R.		0	11059	60	7:00	Emergency	,	,
1020	30	11:00	Fat Albert	2	6	11060	30	7:00	Jeffersons	ì	;
1021	30	11:00	Almost Anything Gode	3		11061	30	7100	Shark Documentary	4	:
1022	30	11:00	Zoom	~~~13 -	2	11062	" "to" "	7 100	At the Top	- 10	
1623	30	11:30	Muggsy		0	11063	30	7 130	Irem the Terrible		3
1024	30	11:30	Way Dut Games	3	2	11064	90	7130	Havi e	5	,
1025	60	11:30	American Bandatand	10	•	11065	60	\$100	Perry Como	10	1
1026	30	12:00	Not Fudge	13	0	11066	30	8100	Hary Tyler Hoore	8	,
1027	30	12:00	Fun Club	13	1	11067	110	8100	Hovi s	5	í
1025	60	12100	Children's Film Festivel	5.	5	11068	30	8130	Bob Kewhart		;
1029	30	12:00	Banjo	4		11069	120	9100	Miss America Pageant	10	,
1030	30	12130	Sounds of Liberty	4		11070	40	9100	Riako	. 6	
1031	60	12:30	Children's Special	4		11071	60	9:00	Oral Roberts	11	ĭ
1032	30	12:30	ASA's Sports World	9	ò	11072	60	9100	Lawrence Welk	10	
1633	30	12:30	Gomer Pyle, U.S.M.C.	8	0	11073	. 30	10:00	News	4	
1034	150	1:00	Grandstand	9	0	11074	120	10:30	No v1 €	5	,
1035	30	1:00	What's Exprenius	8	ō	11075	90	11:30	Saturday Night Comedy	10	1
1036	30	1:00	Who, What, How Show	4	ō	11076	60	11:30	Baretta	6	
1037	30	1:00	Partridge Family	8	2						•
1038	30	1:00	Wally's Workshop	4	ō						
1039	105	1:15	Baseball	•	ō						
1040	90	1:30	Wide World of Sporte		i						

TABLE XVIII (CONTINUED)

				Sunday,	Sept	ember	19,	1976)		
Code Ho.	Length Minutes	Tine	Program	Туре	Times Viewed	Code No.	Length Minutes	Tine	Program	Туре	Times Vi ev e
12001	60	7:00	Jerry Falwell	11	0	12035	150	3130	U.S. Open Tennis	9	0
12002	30	7100	Cartoon Circus	2	•	12036	90	3:30	Novie	5	0
12003	30	7 100	Groovie Goolies	2	•	12037	30	4:00	Golden Hurricane Football	9	ō
12004	30	7 : 30	Religion	11	•	12038	30	4:00	Gershwin	4	
12005	30	7130	These are the Days	2	1	12039	60	4130	Frank Sroyles	,	Ö
12006	30	8:00	Religion	11	•	12040	. 30	4130	Crockett's Garden		0
12007	30	8:30	Religion	11	1	12041	60	5:00	Oklahoma Football	:	ō
12008	30	9:00	Religion	11	0	12042	30	5100	American Life Style	í	٥
12009	30	9:30	Raligion	11	0	12043	30	5100	Kews	7	1
12010	30	20:00	Religion	11	0	12044	30	5:30	\$25,000 Pyramid		2
12011	30	10:00	Camera Three	4	0	12045	60	6100	World of Disney	:	÷,
12012	30	10:30	Religion	11	0	12046	60	6100	60 Minutes	į	
12013	30	10:30	Nest the Press	4	0	12047	60	6100	Howie	ì	5
17014	30	11:00	Religion .	11	0	12048	60	6100	Nova	,	
12015	30	11:00	Book shelf	14	ó	12049	60	7:00	Ellery Queen	7	
12016	30	11:00	Issues and Answers	4	0	12050	60	7100	Johany Cash	10	ō
12017	30	11:30	Church Service	11	0	12051	60	7:00	Six Million Dollar Men	6	14
12018	30	11130	Grandstand	,	0	12052	60	7:00	Evening at the Pops	i	
12019	30	11:30	Insight	8		12053	90	8100	Columbo	-	i
12020	30	12:00	Good Life	8	0	12054	60	8 ±00	Kojak	6	i
12021	30	12:00	Face the Nation	4	~··· 0	12055	90	8100	Nevie	3	
12022	60	12:00	Big Valley	•	0	12056	60	8100	Masterpiece Theatre	í	0
12023	60	12100	College Football '	76 9	0	12057	60	9:00	American Parade		0
12024	30	12:30	Rony and Susan Ale	= 0 11	0	12058	120	9:00	Theater in America		0
12025	30	12:30	NFL Today	,	o`	12059	30	9:30	Campaign and the Candidates	4	n
12026	150	1:00	NFL Football	,	0	12060	30	9:30	Battle for the White House	4	0
12027	90	1:00	Movi e	3	3	12061	30	10:00	Kewa	1	0
12028	120	1:00	Leonard Bernstein	4	0	12062	110	10:30	Jerry Levis Movie	5	0
12029	60	1:00	College Football	•	0	12063	30	10:30	Ironside	6	
12030	90	2100	Hovi e	5	1	12064	30	10:30	Football	,	0
12031	90	2:30	Hovie	5	4	12065	60	11:00	Starsky and Hutch	6	
12032	60	3:00	Gerstwin	4	0	12066	90	11:00	Virginian	8	٥
12033	180	3:00	U.S. Open Tennis	•	0	12067	30	11:00	Jeffersons	8	0
12034	150	3:30	NFL Football	9	0					-	٠

Monday, September 20, 1976

Code No.	Length Minutes	Time	Frogram	Type	Times Vi eved	Code No.	Length Minutes	Time	Program	Type	Times Viewe
13001	120	7:00	Today		2	13044	30	3:00	Hister Rogers	12	1
13002	60	7100	Xeva	7	o	13045	30	3:30	Cong Show	3	0
3003	120	7100	Good Morning, America	7		13046	30	3130	These Are the Days	2	0
3004	30	7:30	Morning Show	4	1	13047	30	3130	Uncle Zeb's Cartoon Camp	2	12
13005	60	8100	Captain Kangaron	12	ŝ	13048	60	3:30	Sesame Street	12	3
13006	30	8:00	Cartoon Circus	2	,	13049	30	3:30	Gilligan's Island	8	4
3007	30	9100	Sanford and Son		ó.	13050	30	3130	Bewi tched	8	0
3008	30	9:00	Price Is Right	. 3	o	13051	. 60	4:00	Gunswoke	1.	2
3009	90	9:00	Hovie		ó	13052	30	4:00	Leave it to Beaver		0
3010	60	9100	Sasame Street	12	. 11	13053	30	4:00	Hickey House Club	13	1
13011	30	9130	Celebrity Sweepstakes	3	•	13054	30	4:00	Adam-12	6	1
3012	30	10:00	Wheel of Fortune	3.	1	13055	90	4100	Dinah	10	0
13013	30	10:00	Gambit	, ,	0,	13056	30	4:30	Andy Griffith	8	0
13014	30	10:00	Electric Company	12	1	13057	30	4130	Beverly Hillbillies		1
13015	30	10100	Lyan's Rope	7	. 0	13058	. 30	4130	Gilligan's Island	8	8
13016	30	10:30	Hollywood Squares	3	0	13059	30	4:30	Electric Company	12	3
13016 13017	30	10:30	Love of Life	- 7	0	13069	60	4130	Marcus Welby		0
3017	30	10:30	Happy Days	. ,		13061	30	5:00	Heres	. 4	
3019	30	11:00	Fun Factory	;	2	13062	30	5100	Rogan's Merces	1	•
3070	30	11:00	Young and the Restless	7	0	13063	30	5:00	Family Affair	8	1
3020	30	11:00	Hot Seat	3	0	13064	30	5100	Zoom	13	4
	60	11400			2 .	13065	30 -	5130	Kensa	. 4	
13022 13023	30	11:30	Olympiad	4	0,,	13066	30	6100	News	4	0
			Gong Show	3	2	13067	30	6100	Hogan's Reroes	1	1
13024 13025	30	11:130	Search for Tomorrow	7	0	13068	30	6:30	My Three Sons		1
3026		∌ fi :30	Melody Matinee	10	0	13069	150	6:30	Howi e	5	15
3026	30	11:30	All My Children	7	0	13070	30	6:30	Wild Kingdom	4	•
	30	12:00	Nevs	4	0	13071	30	6130	Adam-12	6	0
3028 3029	30	12:00	Ryan'a Hope	,	3	13072	30	6:30	Buck Owens	10	0
3030	60	12130	Days of Our Lives	,	•	13073	120	7 :00	Howl e	5	4
3031	60 30	12:30 12:30	As the World Turns	7	0 .	13074	60 .	7:00	College Football Freview	. 9	0
			Faudly Feud	-	1	13075	60	7 100	Inside ABC Television	10	1
3032	30	1:00	\$20,000 Pyrauid	3	0	13076	30	7:00	Over Easy	10	
3033	30	1:30	Doctors	7	1	13077	38	7130	Patrick Heary	4	ı
3034 3035	30	1 130	Guiding Light		•	13078	180	8:00	NFL Football	,	
	30	1:30	One Life to Live	7	0	13079	170	8:00	Welfare	4	0
3036	30	2100	Another World	7	0	13080	60	9100	Jigsaw John		1
3037	30	2100	All in the Family		1	13081	60	9:00	Kathryn Kuhlman	11	
3038	30	2100	Electric Company	12	•	13082	30	9100	All in the Family	8	0
3039	45	2:15	General Hospital	7	0	13083	30	9130	Maude		-
3040	30	2:30	Match Game	3	0	13084	30	10:00	Nevs	•	0
13041	90	3:00	Dinah	10	c	13065	90	10:30	Johnny Carson	4	0
3042	30	3:00	Edge of Night	7	0	.3003		10.30	Somethy Caraon	10	0
13043	30	3100	Tattletales	3							

