A STUDY OF THE TECHNIQUES OF SPORTS TELECASTING

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ACCENCIA EXAMPLE

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CHAPTER I

LITETORY OF THE TELECASTING OF SPORTS

AND STATEMENT OF THE PROBLEM

Introduction. In any study about television perhaps the first thing to be done is to define the word television and tell where the word originated. Richard Hubbell tells us that after several wooks of searching, he found how and why the name was created.

. . It apparently was coined in 1900 by a French librarian who was trying to catalogue some material on the electrical transmission of pictures---which was then called telescopy, electrical telescopy, or telectroscopy. This librarian concected the word 'television,' which we have adopted without the accent marks. Although it has been well publicized, it might be in order to note that the word 'television' comes from Latin and Greek roots, and means, literally, 'distant-seeing.'

Ficherd Hubbell, <u>Television Progressing</u> and <u>Production</u> (New York: Murrey Hill Books, Inc., 1945), pp. 11-12.

It seems quite interesting to note that such a great medium should derive its name in an unusual manner such as this. The creation of the name as told by Hubbell is being seconted because no other writer on television seems to offer any other origin of the word. As can be seen, the meanings of the Greek and Latin roots fit television as we know it today and will probably continue to fit even better. It is truly "distant-seeing" when sitting before a set in Pittsburgh, a family sees wrestling bouts being held in Chicago, Illinois, veriety shows from New York, and Senate investigations taking place in Washington, D. C. Perhaps in the next few years this same family will watch scones from all over the World.

Differing from the origin of the word, television, elmost every writer in the field has produced a definition. Futchinson in his book, <u>Here is Television</u> calls it, "The transmission of a succession of images and their reception in such a way as to give the impression of a continuous reproduction of a scene to a distant viewer,⁵² William C.

2 Thomes H. Hutchinson, <u>Here is Television</u> (New York: Eastings House, 1950), p. 365.

Eddy says, "Television is, in truth, a malting pot of the sciences, the arts, and the populace."³ David Sarnoff,

8 William C. Eddy, <u>Televisions</u> The Even of Temerrow (New York: Frentice Hell, Inc., 1945), p. vii.

Chairman of R. C. A's Board of Directors, has been connected with radio and television most of his life. He has been prominent in almost every important movement since radio began. About television he remarks,

We have learned to believe in the mirecles of science. Television is such a mirecle. But television, if it is to fulfill its highest purpose, must begin where science leaves off and help bring

about new mirecles, not only in machines but also in men-mirecles to which the hyman heart as well as the human mind must contribute.

⁴ Lenox R. Lohr, <u>Television Broadcesting</u>, (New York and London: McGrew-Hill Book Company, Inc., 1940), p. xiv. Mr. Lonox Lohr, President of the National Broadcesting Company in 1940, defines television se, ". . . the instanteneous transmission of moving images containing sufficient detail for entertainment or for informative purposes, the whole being accomplished by electronic means.⁸⁵ Hoyland

⁵ Ibld., p. 16.

Bettinger, a writer on television techniques, classifies television as either a medium of communication or an enterteinment modium. He goes on to say, however, that these are narrow terms, that it is a powerful sociological force. That, like radio, it goes into the home and thus into the heart of the nation. He montions that it forms attitudes, conditions thinking and establishes and murtures cultural standards.⁶

⁶ Hoyland Bottinger, <u>Television Techniques</u> (New York and London: Herper and Brothers, 1947), p. 11. Later, in his glossery of terms, he actually defines television as:

the transmission and reproduction of a view or scene, sepacially a view of persons or objects, by

any device or apparatus that converts light rays into electrical impulses in such a way that they may be transmitted and then reconverted by a receiver into visible light rays forming a picture.

7 Ibid., p. 169.

Dunlep calls to our attention one of the more humorous ideas of what television is. He tells of Merconi having received a vest number of letters when he was credited with having developed a method of seeing by wireless. Meny of the letters were from older ledies who protested his destroying the privacy of the home. Merconi then said, "They seemed to think that I led invented an electric eye that would look through wells and mountains. That's what they understood to be television. I assured them that I had no such idea.⁶⁸

⁸ Orrin E. Dunlep, <u>The Future of Television</u> (New York and London: Herper and Brothers Publishers, 1948), p. S. For the purposes of this study no such elaborate definition as any of the preceding is needed. It can perely be called the transmission of active pictures electronically.

I. HISTORY OF TELECASTING

In order to give the reader some background for this study, the first step will be to sketch a short history of telecasting, including events which led to television as it

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is today. It can be easily imagined that a complete history would take several volumes in itself. The following will yield some of the important dates in television's gigantic growth.