TABLE XVIII, (CONTINUED)

			Tue	sday,	, Se	ptember	21,	197	6		
Cede No.	Length Minutes	Time	Program	Type	Times Viewed	Cade No.	Length Minutes	Time	Program	Туре	Time: View
14001	120	7:00	Today	4	2	14047	30	3:30	Uncle Zeb's Cartoon Camp	2	. 11
14002	60	7:00	CBS News	4	0	14048	60	3:30	Sesame Street	12	3
14003	120	7:00	Good Morning, America	4	0	14049	30	3:30	Gilligan's Island	8	3
14004	30	7:30	Morning Show	4	0	14050	30	3:30	Bewitched	8	. 1
14005	60	8 100	Captain Kangaroo	12		14051	60	4100	Gunsmoke	1	1
14006	30	8:00	Cartoon Circus	2	4	14052	30	4100	Leave It to Beaver	8	1
14007	30	9:00	Sanford and Son	8	0	14053	30	4:00	Hickey Mouse Club	13	1
14008	30	9:00	Price Is Right	. 3	0	14054	30	4:00	Adam-12	6	0
14009	90	9:00	Hovie	5	0	14055	90	4100	Dinsh -	10	. 0
14010	60	9:00	Sesame Street	12	8	14056	30	4:30	Andy Griffith	8	0
14011	30	9:30	Celebrity Sweepstakes	3	0	14057	30	4:30	Beverly Hillbillies	8	1
14012	30	10:00	Wheel of Fortune	3	. 0	14058	30	4130	Gilligen's Island	8	3
140 13	30	10:00	Gambit	3	0	14059	30	4:30	Electric Company	12	3
140 14	30	10:00	Electric Company	12	0	14060	60	4:30	Marcus Welby		
140 15	30	10:00	Ryan's Hope	7	0	14061	30	5100	ABC News	4	1
140:15	30	10:30	Hollywood Squares	3	0	14062	30	5:00	Hogan's Heroes	1	0
140 17	30	10:30	Love of Life	7	0	14063	30	5100	Family Affair	8	ō
140 18	30	10:30	Happy Days	8	2	14064	30	5100	Zoom	13	2
140 19	30	11:00	Fun Factory	3	0	14065	30	5:30	Neva	4	î
140 20	30	11:00	Young and the Restless	7	0	14066	30	6:00	Nevs	4	0
140 21	30	11:00	Hot Seat	3	1	. 14067	30	6:00	Hogan's Heroes	1	2
14022	60	11:00	Evening at the Pops	4.		14068	30	6130	My Three Sons		3
14023	30	11:30	Gong Show	3	2 .	14069	30	6:30	Name That Tune	3	0
14024	30	11:30	Search for Tomorrow	7	0	14070	30	6130	Adam-12	6	3
14025	30	11:30	Melody Matinee	10	0	14071	30	6:30	Tressure Hunt	3	1
14026	30	11:30	All My Children	7	1	14072	30	6130	Last of the Wild	4	1
140 27	30	12:00	News	4	0	14073	60	7:00	Howis' On		1
14028	30	12:00	Ryan's Hope	7	1	14074	30	7:00	Happy Days	ā	10
14029	60	12:30	Days of Our Lives	7	-	14075	30	7:00	Easy Country	10	.0
14030	60	12:30	As the World Turns	7	0	14076	30	7:00	Over Easy	10	٥
140 31	30	12:30	Family Feud	3	1 .	14077	30	7100	H*A*S*B		2
14032	30	1:00	\$20,000 Pyramid	3	•	14078	90	7:30	Movie	3	,
14033	30	1:30	Doctors	7	0	14079	90	7:30	G E Theater		3
14034	30	1:30	Guiding Light	7	0	14080	30	7:30	Shadows on the Grass	4	
14035	30	1:30	One Life to Live	7	0	14061	60	8:00	Police Woman	6	٥
14016	30	2:00	Another World	7		. 14082	60	8:00	Evening at the Pops	4	
14037	30	2100	All in the Family	·	1	14083	60	9:00	Bob Dylan	10	1
14038	30	2100	Electric Company	12	1	14084	60	9:00	Family	8	
14039	45	2115	General Hospital	7		14085	60	9:00	CBS News Special	-	
					-	14086	30	9:00	Special of the Week	10	1
14040	30	2:30	Match Game	3	1	14087	30	10:00	Special of the Week		0
14041	90	3:00	Di nab	10	0	14087	90	10:00		4	1
14042	30	3:00	Edge of Night	7	٥	14088	60	10:30	Johany Carson Kojak	10	0
	30	3:00	Tattletales	3	1	14099	60	10:30	•	-	0
14044	30	3100	Mister Rogers	12	3	14091	60	10:30	Ironside	6	0
14045	30	3:30	Cong Show	3	•		30	10:30	Perry Mason	6	0
14046	30	3:30	Groovie Gaolies	2	1	14092	30	10:30	Mary Hartman, Mary Hartman	7	0

TABLE XVIII (CONTINUED)

iode Io.	Length Minutes	Time	Program	Type	Tipes Viewed	Code No.	Length Minutes	Time	Program	Type	Times Viewe
5001	120	7:00	Today	4	2	15044	30	3100	Nister Rosers	12	2
5002	60	7:00	CBS News	4	0	15045	30	3:30	Gong Show	3	0
5003	120	7:00	Good Morning, America	4	0	15046	30	3130	Speed Buggy	2	1
5004	30	7:30	Morning Show	4	•	15047	30	3130	Uncle Zeb's Cartoons	2	11
5005	60	8:00	Captain Kangaroo	12	8	15048	60	3:30	Sesame Street	12	3
5006	30	8:00	Cartoon Circus	2	3	15049	30	3:30	Gilligen's Island		3
5007	30	9:00	Senford and Son	8	0	15050	30	3:30	Bevitched	8	0
8008	30	9:00	Price Is Right	3	0	15051	30	4:00	Gunawoke	. 1	0
5009	90	9100	Hovi e	5	0	15052	30	4:00	Leave It to Beaver	8	0
5010	60	9:00	Sessme Street	12	10	15053	30	4100	Mickey Mouse Club	13	1
5011	30	9 + 30	Celebrity Sweepstakes	3	0	15054	30	4:00	Adm-12	6	0
5012	30	10:00	Wheel of Fortune	3	0	15055	90	4:00	Dinab	10	0
5013	30	10:00	G-bit	3	0	15056	30	4130	Andy Griffith	8	0
5014	30	10:00	Electric Company	12	Ö	15057	30	4:30	Beverly Hillbillies	8	0
5015	30	10:00	Ryan's Hope	7	0	15058	30	4:30	Gilligen's Island	8	4
5016 5017	30	10:30	Hellywood Squares	3	0	15059	30	4130	Electric Company	12	. ,
5018	30	10:30	Love of Life	7	ъ	15060	60	4:30	Marcus Welby		
M018	30	10:30	Mappy Days	•	,	15061	30	5100	News	4	
	30	11:00	Fun Factory	3	. 0	15062	30	5100	Hogan's Merces	. 8	
5020 5021	.30	11:00	Young and the Restless	7	0	15063	30	5:00	Family Affair	8	- 7
5022	30 30	11:00	Not Seat	3	. 1	15064	30	5:00	Zoom	13	
5023	30	11:00	USA: Feople and Politica	4	0	15065	30	5130	Nevs	4	- 7
5074	30	11:30	Gong Show	3	1	15066	30	6:00	Nevs	4	
5025	30	11:30	Search for Tomorrow	7	•	15067	30	6100	Bogan's Heroes	1	1
5026	30	11:30	Helody Matinee	10	0	15068	30	6130	My Three Sons	8	3
5026 5027	30	12:00	All My Children	7	0	15069	30	6:30	Wild, Wild World of Animals	4	1
5027 5028	30	12:00	News	4	•	15070	30	6130	Adam-12	6	2
5028 5029	60	12:00	Rysa's Hope	7	0	15071	30	6:30	Match Game	3	0
1029 1030	60	12:30	Days of Our Lives	7	o .	15072	30	6:30	Let's Make a Deal	3	1
W31	30	12:30	As the World Turns	7	1 '	- 15073	60 -	7 :00	Little Nouse on the Prairie	8	5
iO32	30	1100	Family Feud	3	1	15074	30	7 100	Bert Conwy	10	1
W33	30	1:30	\$20,000 Fyremid	3	0	15075	60	7 100	Biomic Woman	6	5
1034	30	1:30	Doctors	7	0	15076	60	7100	Nova	4	٥
035	30	1:30	Guiding Light	7	1	15077	30	7:30	Frankie Avalon	10	1
036	30	2:00	One Life to Live	7	0	15078	120	8100	Morie	5	2
037	30		Another World	7	•	15079	120	8:00	Movi e	5	2
038		2:00	All in the Family	•	0	15080	60	8100	Baretta		1
	30	2:00	Electric Company	12	2	15081	30	8:00	Legacy Americana	•	
039	45	2:15	General Hospital	7	. 0	15082	30	8+30	Consumer Survival Kit		•
040	30	2:30	Match Game	3	٥	15083	60	9:00	Stersky and Rutch	•	0
041	90	3:00	Dinah	10	0	15084	30	10:00	News	6	3
240	30	3 2 00	Edge of Night	7	0	15085	90	10:30	Johnny Carson		0
743	30	3:00	Tattletales	3	. 0	15086	60	-0.30	-ounty tarson	10	0

			Thur	sday	, Se	ptem	ber	23,	197	76		
Code No.	Length Minutes	Time	Program	Type	Times Viewed	•	Code No.	Length Minutes	Time	Program	Type	Ti=e: View
16001	120	7:00	Today	4	1		16044	30	3100	Mister Rogers	12	2
6002	60	7:00	CBS News	À	•		16045	30	3:30	Gong Show	3	. 0
6003	120	7:00	Good Morning, America		ō		16046	30	3130	Advantures of Gilligan		0
16004	30	7:30	Morning Show	4			16047	30	3+30	Uncle Zeb's Cartoon Camp	2	,
16005	60	8:00	Captain Kangaroo	12	7		16048	60	3130	Segme Street	12	3
6006	30	8:00	Cartoon Circus	2	5		16049	30	3130	Gilligan's Island		2
6007	30	9:00	Sanford and Son		ó		- 16050	30	3130	Sevi tched		0
6008	30	9:00	Price Is Right	3			16051	60	4100	Cunamoka	1	٥
6009	90	9:00	Hovie	5	0		16052	30	4100	Leave It to Beaver	- 8	0
6010	60	9:00	Sesame Street	12	,		16053	30	4:00	Mickey Mouse Club	13	0
6011	30	9:30	Celebrity Sweepstakes	3	ó		16054	30	4100	Adm-12	6	2
6012	30	10:00	Wheel of Fortune	3	ò		16055	90	4100	Dinah	10	0
6013	30	10:00	Gambit	3	0		16056	30	4:30	Andy Griffith	8	
6014	30	10:00	Electric Company	12	ŏ		16057	30	4130	Beverly Hillbillies	8	
6015	30	10:00	Ryan's Hope	,	ō		16058	30	4130	Gilligan's Island	5	
6016	30	10:30	Hollywood Squares	. 3	0		16059	30	4:30	Electric Company	12	
6017	30	10:30	Love of Life	,	٥		16060	60	4:30	Marcus Welby	8	0
6018	30	10:30	Happy Days	8	2		16061	30	5:00	News	4	0
6019	30	11:00	Fun Factory	3	0		16062	30	5100	Hogan's Heroes	1	ō
6020	30	11:00	Young and the Restless	,	0		16063	30	5100	Family Affair	8	0
6021	30	11:00	Hot Seat	3	0		16064	30	5100	Zoom	13	1
6022	60	11:00	Nova	4	1		16065	30	5:30	Xevs	4	0
6023	30	11:30	Gong Show	3	1		16066	30	6:00	Nevs	4	
6024	30	11:30	Search for Tomorrow	7	0		16067	30	6100	Hogan's Heroes	1	0
6025	30	11:30	Melady Matines	10	0		16068	30	6:30	My Three Sons	8	0
6026	30	11:30	All My Children	7	-		16069	30	6:30	Pop Goes the Country	10	ŏ
6027	30	12:00	News		0		16070	30	6130	Adam-12	6	1
6028	30	12:00	Ryan's Hope	7	0		16071	30	6:30	Buck Owens	10	0
6929	60	12130	Days of Our Lives	,	0		16072	30	6:30	Wollywood Squares	3	1
6930	60	12:30	As the World Turns	,			16073	60	7 100	Trial by Wilderness	4	0
6031	30	12:30	Family Feud	3	0 ,		16074	60	7 100	The Waltons	8	0
66 32	30	1:00	\$20,000 Pyramid	3	0		16075	30	7100	Welcome Back, Kotter	8	3
6033	30	1:30	Doctors	,	0		16076	60	7 #00	Opstairs, Downstairs		0
6034	30	1:30	Guiding Light	,	0		16077	60	7130	Barney Hiller	6	1
6035	30	1:30	One Life to Live	7	0		16078	120	5:00	Novie	5	1
6036	30	2:00	Another World	,	0		16079	120	8100	Hawaii Five-O		
037	30	2:00	All in the Family		0		16080	60	8100		· ·	ī
6038	30	2100	Electric Company		1		16081	30	8100	Streets of San Franciaco Best of Burns and Allen	10	•
039	45	2115	General Hospital	12	2		16082	30	8:30	Caught in the Act	10	
040	30	2:00	Match Game	7	0		16083	60	9:00	Streets of San Francisco	6	
041				3	1		16084	30	10:00	News	4	
042	90 30	3:00	Dinah	10	0		16085	90	10:30	Johnny Carson	10	
043	30	3:00	Edge of Hight	7	0			70	10.30	Johnsy Carson	10	
-	30	3100	Tattletales	3 ·	0							

ode o.	Length Minutes	Time	Program	Туре	Times Viewed	Code No.	Length Minutes	Time	Program	Type	Ti we
0001	120	7:00	Today	4	3	20049	30	3130	Flintstones	8	0
0002	60	7:00	CBS News	4	1	20050	30	3:30	Jr. Almost Anything Goes	. 3	
00003	120	7 :00	Good Morning, America	4	0	20051	30	3:30	Family Affair	í	1
0004	30	7130	Morning Show	4	0	20052	60	3:30	Uncle Zeb's Cartoom Circus	13	0
0005	60	8:00	Captein Kangeroo	12	. 7	20053	30	3130	Gilligan's Island		12
0006	60	B:00	Sesame Street	12	5	20054	30	3130	levitched		1
0007	30	8:00	Cartoon Circus	. 2	6	20055	60	4:00	Gunsmoke	-	1
0008	30	9:00	Sanford and Son	81	•	20056	30	4:00	Partridge Family	1	, (
0009	30	9:00	Price In Right	3	0	20057	30	4:00	Little Rescale	13	. 1
9010	90	9:00	Kevie	5	0 '	20058	30	4100	To Tell the Truth	3	2
0011	30	9:00	Electric Company	12	5	20059	30	4100	Kickey House Club	-	1
0012	30	9:30	Wollywood Squares	3		20060	30	4:00		13	
0013	30	10:00	Wheel of Fortune	. 3	á	20061	30	4:00	Mergency One Adam-12	1	1
1014	30	10:00	Gambi t	3	o	20062	90	4100		6	(
015	30	10:00	Ryan's Rope	7	o	20063	30		Dinah	10	
016	30	10:30	Stumpers	ŝ		20064	30	4:30	Andy Griffith		1
017	30	10:30	Love of Life	, ,	0	20065	30	4:30	Bewitched		3
018	30	10:30	Happy Days	i		20066	60	4:30	Brady Bunch		1
019	30	11:00	50 Grand Slam	3	. 4	20067		4130	Ironside	6	1
020	60	11:00	Mary Griffin	10	0	20067 20068	30	4130	Emergency One	1	1
021	30	11:00	Young and the Restless	7	1		30	4130	Electric Company	12	4
022	30	11:00	Don Ro	3	0	20069	60	4130	Marcus Welby	. 8	
023	30	11:30	Gong Show	3	1	20070	30	5:00	Xees	4 .	1
024	30	11:30	Search for Tomorrow	-	1	20071	30	5100	Mogan's Heroes	ı	1
025	30	11130	Helody Matinee	7	0	20072	30	5100	Zoom	13	1
026	30	11130	All My Children	10	0	20073	60	5100	Sessme Street	12	•
027	30	12100	Nevs	7	0	20074	30	5:30	Xees	4 -	2
028	30	12:00		4	1	20075	30	5130	Villa Alegre	13	,
029	60	12:30	Ryan's Hope	7	0	20076	30 .	6:00	Xeres	4	i
330	60	12130	Days of Our Lives	7	0	20077	60	6:00	mergency One	1	2
031	30		As the World Turns	7	2 .	20078	30	6:30	My Three Sons	i	,
32	30	12:30	Family Feud	3	1	20079	30	6130	Tast Good Ole Nashville Musi	r 10	0
032	30		\$20,000 Pyramid	3	0	20080	30	6130	Adem-12		
)34	30	1:30	Doctors	7	1	20081	30	6:30	Srady Bunch		0
		1:30	Guiding Light	7	0	20082	30	6:30	Break the Bank	3	1
)35)36	30	1:30	One Life to Live	7	0	20083	30	7100	Sanford and Son	•	-
	30	1:30	Our Story	4	0	20084	60	7:00	Spencer's Pilots		2
37	30	2100	Another World	7	1	20085	60	7100	Donny and Marie	10	1
38	30	2:00	All is the Family		1	20086	60	7:00	Washington Week in Review	4	14
39	30	2100	Electric Company	12	0	20087	30	7:30	Chico and the Man	:	0
140 -	45	2:15	General Rospital	7	0	20088	30	8 +00	Rockford Files	6	4
41	30	2:30	Match Game	3	1	20089	120	8:00	Hovie	-	2
42	30	3:00	Somermet	7	0	20090	60	8:00	Documentary	5	3
43	30	3:00	That Girl	8	0	-20091	95	8:00	Howie	4	0
44	90	3100	Dinah	10	0	20092	60	8:30	Serpico	5	0
45	30	3:00	Edge of Night	7	0	20093	30	10:00	Neva Neva	6	0
46	30	3:00	Tettletales	3	-	20094	90	10:30		4	0
47	60	3100	Sesame Street	12	0	20095	120	10:30	Johnny Carson	10	0
	30	3:30	Gong Show	12	7	20096	-20	.0.30	Movie	5	n