Nost people think of television as being an idea that grow up during the mineteenth and twentieth centuries. This is not true. Several hundred years ago, even in Biblical tizes, people were interested in seeing beyond their "herison." It is just within the last few decedes that this has become a reality instead of a dream.

The first important experiment related in any way to radio and television was back in 640 B. C. It was noticed that amber, after rubbed, would attract some light articles. This was the first discovery of frictional electricity. The word electricity was given, because the Orecks colled onder "elektron." The summy luster of amber was the reason for the name. Thus, the first electricity was discovered. Through the years men with great minds began to explore the mysteries of electricity. In 1650, a German, Otto von Guericks, invented the first frictional electric machine--the sir pump. That was the beginning? From them until 1800 memy discoveries were made and great men born--Benjamin Franklin in 1706, Allesandro Volte in 1748, Semuel Morse in 1791, and Michael Faraday in 1791. Some of the discoveries were--Boyle noted that electrical attraction takes place in

s vacuum, Gray observed that electric forces could be carried about 1,000 feet using a heap line, the electrostatic comdenser or Leyden jar was discovered, Franklin proved lightening to be electricity by his kite experiment, and the voltaic cell was invented in 1794. These discoveries, plus some other less important ones, made up the background for the tremendous stops taken during the nineteenth and first half of the twentieth centuries.

In 1801 electricity was put into practical use with the display of the carbon are light. Ohm gave us his law of resistance in 1825. The first "microphone" was made in 1827 by Charles Theststone of England. It was a orude device that he developed to explify weak sounds. Another greet practical development came forth in 1831 when Joseph Henry developed the first electric bell. During this period Samuel F. B. Korse had conceived the ides of the telograph and conducted many experiments using the telograph. In Merch of 1843 the Congress of the United States sporopriated to Korse \$30,000 to erect a telegraph line from Washington to Beltimore. It was in the same year that Korse and Afred N. Vell originated the Morse Code, used in communication for years to come. In the next year, 1844, the first tolegraph line in the world was opened between Eachington and Beltizoro with the fatous message, "What hath God Frought?" These "rearing fortics" produced two

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of the best known nineteenth century inventors, Thomas Alve Edison and Alexander Orsham Bell. The years to follow were brightened by the experiments of these men.

After the "rooring forties" progress toward redic and television went by laces and bounds. Designs were sent by telegraph as early as 1956, On August 16, 1856, Freeldont Buchenen and Queen Victoris exchanged greatings via the first trans-Atlantic cable. Communication was expanding between continents as well as locally. Hen began experiments with the wireless which was to be the forerunner of communication today. In direct relation to television, the photoelectric property of selenium was discovered by Jeseph key. This was later to be used in tolevision tubes. Such great men as Pessenden, De Porest, Merconi, Sertz, Braun. and Floming word born. The telephone was invented by Boll in 1875 and communication sgain jumped cheed. Sir William Crockes invented the Crockes tube and demonstrated the properties of esthode reys in 1878. This was a direct lead toward tolevision. Foul Nipkow came into the soone in 1886 with the television scenning disc. He received a German petent on Jenuery 6 of that year. Progress was being made toward making television a reality.

Other new appliances were needed, however, before the scenning disc could be put into use. In 1890 C. Francis Jankins began the needed search for these.

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It was shortly after this, in 1895, that twenty-one year old Guglielmo Marconi amazod the world by sending and receiving the first wireless signals on his father's estate in Itely. This started on evalenche of experimentation all over the world. Merconi set a pace too fast for most and led all of the way.

Four years later, in 1899, he cant his first signal across the English Chennel by wireless. Ships began to use the wireless for short distances. Companies were set up in England, the United States, and elsewhere to promote the use of wireless and to perfect it. Remember that this was still only sending signals.

In December of 1900, Professor Reginald Fessenden transmitted the first speech by wireless at Cobb Island, Virginia, We used a spark transmitter to send this speech. The wireless continued to grow and in December of 1901 Esrconi and two of his sesistants received the first transatlentic virolers signal at St. Johns, Newfoundland. The letter "s" was sent from a transmitter at Poldhu. Sireless was now secure, having saved passengers and erows from many occan diasters and even carrying the news of the assassingtion of Tehduke Francis, of Justrie, along with other news of the outbreak of Corld War Cne.

A new strain was pleced upon the scientists and experimenters in radio. The strain of war and perfecting new

developments for use in war zones and on bettlefronts had erisen. It was during these pressing times that Marconi predicted a "visible telephone" by use of vireless and in August, 1915, David Sarnoff, one of our great names in radio and television, proposed the "radio music box" and outlined a system of public broadcasts. He was faristant Traffic Manager of the Marconi Wireless Telegraph Company at the time. He reposted his recommendation in a momorandum to the Vice-President and General Manager of the Company, N. J. Nally, in September of 1916.