TABLE XVIII (CONTINUED)

			Satu	ırda	y, Nove	mber	13,	197	6		
Code No.	Length Minutes	Time	Program	Type	Times Viewed	Code No.	Length Minutes	Time	Program	Type	Time: View
21001	30	6:30	Time for Timothy	8	0	21050	. 90	2:30	Howi e	5	1
21002	30	6:30	Big Blue Marble	12	1	21051	30	2:30	Nashwille on the Road	10	0
21003	30	7100	Woody Woodpecker	2	1	21052	30	2 * 30	Pianoplay	4	0
21004	30	7:00	Sylvester and Tweety	2.	2	21053	60	3100	Wrestling	,	0
21005	60	7:00	Tom & Jerry/Grape Ape	. 2	2	21054	150	3:00	College Football	,	4
21006	90	7:30	Pink Panther	2	16	21055	. 30	3100	That Good Ole Nashwille Music	10	0
21007	30	7:30	Clue Club	2	0	21056	30	3:00	Last of the Wild	4	0
21008	60	8:00	Bugs Bunny/Road Runner	2	7	21057	30	3:30	Buck Owens	10	0
21009	30	8:00	Jabberjaw	2	2	21058	120	3:30	Sports Spectacular	9	0
21010	60	8:00	Sesame Street	12	3	21059	30	4:00	Nashwille on the Road	10	0
21011	60	8130	Scooky-Doo/Dynomatt	2	5	21060	30	4:00	Porter Waggoner	10	0
21012	30	9:00	McDuff, the Talking Dog	8	10	21061	60	4100	Music Hall America	10	0
21013	30	9:00	Tarzen	1	3	21062	60	4100	Adms Chronicles	4	0
21014	30	9:00	Ouce Upon a Classic	8	ō	21063	30	4:30	That Good Old Nashville Music	10	2
21015	30	9:30	Honster Squad		9	21064	30	4:30	Dolly	10	0
1016	60	9:30	Shazam/Isis	1	4	21065	30	5:00	Porter Waggoner	10	1
1017	60	9130	In Conquest of the Ses	4	1	21066	30	5:00	Dolly	10	1
1018	30	9:30	Zoom	13	3	21067	60	5:00	Once Upon a Classic		-
21019	90	9:30	Krofft Supershow	13		21068	30	5130	News	4	
1020	30	10:00	Land of the Lost	8	7	21069	30	5:30	Porter Waggoner	10	
1021	30	10:00	Infinity Factory	13	0 1	21070	30	5:30	Zoom	13	2
1022	30	10:00	Discovery		0	21071	30	5130	Wagon Train	1	
1023	30	10:30	Big John, Little John	8	2	21072	30	6:00	News	ā	,
1024	30	10:30	Ark II	8	•	21073	60	6:00	Hee Haw	10	-
1025	30	10:30	Jim Stanley: Football		0	21074	60	6100	Lawrence Welk	10	
1026	30	10:30	Rebop	12	0	21075	30	6:00	Rebop	12	ċ
1027	30	11:00	Kids from C.A.P.E.R.	8	,	21076	30	6:30	Andy Williams	10	
1028	30	11:00	Fat Albert	2		21077	30	6130	Delly	10	Ċ
1029	30	11:00	Larry Lacewell: Football	9	-	21078	30	6:30	Celebrity Sweepstakes	3	
1030	30	11:00	Carrascolendas	13	1	21079	60	6130	Once Upon a Classic	8	
1031	30	11:00	Jr. Almost Anything Goes	3	2	21080	60	7:00	Emergency	1	
1032	30	11:00	Discovery	4	0	21081	30	7:00	Mary Tyler Moore		6
1033	30	11:30	Huggey		3	21082	30	7100	Holmes and Yoyo	8	
1034	210	11:30	College Football .	Ţ	2	21083	30	7:30	Bob Newhart	8	
1035	30	11:30	Way Out Games	3	2 2	21084	30	7:30	What's Rappening	ě	1
1036	60	12:00	Wrestling	•		21085	120	7:30	Keat	Ä	
1037	60	12:00	Children's Hour	8	0	21086	120	8:00	Hovie	5	1
1038	30	12:00	-	-	1	21087	30	8100	All in the Family	Á	,
1039	30	12:00	Rot Fudge Pan Club	12	0	21088	120	8100	Battle of the Network Stars	10	7
1040	90			13	0	21089	30	8130	Alice	8	í
1040	90	12:00	Children's Film Festival	3	. 2	21090	90	8:30	Movie	5	
1042	30	1:00	Hovie	5	0	21091	60	9100	Carol Burnett	10	2
1042	30	1:00	ARA's Sports World	9	0	21092	30	10:00	News	4	1
1043	30	1:30	David Niven's World	4	0	21093	60	10:00	Soundstage	10	1
		1:30	Who, What, How Do You Know	12	0	21094	60	10:30	F.B.I.	6	
1045 1046	60 60	1:30	Wrestling	•	0	21095	90	10:30	Saturday Night	10	0
			Gupples to Groupers	4	0	21096	60	10:30	Baretta		-
1047	30	1 130	Big Blue Marble	12	3 .	21097	120	10:30	Howle	6	0
1048	30	2:00	Sportsman	•	0	2107/	120	10.30	novie	5	0
1049	60	2:00	Movie	5	D						

TABLE XVIII (CONTINUED)

				Sunc	day,	Sunday, November 14, 1976	er 1	4, 1	976			
1 13 14.5 Divey and Collects 1 0 22021 180 3100	Code No.	Length Minutes	Tine	Program	Type	tines Viewed	Code No.	Length Minutes	1 in	Program	Type	Times Viewed
2 (1) Districtions Programs 11 0 22022 60 3100 1 (2) 7100 Gilligious Programs 11 0 22033 60 3100 2 (2) 7100 Gilligious Programs 11 1 22033 60 4100 3 (2) 7100 Maligious Programs 11 1 22033 60 4100 3 (2) 7100 Maligious Programs 11 2 22034 90 4100 3 (2) 811gious Programs 11 1 20039 60 4100 3 (2) 811gious Programs 11 1 27034 90 4100 3 (2) 10:20 Maligious Programs 11 1 27034 60 6100 3 (2) 10:20 Maligious Programs 11 1 27044 60 6100 3 (2) 10:20 Maligious Programs 11 1 27044 60 6100 3 (2) 10:20 <	22001	13	6:45	Davey and Collath		0	22031	180	3:00	Football	•	•
1	22002	2	7100	Religious Progress.	=	.0	22032	2	3100	Nemot E1	•	
1, 10.	22003	æ	7:00	Cartoon Circus	2		22033	9	3:00	Adams Chromicles	•	-
1, 10, 1, 10, 1, 11, 10, 1, 11, 10, 1, 10, 10, 1, 10,	2 2004	30	7100	Gilligan	2	0	22034	8	0014	Dialogue	•	٥
10 7100 Religious Programs 11 200 300 4100 10 8100 Religious Programs 11 2 27037 60 4100 10 8100 Religious Programs 11 1 22039 60 4100 10 9100 Religious Programs 11 1 22030 60 4100 10 10100 Religious Programs 11 1 22041 130 5100 10 10100 Religious Programs 11 1 22041 130 5100 10 10100 Para the Press 11 0 22041 150 5100 10 10100 Press 4 0 22042 60 6100 10 10100 Press 4 0 22042 60 6100 10 10100 Press 1 22042 60 6100 6100 10 10100 Press 1	22002	R	7130	Religious Programs	=		22035	3	4 100	Footbell	•	۰
10 810 Rilifous Fogress 11 2 27034 84 4130 10 810 Rilifous Fogress 11 1 27038 84 4130 10 810 Rilifous Fogress 11 1 27038 84 4130 10 1010 Rilifous Fogress 11 1 27038 84 4130 10 1010 Rilifous Fogress 11 1 27034 84 84 10 1010 Rilifous Fogress 11 1 27044 84 10 1110 Granders 4 0 27044 84 10 1110 Granders 4 0 27044 84 10 1110 Rilifous Fogress 4 1 27044 84 10 1110 Rilifous Fogress 4 0 27044 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11	22006	8	7 130	Animels, Animels, Animals	4		22036	2	9:4	Gatting Om	4	• •
10 10 10 10 10 10 10 10	22007	8	8100	Religious Programs	11		22037	9	61.7	Frank Broyles Report	•	-
10 9100 Militions Fogress 11 1 22039 640 9100 10 9100 Militions Fogress 11 1 22041 120 5100 10 10 Militions Fogress 11 1 27041 120 5100 10 10 Militions Fogress 11 1 27041 120 5100 10 10 Militions Fogress 11 0 27042 60 6100 10 11 Militions Fogress 1 0 27042 60 6100 10 11 Militions Fogress 1 0 27042 60 6100 10 11 Militions Fogress 1 0 27042 60 6100 10 11 Militions Fogress 1 0 27042 60 6100 10 11 Militions Fogress 1 0 27042 60 6100 10 12 Militions Fogress 1 0 27042 60 6100 10 12 Militions Fogress 1 0 27042 60 6100 10 12 Militions Fogress 1 0 27042 60 6100 10 12 Militions 1 0 27042 60 6100 10 10 Militions Fogress 1 0 27043 60 6100 10 12 Militions 1 0 27043 60 6100 11 270 Militions 1 0 27043 60 6100 12 270 Militions 1 0 27043 60 6100 12 270 Militions 1 0 27043 60 6100 13 270 Militions 1 0 27043 60 6100 14 270 Militions 1 0 27043 60 6100 15 270 Militions 1 0 27043 60 6100 17 2704 Militions 1 0 27043 60 6100 18 270 Militions 1 0 27043 60 6100 19 270 Militions 1 0 27043 60 6100 10 270 Militions 1 0 27043 60 6100 10 270 Militions 270 4 0 6 10 270 27043 60 60 6000 10 270 27043 60 60 6000 10 270 27043 60 60 6000 10 270 27043 60 6000 10 270 27043 60 6000 270 27043 60 6000 270 27043 60 6000 270 27044 60 60 270 27044 60 6000 270 27044 6	22008	8	8:30	Religious Programs	=	7	22038	8	6130	Howle	•	
10 91.0 Miljelous Progress 11 1 1 12040 10 91.0 10 10 10 Miljelous Progress 11 1 1 12041 10 91.0 10 10 10 Miljelous Progress 11 1 1 12041 120 61.0 10 10 10 Mear the Miljelous Progress 11 1 1 12041 61.0 10 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Cerestiand 1 1 12042 61.0 10 11 10 Cerestiand 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 10 11 10 Mear the Miljelous 1 1 12042 61.0 11 11 11 11 11 11 11	52009	8	9:00	Religious Programs	=	-	22039	8	9:0	Oklahoma Football	•	, -
1000 Militare Programs 11 1 22041 120 6100 1010 Mailtare Programs 11 1 22041 120 6100 1010 Mailtare Militare 4 0 22042 60 6100 1010 Mailtare Militare 4 0 22042 60 6100 1010 Mailtare Militare 4 0 22042 60 6100 1010 Mailtare Militare 7 1 22044 60 6100 1010 Mailtare Militare 8 1 22043 60 6100 1010 Mailtare Mailtare 8 1 22043 60 6100 1010 Mailtare Mailtare 8 0 22043 60 6100 1010 Mailtare Militare 8 0 22044 60 6100 1010 Mailtare Militare 9 0 0 1010 Mailtare Militare 9 0 0 1010 Mailtare Militare 9 0 0 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010 1010	22010	ĕ	9:30	Religious Programa	=		22040	2	5130	Xevs	•	
10 10:10 Mailfolds Progress 11 0 2704, 60 6100 10 10:10 Perc et be Fress 14 0 2704, 60 6100 10 11:10 Perc et be Fress 4 0 2704, 60 6100 10 11:10 Perc et be Fress 4 0 2704, 60 6100 10 11:10 Perc et be Fress 4 0 2704, 60 6100 10 12:10 Perc et c 6 6 7 7 7 10 12:10 Perc et c 6 7 7 7 10 12:10 Perc et c 6 7 7 7 10 12:10 Perc et c 6 7 7 10 12:10 Perc et c 7 7 11 12:10 Perc et c 7 7 12 13:10 Perc et c 7 7 7 13 13:10 Perc et c 7 7 7 14 15:10 Perc et c 7 7 7 15 15:10 Perc et c 7 7 7 16 17:10 Perc et c 7 7 7 17 17 Perc et c 7 7 7 18 18 18 18 7 7 7 19 19 19 19 19 19 19 19 19	11022	R	10,100	Religious Programs	=	-	77841	120	9	World of Disney	-	
10 10:10 Mean the Million	22012	8	10:30	Raligious Programs	=	•	22042	09	9 100	60 Minutes	•	-
1100 Nest the Press	22013	ន	10:30	Face the Nation	•	0	22043	09	6100	Mov1 e	•	-
1100 Creations 1 1 1 1 1 1 1 1 1	22014	R	11:00	Meet the Press	•	•	22044	09	9:00	Onedin Line	•	۰
1800 12100 Fostell 1 1 1 1 1 1 1 1 1	22015	8	11:30	Grandstand	•	-	22045	g	6130	Anyone for Tennyson?	•	۰
1300 12100 Morate 1200 Morate 1200 12	91022	180	12100	Footbell	•	-	22046	9	7 100	Sonny and Cher	2	,
12 12 12 12 12 12 12 12	22017	180	12:00	Marie	•	2	22047	205	7 100	Morde	-	
12.00 Administration Administratio	22018	æ	12:00	Sense of Community	•	•	22048	9	7 100	Everalne at the Semphone	•	
90 112.00 Model 8.10 90 1100 Market is America 8 1 2009 60 8:00 90 1100 That teris is America 8 1 2009 60 8:00 120 1100 College Forchall 9 0 22053 120 9:00 60 1100 Movel 7 0 22053 10 9:00 10 1100 Movel 7 0 22053 10 10:00 10 1200 1110gel 121nd 9 0 22054 9 10:00 210 2200 120 22054 0 10:00 10:00 210 220 120 220 0 10:00 10:00 210 220 120 220 0 10:00 220 220 220 0 10:00 220 220 0 10:00 10:00	5102	oc.	12:30	Ads=-12	•		67066	120	8100	Hovie	•	. ~
100 Mark Parrol 1 2011 60 8100 100 Inhalter is America 1 2011 60 8100 100 College Football 1 2012 120 5100 120 1100 Morie 2012 120 2100 120 1100 Especial 1 0 21015 120 120 2100 Football 1 0 21015 60 10100 120 2100 Football 1 0 21015 60 10100 120 2100 Football 1 0 21015 60 10100 120 2100 Pootball 1 0 22015 60 10100 120 2100 Playing the Pulse 1 0 22015 60 10100 120 2100 Playing the Pulse 1 0 22015 50 10100 120 2100 Playing the Pulse 1 0 22015 50 120 2100 Playing the Pulse 1 0 22015 50 120 2100 Playing the Pulse 1 0 22015 50 120 2100 Playing the Pulse 1 0 22015 50 120 2100 Playing the Pulse 1 0 22015 50 120 2200 Playing the Pulse 1 0 22015 50 120 2200 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 22005 120 22005 22005 22005 22005 22005 22005 22005 22005 120 22005 220	12020	06	12:30	Hovie	•	-	33050	09	8:00	Kojek	9	-
90 1100 Theater is America. 8 0 22022 60 9:00 120 1100 College Football 9 0 22032 150 9:00 60 1:00 Novie 3 0 20034 10 9:00 60 1:00 Novie 1 0 20034 10:10 9:00 10 2:00 1:01 0 2 20034 9:0 10:10 10 2:00 1:01 0 2 2 10:00 10:00 2:00 2:00 Football 9 0 2:00 9:0 10:10 10 2:00 Football 9 0 2:00 9:0 10:10 120 2:20 Moult 3 3 3 10:10 10:10	2021	8	1.00	Rat Patrol	-	-	2002	9	8:00	Masterplece Theater	•	
100 100 College Football 9 0 22033 120 9100	2022	2	1:00	Theater is America		•	22052	9	00:6	Delvecchio	•	•
120 1100 Moreta 5 0 22034 60 9100	2023	90	1.0	College Football	•		22053	120	9:00	Theater in America	•	
60 1130 Desg Arctes Flaats 9 0 22035 30 10100 30 2200 Football 19104 9 2 22039 90 1030 310 2300 Football 9 0 23037 60 1030 310 2300 Flaying the hing 9 0 22039 60 1030 310 2320 Movite 1	2024	120	1:00	Movte	•	0	22055	9	9100	Firing Line	•	
10 2:00 Gilligan's Island 6 2 22056 90 10:30 10 2:00 Football 9 0 22056 90 10:30 2:10 2:20 Football 9 0 22059 90 10:30 3:20 2:20 2:20 2:20 2:20 2:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:2	2025	09	. 1130	Drag Racing Finals	•	•	11011	30	10100	Ē	•	
10 2:00 Feotball 9 2:00 2:00 10:30 2:0 2:00 2:00 60 10:30 3:0 2:00 7:19:18; the Talles 4 0 22059 50 10:30 120 2:30 Norte 3 3 3 10:30	9202	2	5:00	Gilligan's Island	•	~	22022	96	10:30	-	-	•
210 2:30 Forestall 9 0 22038 60 10:10 30 2:30 Fig.yag the Tales 4 0 22039 30 10:10 120 2:30 Morite 3 3 3 10:10	2027	30	2100	Football	•	•	23052	99	10:30	Starsky and Hutch		• •
30 2:30 Playing the Thing 4 0 22099 30 10:30 120 2:30 Mowie 5 3	2028	210	2:30	Football	•	0	2205	09	10130	Ironside	•	•
120 2:30 Howie 5	6202	R	2:30	Pleying the Thing	•		2205	2	10:30	Jim Frazieri Football	•	•
	2030	120	2:30	Movie	•							•