The first experimental radio station was opened in November of 1916 by De Forest. Election bulleting were picked up by metaurs within a two bundred mile radius. The some year, station 22K in New Rochelle, New York, started a regular one hour broadcast of music every night except Sunday from mine until ten c'clock. It was three years later that the first stempt was made to broadcast s president's voice. President Voodrow Wilson was returning from the Foris Poses Conference aboard the V. S. S. Course Tashington. President Wilson made an addrear to the area, but those listening from the shore could not heer his voice clearly. The arms your the United States Signal Corps broadcast the first course service from Trinity Church, Wrshington, D. C. (leo in 1919, station GIN storted private broadcasting as the pioneer station of the world. It was later to become station KDEA

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and is located in Pitteburgh. In 1920 KDKA broadcast the Harding-Cox election returns and station SMK was opened by the Detroit News. This station later became NWJ. From 1920 on, broadcasting grow like a bad wood. Some of the time it was considered to be such a wood. All types and kinds of programs were sized locally and eventually in 1922 the first network broadcast took place.

In 1923 one of the most important patents effecting television was filed. It was for the iconescope and was filed by its inventor, Dr. V. K. Zwerykin. In fact, Dr. Zwerykin had a complete television system working on sixty cycles. He demonstrated a rough pattern on the face of the cathode-ray tube and also demonstrated the kinescope picture tube that was part of the system.

Both John Beird in England and C. Frencis Jenkins wore working on a mechanical system at the same time. These systems put into use a mechanical scanning disc and could produce only a low definition picture.

Nineteen twenty-seven showed progress in television when, in January, Philo Fernsworth filed a patent for an electronic system of television, and wire television between Washington, D. C. and New York was demonstrated by the Bell Telephone Laboratories. They also demonstrated television by radio using the same frequency for both picture and sound. The first transetlentic television' appeared the next year

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when Mrs. Mis Nowe, in London, was seen in Martsdale, New York. She was telecast by Baird's mechanical scaming system.

In May of 1928 station EGY in Schenectady, New York, started a regular program schedule. They had programs on the sir three days such week and on September 11, 1928, they telecast the first couplete dramatic program. It was a oneact melodrame called "The Queen's Messenger."

9 Hutchinson, Cp. Cit., p. 342.

At this time elmost every coopeny that manufactured electronic equipment was experimenting in the television field. All of the systems being used still employed some mechanical devices. Most of the pictures that were received were very small and quite crude. There were not more than sixty lines scenned in each picture. The compress used for pick-ups were stationary, therefore the subject to be televised hed to be brought to the compres. Nothing more than the head and shoulders of a person could be televised if an understandable picture was wanted. Obviously, such service could have little entertainment value.¹⁰

10 Lohr, Op. Cit., p. 19.

On June 27, 1929, the first color television was demonstrated by the Bell Telephone Laboratories. It was done

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by use of wires from one end of a room to the other. The picture was no larger than a postage stamp. November of the same year sew Dr. Zworykin demonstrating his new kinescope or esthode-ray picture to the Institute of Radio Engineers. The meeting was held at bochester, New York. This tube was an improvement over Braun's crude cathode-ray tube. The system used one hundred and twenty line pictures instead of the usual sixty lines.

By the close of 1931, there were five experimental stations tolecosting. The five were General Electric in Schenectedy, N. M. C. (E. C. A.), C. D. C., Cimbel Brothers in New York, and Don Lee in Los Angeles. All of the stations used some variation of the mechanical scanning method and a one hundred and eighty line picture. The number of lines was finally reised to two hundred and forty, but this was the sighest degree of picture definition over gained by the mechanical system.¹² The next year all of these stations

bilar sala	Futchinson,	On .	Cit.	20	343.

had discontinued operations. It was obvious why their transmission stopped. The calling for their system had been reached.

During this period of "feeling out" with the mechanicel system, experimentation with on all electronic system was in full force. The iconoscope was in its first form and

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being developed repidly by Zworykin. He elready had his receiving tube, the kinescope, in working order. It had been used with mechanical scanning devices. Another man, Philo T. Parmsworth, was also working on a camera tube which he called the "image dissector."¹² During the whole of 1983 and 1934

12 Lohr, Op. Cit., p. 22.

television was conducted mostly in the laboratories of the verious companies and private individuals. The iconoscope and image dissector were developing for their future use. Their day had not yet come.

The Television Committee of the British Covernment in February of 1935, suggested that a short wave television system be established as a public service. They had investigeted many systems and in 1936 on all-electronic system began a regular schedule of telecasting. The period of programs was not long, but it was regular. The first year the telecerts coming from Alexandra Palace in London wave from nine to ten in the morning and from three to four in the afternoon. This did not include Sundays.