				Monday,	Nov	ember	15,	1976	,		
Code No.	Length Minutes	Time	Program	Туре	Times Viewed	. Code No.	Length Minutes	Time	Program	Туре	Times Vieve
23001 23002	120	7:00	Today	4	3	23056	30	3:30	Jabberjav	. 2	0
23002	60	7 100	CBS News	4	0	2305	30	3:30	Family Affair	8	0
23003	120	7:00	Good Morning, Ameri		0	23058	60	3:30	Uncle Zeb's Cartoon Camp	2	11
23004	30	7:30	Morning Show	4	0	23059	30	3130	Gambit	3	0
23005	60	8:00	Captein Kengaroo	12	5	23060	30	3130	Gilligan's Island	8	0
23007	60	8:00	Cartoon Circus	2	. 7	23061	30	3:30	Bevi tched	8	1
23008	30	8:00	Sesame Street	12		2306	30	4:00	Partridge Family	8	3
23009	30	8:30	Dusty's Treehouse	13	0	2306	3 30	4:00	To Teli the Truth	3	0
23010		9100	Senford and Son	8	0	. 23064	60	4:00	Guasmoke	1	0
23011	30	9 200	Price Is Right	3	0	2306	30	4100	Emergency One	1	1
23011	90	9100	Hov1 e	5	0	23066	30	4100	Little Rascals	8	0
23012	30	9100	Electric Company	12	6	23067	30	4100	Mister Rogers	12	4
	60	9100	Phil Donahue	10	0	23068	30	4100	Adm-12	6	1
23014	30	9:30	Rollywood Squares	3	0	23065	60 -	4100	Dinah	10	1
3015	90	9130	Infinity Factory	13	1	23070	30	4:30	Bewitched	8	1
3016	30	10:00	Wheel of Fortune	. 3	0	23071	30	¥ 4:30	Brady Bunch	6	
3017	30	10:00	Gambi t	3	0	2307	30	4130	Gilligan's Island	8	5
3015	60	10:00	Djnah	10	1	2307	30	4:30	Emergency One	1	
3019	30	10:00	Ryan's Hope	7	1	23074	30	4130	Electric Company	12	. 6
3020	30	10:30	Stumpers	3	- 0	2307		4+30	Marcus Welby	8	0
3021	30	10:30	Love of Life	,	0	23076		5:00	My Taree Sons	8	1
9022	30	10130	Happy Days	8	2	23071		5100	Adam-12	6	1
023	60	11:00	Hery Griffin	10	0	23075		5100	Neva	4	1
X 024	30	11:00	50 Grand Stam	3	1	23079		5100	Hogan's Heroes	1	· i
025	30	11:00	Young and the Restle	1 7	ò	23080				13	3
026	30	11:00	Dom Ho	10	0	23081		5100 5100	Zoom Sesame Street		
027	60	11:00	Adams Chronicles	4	0 .	23062	• •	5130	News	12	6
028	60	11:30	Phil Donahue	10	-	23063		5+30		4	1
029	30	11:30	Gong Show	,	1	23064		6100	Villa Alegre	13	2
030	30	11:30	Search for Tomorrow	7	1	23085			Nevs	4	1
031	30	11:30	Helody Hatinee	10	0	23086		6:00	Zoom	13	4.
032	30	11:30	All My Children	7	0	23087	50 30	6:00	Emergency One	1	2
333	30	12:00	News	Ĺ	0	23088	30	6130	Brady Bunch	8	1
34	30	12:00	Ryan's Hope	,	0	23089		6130	\$25,000 Pyramid	3	0
35	30	12:00	Love of Life	,	0		30	6:30	My Three Sons	8	2
116	60	12:30	Days of Our Lives		0	23090	30	6:30	\$128,900 Question	3	0
37	60	12:30		1	1	23091	30	6:30	Adam-12	6	1
38	30	12:30	As the World Torns	7	0	23092	30	6:30	Nashwille on the Road	10	2
39	30		Family Feud	3	1	23093	60	7:00	Little House on the Prairie	8	7
40		1:00	\$20,000 Pyramid	3	0	23094	30	7:00	Rhoda	8	6
41	30	1:30	Doctors	7	1	23095	60	7 100	Gunsmoke	1	0
42 .	30	1:30	Guiding Light	7	0	23096	60	7 100	Adams Chronicles	4	ı
43	30	1:30	One Life to Live	7	0	23097	60	7:00	Captain and Tennille	10	1
44	30	2100	Another World	7	0	2 3098	30	7:30	Phyllis	8	. 2
45	30	2100	All in the Family	8	0	23099	120	8:00	Hovie	5	2
	30	2:00	Electric Company	12	1	23100	30	8:00	Maude	8	0
146	45	2:15	General Hospital	7	٥	23101	120	8:00	MFL Football	9	2
47	30	2:30	Match Game	3	0	23102	60	8:00	in Performance at Wolf Trap	4	0
48	30	3:00	That Girl	8	3	23103	30	8:30	All's Fair	8	0
49	30	3:00	Somerset	7	o	23104	60	9:00	Executive Suita	8	-
50	90	3:00	Dinah	10	0	23105	30	10:00	Kevs		1
51	30	3:00	Edge of Night	7	0	23105	30	10:00	The Way It Was	-	0
52	30	3:00	Tattletales	3	1	23107	90	10:30	Johnny Carson	10	0
53	50	1:00	Sesame Street	12	5	23108	90	10:30	Novie	5	0
54	. 30	3:30	Flintstones	2	-	23109	30	10:30	Mary Hartman, Mary Hartman	7	0
155	30	3:30	Cons Show		2	,		10.30	cert Hartman, Mary Hartman	7	0

			Tues	day,	Novemb	er 1	.6,]	1976			
Code No.	Length Minutes	Time .	Program	Туре	Times Viewed	Code No.	Length Minutes	Time	Program	Type	Time Vie
4001	120	7100	Today	4	2	24058	30	3:30	Gambit	3	1
.002	60	7:00	CBS News	4	0	24059	30	3:30	Gilligen's Island	8	2
4003	120	7:00	Good Morning, America	4	1	24060	30	3:30	Bewl tched	8	1
4004	30	7:30	Moralag Show	4	0	24061	30	4:00	Partridge Family	8	0
4005	60	8:00	Captain , Kangaroo	12	3 .	24062	30	4:00	To Tell the Truth	3	0
4006	30	8:00	Cartoon Circus	ž	4	24063	60	4:00	Gunswoke	1	0
4007	60	B:00	Sesame Street	12	. 1	24064	30	4:00	Emergency One	1	0
4006	. 30	8:30	Dusty's Treehouse	13	0	24065	30	4:00	Little Rescals	8	1
4009	30	9:00	Sanford and Son	5	0	24066	30	4:00	Mister Rogers	12	5
4010	30	9:00	Price Is Right	3	0	24067	30	4:00	Adam-12	6	0
4011	90	9:00	Movie	5	0	24068	60	4100	Dinah	10	0
4012	30	9:00	Electric Company	12	1.4	24069	30	4:30	Bevitched	8	1
4013	60	9:00	Phil Donahue	10	. 0	24070	30	4:30	Brady Bunch	8	2
4014	30	9:30	Hollywood Squares	3	0	24071	30	4130	Gilligan's Island		5
4015	30	9:30	Villa Alegre	13	1	24072	30	4130	Emergency One	1	2
4016	30	10:00	Wheel of Fortune	3	0	24073	30	4:30	Electric Company	12	4
4017	30	10:00	Gambit	. 3	0	24074	60	4130	Marous Welby		0
4018	60	10:00	Diash	10	0	24075	30	5100	My Three Sons		2
4019	30	10:00	Ryan's Hope	7	0	24076	30	5100	Adem-12	6	0
4020	30	10130	Stumpers	3	0 12 -	24017	30	5100	Nevs	4	
4021	30	10:30	Love of Life	7	0	24078	30	5:00	Hogan's Heroes	1	1
022	30 .	10:30	Happy Days	8	2	24079	30	5100	Zoom	13	
023	60 .		Mery Griffin	10	0	24080	60	5100	Sesame Street	12	
024	30	11:00	50 Grand Slam	3	1	24081	30	5:30	News		1
10 25	30	11:00	Young and the Restless	7	0	24082	30	5130	Ouce Upon a Classic		-
4026	30	11:00	Don Ho	10	0	24083	30	6100	News	4	0
60 27	60	11:30	Phil Donahue	10	0	24084	30	6:00	Zoca	13	3
028	30	11:30	Gong Show	3	1	24085	60	6100	Emergency One	1	1
1029	30	11:30	Search for Tomorrow	7	0	24086	30	6:30	Brady Bunch	8	
1030	30	11:30	Helody Matinee	10	0	24087	30	6:30	Wild Kingdom	,	1
031	30	11:30	All My Children	7	0	24088	30	6:30	My Three Sons		
032	30	12:00	News	4	0	24089	30	6:30	\$100,000 Name That Tune	3	0
033	30	12:00	Ryan's Hope	7	О .	24090	30	6130	Adam-12	6	2
034	30	12:00	Love of Life	7	0	24091	30	6130	Buck Ovens	10	0
035	60	12:30	Days of Our Lives	7	3	24092	60	7:00	Bas Bas Black Sheep	8	
036	60	12:30	As the World Turns	7	1	24093	30	7:00	Rappy Days		11
037	30	12:30	Family Foud	3	0	24094	60	7:00	Tony Orlando and Dawn	10	3
038	30	1:00	\$20,000 Pyramid	3	1	24095	60	7:00	Lawrence Welk	10	0
039	30	1:30	Doctors	7	1	24096	90	7:00	Hall of Fame	4	0
040	30	1:30	Guiding Light	7	0	24097	30	7:30	Laverne and Shirley	*	
4041	30	1:30	One Life to Live	7	0	24098	60	8:00	Police Woman	6	
4042	30	2:00	Another World	7	0	24099	60	8:00	Rich Man, Poor Man	8	1
4043	30	2:00	All in the Family	8	0	24100	30	8:00	K*2*A*H	8	-
4044	30	2:00	Electric Company	12	3	24100	60	8100	Strauss Family	4	1
4045	45	2:15	General Hospital	7	0	24101	30	8:30	One Day at a Time	8	0
1046		2:30	Match Game	3	0	24102	120	8:30	Movie	,	1
4047	30	3:00	That Girl	8	2	24103	50	9:00	Police Story	6	-
4048	30	3:00	Somerset	7	1	24102	60	9:00	Family	8	0
4049	60	3:00	Dinah	10	0	24106	60	9:00	Switch	6	1
4050	30	3:00	Edge of Night	7	. 0	24107	30	9:00	Great Zoos of the World	4	2
4051	30	3:00	Tettletales	3	0	24108	30	10:00	Great Zoos of the World		0
4052	60	3:00	Sesane Street	12	5	24109	90	10:30		4	0
4053	30	3:30	Flintstones	2	1	24110	60	10:30	Johnny Carson Kojak	10	0
1054	30	3:30	Gong Show	3	0	24111	60	10:30	-	6	0
4055	30	3:30	Gilligan	2	. 0	24111	30	10:30	Ironside	6	0
1056	30	3:30	Family Affeir	8	. 0		60	10:30	Mary Hartman, Mary Hartman	7	ı
LO 57	60	3:30	Uncle Zeh's Certoon Comp	_		24113	90	10.30	Perry Mason		0

			Wedne	vemb	er	er 17, 1976						
Code No.	Length Minutes	Ti=e	Program	Type	Times Viewed		Code No.	Length Minutes	Time	Program	Type	Time Vi ev
5001	120	7:00	Today	4 .	2		25054	30	3:30	Gong Show	3	0
5002	60	7:00	CBS News	4	0		25055	30	3:30	Jabberjaw	2	1
5003	120	7:00	Good Morning, America	4	0		25056	30	3:30	Family Affair	8	0
5004	30	7:30	Morning Show	4	0		25057	60	3:30	Uncle Zeb's Cartoon Camp	2	13
5005	60	8:00	Captain Kangaroo	12	4		25058	30	3:30	Gambit	3	0
5006	30	8100	Cartoon Circus	2	5		25059	30	3:30	Gilligen's Island	8	2
5007	60	8:00	Sesame Street	12	5		25060	30	3:30	Beuttched	8	1
5008	30	8:30	Dusty's Treehouse	13	0		25061	30	4:00	Partridge Family	- 8	2
5009	30	9:00	Sanford and Son	8	0		25062	30	4:00	To Tell the Truth	3	ó
5010	30	9:00	Price Is Right	3	0		25063	60	4:00	Gunsmoke	1	0
5011	90	9:00	Movie	5	0		25064	30	4:00	Energency One	1	1
5012	30	9:00	Electric Company	12	4		25065	30	4:00	Little Rescale	8	1
5013	60	9:00	Phil Donahue	10	ō		25066	30	4:00	Hister Rogers	12	4
5014	30	9:30	Hollywood Squares	3	٥		25067	30	4:00	Adam-12	6	0
5015	90	9:30	Infinity Factory	- 13	1		25068	60	4:00	Dinen	10	0
	30	10:00	Wheel of Fortune	3	0		25069	30	4:30	Bewitched	8	ď
5016		10:00	Gambit	3			25070	30	4:30	Brady Bunch	8	i
5017	30 60	10:00	Dinah	10	0		25071	30	4:30	Gilligen's Island	8	8
5018		10:00	Ryan's Hope	7	0		25072	30	4:30	Emergency One	1	1
5019	30 30	10:30	Stumpers	1	0		25073	30	4:30	Electric Company	12	5
5020	30	10:30	Love of Life	7	0		25074	60	4:30	Marcus Welby	8	0
5021	30	10:30	Happy Days	8	0		25075	30	5:00	Hy Three Sons	8	1
5022		11:00	Merv Griffin	10	1		25076	30	5:00	. Adam - 12	6	2
5023	60				٥			30	5:00	News		
5024	30	11:00	50 Grand Slam	,	1		25077 25078	30	5:00	Hogan's Heroes	-	0
5025	30	11:00	Young and the Restless	7	0					-	1	1
5026	30	11:00	Don Ho	10	1		25079	30	5:00	Zoom	13	0
5027	60	11:30	Phil Donahue	10	0		25080	60	5:00	Sesame Street	12	8
5028	30	11:30	Gong Show	3	2		25061	30	5:30	News	4	2
5029	30	11:30	Search for Tomorrow	7	0		25082	30	6:00	News	4	1
5030	30	11:30	Helody Matinee	10	0		25083	30	6:00	Zoom	13	4
5031	30	11:30	All My Children	7	0		25084	60	6100	Emergency One	1	2
5032	30	12:00	News	4	0		25064	30	6:30	Brady Bunch	8	0
5933	30	12:00	Ryan's Hope	7	0		25085	30	6:30	Andy Williams	10	. 0
5034	30	12:00	Love of Life	7	0		25086	30	6:30	My Three Sons	8	1
5035	60	12:30	Days of Cur Livez	7	. 2		25087	30	6:30	Wild, Wild World of Animals	4	0
5036	60	12:30	As the World Turns	7	1		25088	30	6130	Adam-12	6	5
5037	30	12:30	Family Feud	3	0		25089	30	6:30	Treasure Hunt	3	1
5038	30	1:00	\$20,000 Pyramid	3	0		25090	120	7:00	Hovie	5	1
5039	30	1:30	Doctors	7	1		25091	30	7:00	Good Times	8	. 3
5040	30	1:30	Guiding Light	7	0		25012	60	7:00	Dorothy Hamill	10	8
5041	30	1:30	One Life to Live	,	0		25093	60	7:00	Nova	4	0
50A7	30	2:00	Another World	7	0		25094	30	7:30	Jeffersons	8	,
5043	30	2:00	All in the Family	8	1		25095	160	8:00	Movie	5	0
5044	30	2:00	Electric Company	12	i		25096	60	8:00	John Denver	10	9
5045	45	7:15	General Hospital	7	. 0		25097	30	8:00	Anyone for Tennyson	4	0
5046	30	2:30	Match Game	3	. 1		25028	30	8:30	Consumer Survival Kit	-	0.
5047	30	1:00	That Girl		-		25099	60	9:00	Quest	8	ů
5048	30	3:00		. 8	2		25100	60	9:00	Olivia Newton-John	10	-
5049	60	3:00	Somerset	7	0		75101	30	9:00	Great Zoos of the World	4	4
			Dinsh	10	0		25102	30	10:00	News	-	0
5050 5052	30	3:00	Edge of Night	7	0		25103	90	10:30	Johnny Carson	4	0
	30	3:00	Tattletales	3	0		25104	60	10:30	Ironside	10	0
5052	60	3:00	Sesame Street	12	2		25105	60	10:30		6	0
5053	30	3:30-	Flintstones	. 2	2		. ,,,,,	00	.0.30	Perry Mason	6	0