In the United States more expanding was taking place. R. C. A. had announced plans in 1955 to spend a million dollars on some television field tests. Different sized screens and different plak-ups were being demonstrated. The first cognial cable between New York and Philadelphia was

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opened for tests by the Bell Telephone Leborstories. The estimated cost of this line was five hundred thousand dollars. The Don Lee Broadcasting System started public exhibitions of television. On June 23, 1936, the Federal Communications Commission started to hold hearings on the future of television and ultra-short waves. R. C. 4.'s million dollar test started from on top of the Empire State Building.

The year 1937 deceed with many edvances in television. Some of these were the one hundred and forty-one line television by Philos, invention of the electron projection gun for scanning by Zaorykin, and the appearance of the N. B. C. mobile television unit on the streats of New York for the first time. Along with continued tests and experiments in 1938, great public interest in television was eroused when David Sarnoff, the President of the Redie Corporation of marice, announced that television receiving sets would go on sale to the public at the opening of the New York Forld's Fair, April 30, 1939.

Nost writers consider the real starting point for television in the United States to be in 1939 when telecasting began in cornect. Regular schedules were started in New York by N. B. C., in Chicago by Zenith, and in Los Angeles by Don Lee. Sets went on sale to the public at the World's Fair and public demonstrations were given. The industry

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that was starting out was just a child, but it was already starting to walk. It was not a one man invention. It was produced by putting together the discoveries and experiments of hundreds of man.

Pinelly, in July of 1941, commercial television on a 525 line basis was given the go sheed sign by the Federal Communications Commission. There were twenty-one stations licensed in the country, but not all were operating. Things what smoothly for a while and then it happened--Fearl Herbord What would happen to television new? Hutchinson says,

No one knew exactly how our entry into the war would effect television but they soon found out, 12 first the possibilities of the medium as on eld in training sir reid groups and other civilian wer workers was utilized, but the war soon began to make inrords in technicsl personnel and ecuipment. In Jenurry, Zonith discontinued their broedcesting operations. In June, C. S. A. reduced their progress schedule to four hours per week, while Du Font insugurated a regular weekly service. In September, Television Productions began operations in Hollywood and two months later C. B. S. discontinued service altogether. In pril of 1948 e policy of seconting commercial programs produced by dvertising agonales for broadcesting was insugurated by General Stectric and in May the same policy was decided on by Tu Mont. 13

13 Outchinson, Op. Cit., p. 348.

The situation was really at low obb. Old receiving sots were wearing out, and no new ones were being built. Anything that was being produced was sent to the armod forces. The industry needed help on future plans. Finally, the Radio

Technical Flemming Board was formed. They submitted their findings to the F. C. C. in 1944 and steps were taken for a cooperative broadcasting schedule. C. D. F. returned to the air and for the remainder of 1944, 1945 and 1946 programs were broadcast every night of the week by one of the three stations that was operating in New York City.

After the war was ended, television again started to grow. New cameras, new tubes, and scores of other new inventions pushed it chead at a fentastic rate. In truth, the televicion age had started. Sets were manufactured in mode quantities and the amorican public retired to their living rooms to watch the growth of this new "toy." The public now had the wish of hundreds of years-to see beyond the horizon. But no sconer did the public get their wish until they began to such for color television. That called for the scientists to each pick up their tools and stort experimonting. This they did and in the near future it is bood the public will be able to sit in their armchairs and see the color of a besutiful sunset hundreds of miles every as easily as they could by looking out their own windows. That the future bolds for television cannot be seid. It can be said, however, that its future is great. No motter what slove it up or hempers it clong the road, nothing orn stop it or puch it backwards.

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II. BACKGROUND AND HISTORY OF RODIO SPORTS

Redlo sports have been a popular pasting with the American people for a great many years. Many listen regularly to scheduled genes and events. In fact, come of the largest redio midiences are those listening to popular sporting events. The first sport to be broadcast by radio wee a boxing contest between Johnny Rey and Johnny Dundse in Fitteburgh's Motor Squere Gerden. The time was April 11, 1921. Just five months after the Herding-Cox election returns were broedcart by the seme station, KDEA. Three months later the Dempsoy-Corpentier fight was broadcast by VJY with a transmittor in a railroad terminal at Hobokan, New Jersey. The bout took place in Jersey City, New Jersey, and was ennounced by Major J. Indrew White. These first two boxing exhibitions created such public interest that clauat every storting station had some sports brondeerting in its program schodule.

In ugust fourth, and fifth, SDKA created two more "firsts" in sports broadcasting. Number one was the first radio broadcast of tennis. It featured the Davis Cup matches being held at the Allegheny Country Club, Sawickley, Pennsylvania. On August fifth, it was a National Longue basebell game being broadcast for t a first time. For the basebell game, a wire joined the station with the ball park.