			Thur	sday	, Nov	ember	18,	197	6		
ade la.	Length Minutes	Time	Program	Type	Times Viewed	Code No.	Length Minutes	Time	Program .	Type	Times Viewe
6001	120	7 100	Today	4	, 3	26057	30	3:30	Bevitched	8	0
6002	60	7:00	CBS News	4	1	26058	60	4:00	Gunswoke	1	0
6003	120	7:00	Good Morning, America	4	1	26059	30	4:00	Partridge Family	8	2
5004	30	7 = 30	Horning Show	4	1	26060	30	4:00	To Tell the Truth	3	0
6005	60	8:00	Captain Kangaroo	12	8	26061	30	4:00	Little Rescels	8	4
6006	30	8:00	Cartoon Circus	2	6	26062	30	4:00	Emergency One	1	0
6007	60	8:00	Sesame Street	12	10	26063	30	4:00	Mister Rogers	12 .	. 6
6008	30	9:00	Sanford and Son		, O	26064	30	4:00 .	Adam-12	6	0
6009	30	9:00	. Price Is Right	3	⁻ 0	26065	90	4:00	Dinah	10	1
6010	90	9:00	Hovi e	5	2	26066	30	4:30	Audy Griffith	8	0
6011	30	9:00	Electric Company	12	· 8	26067	30	4:30	Bewitched	8	1
6012	30	9:30	Rollywood Squares	3	* 2	26068	30	4:30	Brady Bunch	8	2
6013	30	9:30	Villa Alegre	13	. 0	26069	30	4130	Gilligan's Island	8	6
6014	30	10:00	Wheel of Fortune	3	1	26070	30	4:30	Emergancy One	1	1
6015	30	10100	Gambit	3	. 0	26071	30	4:30	Electric Company	12	4
6016	60	10:00	Dinah	10	0	26072	60	4:30	Marcus Welby		1
5017	30	10:00	Ryan's Hope	7	0	26073	30	5:00	Neus	4	0
6018	30	10:30	Stumpers	3	. 0	26074	30	5:00	My Three Sons		o
6019	30	10:30	Love of Life	7	1	26075	30	5:00	Nogan's Heroes	1	1
6020	30	10:30	Happy Days	8	4: 1	26076	30	5:00	Adam-12		
6021	60	11:00	Mery Gelffin	10	1.	26077	30	5100	Family Affair	8	,
6022	30	11:00	50 Grand Slam	3	0	26078	60	5:00	Sesame Street	12	8
6023	30	11:00	Young and the Restless	,	7 .	26079	30	5100	Zoom	13	. 2
6024	30	11:00	Don Ho	10	1	26080	30	5130	Nevs	4	1
5025	60	11:00	Nova	4	0	26081	30	5130	Rebop	12	. 0
6026	30	11:30	Gong Show		2	26082	30	6100	News	4	
6027	30	11:30	Search for Tomorrow	, 3	. 0	26083	60	6100	Emergency One		3
6028	30	11:30	Helody Matinee	7 10	0	26084	30	6:00	Zoom	1	5
6029	30	11:30			0	26085	30	6130	Brady Sunch		5
030	30	12:00	All My Children	7	0	26086	30	6130			3
5031	30	12:00	News	4	٥	26087	30	6:30	Price Is Right	3	0
6032	30		Ryan's Hope	7	0	26088	30	6:30	My Three Some		2
		12:00	Book Beat	4	0		30		Gong Show	3	1
5033	60	12:30	Days of Our Lives	7	0	26089		6:30	A dam - 12	6	2
6034	60	12:30	As the World Turns	7 -	0	2609 0 2609 1	30 60	6:30 7:00	Match Game PM	3	0
6035	30	12:30	Family Foud	3	1				Dick Van Dyke	10	0
036	30	1:00	\$20,000 Pyramid	3	1	26092	60	7:00	The Waltons	8	7
037	30	1:30	Doctors	7	0	26293	30	7:00	Welcome Back, Kotter	8	4
038	30	1:30	Guiding Light	7	0	26094	60	7:00	Masterplece Theater	8	1
039	30	1:30	One Life to Live	7	0	26095	30	7:30	Sarney Miller	6	2
6040	30	2100	Another World	7	1	26076	120	7:30	Movie	5	0
5041	30	2:00	All in the Family	8	1	76077	60	8:00	Drama	8	2 .
5042	30	2:00	Electric Company	12	0	26078	60	9:00	Hawaii Five-0	6	4
043	45	2:15	General Hospital	7	D	26. 72	50	9:00	Adams Chronicles	4	0
044	30	2:30	Match Game	3	1	26100	30	8:00	Tony Randall	a	1
045	90	3:00	Dinah	10	0	16101	30	8:30	Nancy Walker	8	1
046	30	3:00	Somerset		•	:6102	50	9:00	Gibbsville	8 .	o
047	30	3:00	Edge of Night	7	1	26103	60	9:00	Streets of San Francisco	6	0
048	30	3:00	Tettletales	7	0	16104	60	9:00	Marcus Welby	8	1
049	60	3:00	Sesame Street	3	0	26105	60	9:00	Barnaby Jones	6	
050	30	3:30	Flintstones	12	5	76116	30	10:00	News	4	0
051	30	3:30		8	1	25107	90	10:30	Johnny Cerson	10	
052	30	3:30	Gong Show	3	0	26108	60	10:30	Kojak	6	0
253	30	3:30	Oddball Couple	8	1	-6109	30	10:30	Football .	9	0
254	60	3:30	Family Affair	8	0	2-110	60	10:30	Perry Mason	6	٥
	30	3:30	Uncle Zeb's Cartoons Gambit	2	12	26111	30	10:30	Mary Hartman, Hary Hartman	7	0
055											

APPENDIX G

September 1, 1976

Dear Parents.

As a final part of the requirements for my Ed.D. degree from Oklahoma State University, I am conducting a research study to use for my doctoral dissertation. I will be exploring the relationships between television viewing behavior and social development in early childhood. I believe this information is needed by parents, teachers, and the television industry. Most of the child development research in this area so far has focused on the relationship between the viewing of violence and the child's aggressive behavior.

I will greatly appreciate your help in this project. I will need to have you complete a television viewing inventory for your child for two weeks this semester, once in early September and again in late November. I will play two games with your child, one to assess his social relations with the other nursery school children and the other to assess his degree of social conformity. All data obtained will be confidentail and tabulated as a part of the large study. I will share the findings with you for the entire study in a newsletter in the spring after I have the data tabulated and analyzed.

If you are willing to help in this research by completing the Television-Viewing Inventories and by allowing your child to participate, please sign and return the attached form.

Sincerely yours,

Elaine Goldsmith Assistant Professor, Home Economics

September 1, 1976

I will be happy to cooperate in the television-social development study by completing two Television-Viewing Inventories and by allowing Mrs. Goldsmith to test my child.

Parent's Signature Child's Name

VITA

Allys Elaine Goldsmith

Candidate for the Degree of

Doctor of Education

Thesis: THE RELATIONSHIP BETWEEN TELEVISION-VIEWING BEHAVIOR AND SOCIAL DEVELOPMENT IN EARLY CHILDHOOD

Major Field: Home Economics Education

Biographical:

- Personal Data: Born in Willobee, Ohio, July 3, 1935, the daughter of Mr. and Mrs. Otis W. House. Married, 1955; divorced, 1962. Two daughters: Miriam Elaine Goldsmith, born March 29, 1964, and Elizabeth Ann Goldsmith, born February 14, 1966.
- Education: Attended grade school in Willoughby, Ohio; graduated from Willoughby Union High School, Willoughby, Ohio, in June, 1953. Received a Bachelor of Science in Home Economics Degree from Ohio University, Athens, Ohio, with a major in Home Economics Education in June, 1957. Received a Master of Science Degree from Oklahoma State University, Stillwater, Oklahoma, with a major in Family Relations and Child Development in July, 1970. Completed requirements for the Doctor of Education Degree July 29, 1977.
- Professional Experience: Vocational Home Economics Teacher, Clyde High School, Clyde, Ohio, 1958-1961; Home Economics Teacher, Avon High School, Avon, Ohio, 1961-1963; Graduate Teaching Assistant, Department of Family Relations and Child Development, Oklahoma State University, Stillwater, Oklahoma, 1969-1972; Assistant Professor, Department of Home Economics, University of Arkansas, Fayetteville, Arkansas, 1972-1977.
- Professional Organizations: American Home Economics Association, Omicron Nu, Phi Upsilon Omicron, Society for Research in Child Development, National Council on Family Relations, National Association for the Education of Young Children, Southern Association on Children Under Six.