On October of 1921, a new station, #JZ, opened in Newerk, New Jersey. It was the first station to officially open in the New York metropolitan area. Its first program contained bulleting from the World Series.

Sporting events have played on important part in the development of redic. They increased the popularity by incrossing the number of listeners. Keny stey-st-home fons began to depend upon radio to bring the contests to them. The involid was placed at the coming of these events into his living room. The first radio network brondcast with PJZ, New York and WOY, Schenestady, was the Forld Series on October 27, 1922. The next day, October 28, WEAP in New York broadcast the Frinceton-Chicago football game from Chicago. It was the first field broadcast to use long lines. On July 12, 1923, the redio audience beerd Firpo defeat Willerd in a heavyweight fight broadcast from Jorsey City by WBAF, Now York. In the second round of a fight broadcast by NJZ on September 14, Despecy best Pirpo. The 1923 World Sories between the New York Yenkees and the New York Gients was done by Graham McNemee over station WEAP. On the initiel N. B. C. const-to-cosat hock-up in 1927, the football game from the Rose Bowl was heard. From 1927 until today the brockcasting of all sports has become a parmement part of program schedules all over the country. Redio has built up many of the sports and they have helped to build radio.

The first ennouncers for these sports breadensts got the job because they could ad lib well. They seen found that ad libbing was not the only quelity they needed. In fact, schetimes the facts of the game suffered because of the announcer's fluid description. Some special methods have been set up by the sportscenter. He now uses "spotters" to help his follow the action in basketbell, hockey, football and sometimes for besedell. Along with "spotters" a "spotting board" was developed. This is a simple card or rollor to enable the play-by-play announcer to get information quickly. A great deal of information must be gathered before breadenst time for next sports. It is this preparation before the game that is of prime importance. In speaking about the weak before a football game, Hel Allen says.

It's like boning for an exam, learning to resocieto - player's name with his number until it's alrost automatic. Also in advance of the game, I'll secure offensive disgrems from the various coaches in order to tell where men are likely to play in cartein situations. This is not to dismiss defensive play entirely, but the announcer, in a sense, is always on the offensive. This is natural because to the listener, advancing is the big thing. Facple are not too concerned with who makes the tackle until after the play is run. They are concerned with who's got the ball, where heis going, how far he went, and who blocks for him.

14 Oiraud Chestor and Garnet R. Oarrison, <u>Redio and</u> <u>Television</u> (New York: "ppleton-Century-Crofts, Inc..), p. 347.

Some sportsonsters have made a name for themselves because of their favoritism toward their home tesm. Generally, this is not a good quality to have. One well known example of favoritism is Bosy Fosewell who does the broadcests of the Fittsburgh Firster in the National Lesgue.

Most noted sportscenters agree that it is necessary to learn the terms or vocabulary of the sport to be broadcest. The listeners will be people who follow that particular sport, and they will be familiar with the popular terms and expect them to be used. In a thesis for the Pennsylvania at the College, Milton Dergstein sets up a fist of principles that apply to general sports broadcesting. They are:

- The sports broadenster must mester the shility to speak quickly enough to stay spree of the ection without slighting enunciation or clarity.
- 2. The sports broadcaster must secuire a cosplete vocabulary of words, expressions, and terms which are applicable to the particular sport he is broadcasting.
- 3. The sports broadcaster must be coupletely familisr with the official rules of the sports which he hopes to broadcest.
- 4. The sports broadcaster must realize the importance of maintrining friendly relations with school officials, coscher, and game officials.
- 5. The sports broadcaster must devote as much time as possible to pre-broadcast properation.
- 6. The sports broadcaster must realize that his pre-broadcast preparation will depend, largely, upon the conditions under which he will be broadcasting.

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7. The sports broadcaster should pass along decisions of officials with no comment as to their accuracy or fairness.

18 Eflton Jerome Bergstein, "A Study of the Technicuos and Principles of Redio Broedcasting of Sports," (Unpublished Ecster's Thesis, The Ponneylvenis State Collego, State College, 1950), p. 89.

Listeners usually full to realize that the beginner in sports broadcasting has a hard road to travel. The sesson in most sports, especially on a local basis, is so short that he is just getting "warmed up" to the job when the schedule is finished. The next year, then, shows a drop in perfection from the last game of the sesson before, but the broadcaster soon gets back to the level of the year before and progresses further on toward a better broadcast. Talter "Red" Barber, sports director of G. B. S., and broadcaster of the Brocklyn Dodger basebell games, gives a word of advice to the sportscaster: "Next mistakes come from carelessness, a momentary track in concentration. The first ersential is complete concentration on your play-by-play assignment."¹⁶

10 Chester and Gaprison, Op. Cit., p. 350.

few points to remember in sports broadcasting sight be at mod. One of the important things the announcer builts to be vital. Do not let the interest lag at any

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time during the contest. Wen when the gime is running at a slow pres. the sportsorater must be repoy and full of interset. expecting the action to start egain any second. The mnouncer must be specific! This means do not dress up the action to be what it is not. In sports broadcasting the listener can always pick out a phony. It is only fair to the listener to give him a true picture of the action. TT the sports ennouncer is really interested in the sport he is brosdessting, he should have little trouble keeping interest in the voice. The interest will be there without any forcing or felsifying. All sports should be exciting to the listener at home. The fret that the unexpected may happen of any time during the contest helps to create this excitement. It must be shown in the announcer's voice too. He is the reporter of the event and should try to bring it to the sudlence so they ploture themselves watching the event. It is not the sports announcer who is the stor of the broadcast, but the sport itself.

The broadcasting of sports has emerged in the middle of the twentieth century as a big business. Its prowth and popularity have been tremendous since its beginning at HDEA in 1921. Almost every conceivable sport has been broadcast at one time or enother and the advartising rights for major sport broadcasts have been in the bundreds of thousands of dollars. It can actually be said that as far as radio goes, sport's the thing.

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III. BACKGROUND AND MISTORY OF TELEVISION SPORTS

In television, sports usually come under the beeding of news or special events. They are considered to be one of the best drewing cards that television holds. When tolovision opened its regular program service in April of 1939, it wes faced with a groat problem. The new wedius was here and the public was ready to accept it. but what type of programe would be sired to fill up the schedule? One of the solutions was the telecesting of sports. Just twenty days efter the opening of the borld's Feir and the opening of regular television schedules, the first sport was telecast. The This was on May 17, 1939 and was telecast by N. H. C. sport was the great American game of basebell between Columbia and Princeton. It was a ten inning game and Frinceton defected Columbis, the final score being two to This first sportscost used the television emerse for one . two hours and fifteen minutes, and only one comera was used at Baker Field. (fter the game got under wey, it was realized that one opears could never cover all of the action in s besedell gene. During this gene the plryers looked like white dote moving ground on the television screen. The playare could not be identified and the viewers could not toll the difference between the two terms. The bal could only be seen on plays in the infield such as bunts close to

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the course. It was the ennouncer who aroud the telecast from being a complete flop. To had to describe the ration and name each player. The umpire was heard most of the time, but the ennouncer repeated the balls and strikes so that the sudience was cartain to hear them. It was found that even when the eye aces what is going on in the rame, it needs acme added description to make the picture complete. Not everyone who views the game is a regular for. They do not know the terms used to describe the action or how cartain plays work. These can be explained by the amouncer. The general public does not know the statistics on each individual player so the amouncer can supply this information. These handled very well by the amouncer in the first telecast of bescheil. He made the telecast a success.

Just three days later, on May 20, 1939, N. B. C. Iended mother television first when they telecast the size day bicycle rece at Medicon Scuare Garden. For this television broadcast, N. B. C. used regular telephone ceble peirs for the local pick-up from the "Gardens."

It must be remembered that during this time England were busy too. They had been offering a regular program schedule since 1936. Many types of programs had been viewed by the public in Great British. On May 24, 1939, they added sports to their list of programswhen they televised the English Derby. The telecast was sent to theatres in Tondon

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who produced the image on a screen fifteen by twenty feet, The admission price was \$2,50 and each thestre was proked with viewers. If the thestre wished to re-brondcest the telecast, the rights cost (1950 for each theetre. This telecast was so successful that the British Brondcasting Corporation introduced sports guite regularly on their programe. The next two to be telecast were tennis and the Crford-Combridge boot races. The reader must remember, hovever, that the British system for television, just like their redic system, is not a comparatel system of free enterprise like in the United States. The British Broadcasting Corporation is the only organization that has the right to brondenet or televise onything at all other then experimentally. The revenue for support of this system is by a tex, rather then the comporaid system used in the United Sates.

Back in the United Clates, N. B. C.'s periods of firsts in sports television wis still growing. On June 1, 1930, the noted fight commentator, Sam Taub, through the facilities of N. B. C. television sutherized by fight prometer, Max Jacobs, brought to the video public the first prize fight to be telecast. Two Galifornis heavyweights, Nex Boor and Lou Nove, bettled through eleven fast rounds; Here samed the victor. Nex Boor left the ring at Yankee Stadius betten and bettered from the event. Only one camere

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wer used for the telecast. This camera, though, was enough to enable the viewore to feel they were sitting in a ringeide sest. Dunlap describes it es:

... the camera had not yet gained the sensitivity that showed puffed lips, a reddening nose, smelling eyes, locarations and bruises. The messiness of pugilism was risking, but television showed regging legs, tiring area, swings that missed, and slams that the target. In extra compre or two for closs-ups from different angles, was all that was needed as a touch of perfection.¹⁷

17 Dunlsp. Op. Cit., p. 140.

Ine week after the Nove-Beer fight tolecest, the R. C. A. Leborstories introduced something new in television that was to make a great improvement in sports telecasting. The new discovery was the improved comers called the "Orthison." This emers gave clarity and don'th to the pictures. It was about four times as sensitive to light as the iconoscope comers. Outdoor pick-ups were improved by more than one hundred per cent. At the same time the lenses on the existing emeres were revemped and closeup shots were new able to be taken from the regular shot distance. Both of these improvements sided in bettering the television broadcests of sports.

During this same period, the Columbia Broadcosting System, with their large studies in the Grand Control Terminal was experimenting with boxing telecasts. They set up an

srens in their studies and used fluorescent lights for illumination. The results were very good. They bud set up an experimental studie in which everything could be controlled but the setion of the fighters. Lighting could be kept at a contain level, the ensure could move any way that seemed best, and even the sudience was controlled. The essere shots held a great doch more interest because of the mobility of the essers. Closer shots could be obtained without having to move rows of high priced seats. These experiments were so successful that the persibility of helding boring contests in studies seemed very fessible. The reason that stopped this, of course, was the larger crowds wanted by the promoter.

After the many comers improvements had been completed, 5. C. 's mobile unit again went to a baseball game. This time it was a big-largue ball game between the Brooklyn Dodgers and the Cincinnati Reds at Ebbetz Field. The game was on August 26, 1939. A new type lens and two comerces were used. This time the players could be seen and recognized. The ball could be followed no matter whether it was a pitch, line drive, or a slow roller to the pitcher. The viewer, watching in his living room, and a better picture of the ball game than the two dollar and forty cent seat. He had a much more intimate picture of the whole contest.

The first footbell gene was teleaset by N. B. C. on September 30, 1939. This ren H. B. C.'s list of firsts in

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television sports to five. The contest was between Fordhem and Seynesburg at Rendall's Island Stadium in New York City. The telecast of this gridiron engagement started an evalenche of football genes in the next few years until new, during the football season, almost every station carries a Saturday afternoon gene. N. B. C. Cound football to be even a little essier than beseball to televise. The ball moves more slowly than the baseball and is larger, thus, easter to follow with the camera. Since the football does move slower, a close-up shot can also be obtained more essily. The first football telecest used two cemeras. One was placed on the forty yard line and the offer was on the rim of the stadium for long, everall shots. This system covered the field fairly well. Naturally, the more cameras there are, the better the telecest will be. This is up to a certain number, of course.

The fact is reclized that, if tes a see going to be televised, they will have to adjust their uniforms for the television viewer, until color television is brought into the picture. The camera makes only a slight difference between colors. Blue, black, and brown lock the same to the viewer, as do red, marcon and orange. Periaps jerseys could be in checks or stripes or even black and white. In wide difference in shading or design would be sufficient to help the sudience differentiate between the two terms.

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The next sport to be tolecest whe hockey. A game between the Rengers and the Canadians was presented on February 25, 1040, from the Madison Scurre Gardan. In the bookey telecast, the compresen roelly get - workout. The puck moved so culckly along the ice that the full strention was required of the compresen at all times. Often it was even a strenuous physical job to keep the coverse moving. The wide-angle lens was used almost all of the time. Things moved too repidly for a close-up lens in the first telecast, was during plays close to the gard. Even with many difficulties, hookey was a well received eduction to the television sports parts.

Three mights later, on February 28, 1940, the first telecest of basketball was sent to the receiving sets in the New York area. The genes from Medison Square Garden, Fittaburgh vs. Fordhes, and the New York University vs. Georgetown were televised. This sport was considered by some to be the ideal television sport. The erest is binited and this makes it easy for the camera to follow the setion. The way the game is set up, moving from one end of the floor to the other, shee helps the television comere. For many of the early this set of basketball, only one emere was used to cover the action. This was sufficient. Other cameres have been broug t to the court, however, to add some variety

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in angle and in distance. Most besketball today is played at a fairly fast page and this keeps the interest of the viewer. The players can easily be picked out by the numbers and followed throughout the action. Hutchinson says that in the televising of bosketball, "the play is easy to comprehend, you see why the stars are stars."18

3.0	4				
فيكا راقيا	Rutchinson,	Op.	Cit.,	p.	202.

The televising of trick was the next sport on the period of telecost sports. As with many of the other sports telecast, Medison Square forden again was the scene of the event. It was the Intercollegiste track meet on the second of March, 1940. Only one camera was used in the pickup, but it did a remarkable job of following sround the track. It was pleced in the center on one side of the arens. From this point it was possible to follow shoet every event with the one camera. Later more cameras were used with better results for the final picture.

Shortly after this period (the exact date is not known) wrestling started to be televised. Shout the televising of wrestling, Eutobinson says:

So far, television has been of advantage to promotors. For instance, many people have never seen a wreatling match. They may have seen part of a bout at their notion picture theatro in the newsreel, and that about ended their experience. The possibility of putting wreatling on television came at a

time when we were recking our breine in a vein endeavor to determine what to do with the mobile unit crew on Nondey night. Out of the blue came the sugrestion, Why not wrestling?' In an endeavor to answer this query, we contacted the powers that be and found that it was entirely possible. The promoter was agreeable at a price within our budget. Fower for the mobile unit was available, they even agreed to let us reise the light level in the ring, if necessary, to get a good picture. And wrestling went on television.

19 Ibid., p. 201.

Wrestling is considered to be the best example of television belping the promotor. Fince it has been telecast, people have flocked to see the sctual metches. Interviews between contests show that the priority of the people who go to see wrostling have seen it on television in some part of the country. It is perhaps the ideal sport for television. The ring is smell, about sixteen feet sourre. The lighting is sufficient for an excellent telecast. The rest of the suditorium is not lit so that the focus is on the ring. The two contestants are almost slways in close contect with each other. All of these frators add up to a sport that has become increasingly popular because of its being broadcest on television and, in turn, has helped to build television sudiences. It has been remarked over and over again that wrestling is one of the best "seting" shows on television. This might be true, but the televiewers enjoy it.

Nith the coming of the Second World Wer in 1941, sports telecasting suffered along with the rest of the television programs. Very little was done throughout the war in any branch of television. Sports telecasting, however, had gotten the start that it needed to insure itself a berth in the post war program schedules.

The first important teleesst of any post war sport was the Army-Nevy footbell game in Philedelphie. It was telecast by WNET in New York on December 1, 1945. The connection between Philedelphia and New York was a coasial cable.²⁰ The following June 19, the heavyweight championship

20 This was the first time a 525-line picture was used connercially. See Appendix.

bout between Joe Louis and Billy Conn was televised from Yankee Stedium by N. B. C. Louis won by a anockout in the eighth round. The telecast was also seen in Washington, D. C., via countel cable.

In Jenuary, 1947, the National Broadersting Company signed a contract with the New York Giants for the telecasting of their home games in 1947. This was the first step toward regular television of besedell which was to result in fifteen of the sixteen major largue terms' home games being televised. The one club which is not televised at the present is the Fittsburgh Firstes in the Sational Lorgue. In 1950, the World Series between the New York Yankees and the Philadelphia Phillies was telecast to an estimated audience of thirty-eight million viewers. There was a seventyseven station network telecasting the games as far west as Omaha, Nebraska. The advertising rights were sold for eight hundred thousand dollars.

Since most sports telecasts are handled by the mobile unit crew, it might be well to describe this phase of telecesting. The first mobile broadcest was in 1939. In reality, the first regularly scheduled television series was done at the Worlds Fair in 1939 with this mobile unit. At that time the mobile equipment was carried in two large trucks or vens. They were cuite large and bulky, but they served their purpose. The first truck contained the pickup and control ecuipment while the second held the transmitting equipment. The combined weight of the trucks was eround ten tons. The two trucks, when on location, were connected at the control truck by a cable. At first, it was necessary to find a power supply nearby for each telecast, but later a portable power supply was carried along. This type of mobile equipment was used for about three years, before it was replaced by portable equipment. This portable equipment was known as "suitcase" geer. It was packed in twelve cases, each containing slightly over one hundred pounds. In using the portable equipment, a control room was

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selected, and from there the cables were run to the comeros. Ath this new equipment the remote men from N. S. C. hed progrossed from two progress per weak to eight or ten per week in 1948.

It is necessary in any recote broadcast to utilize approximately twenty-two people. The necessary personnel are as follows: a director, supervising angineer, two video engineers, one sudio engineer, three ensurance, three sesistant concremen, and two transmitter engineers. This is the total at the scene of the telecast. The other six are needed at the station and the other two at the transmitter.

Before the telecret is to take place a survey must be made by the program producer and the supervising engineer. Each will be interested in finding out certain things. The engineer will check the following:

The power supply
Location for the control room
Location for the antenna
Placement of amble lines
Tost of transmission
Equipment required²¹

21 John P. Royal, <u>Television Production Problems</u> (New York, Toronto, London: EcGrew-Hill Book Company, Inc., 1948), pp. 129-130.

The program director will check on the following:

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old odal adroge to birow shi yrane ille il authoa inemited di .nosigod adi ni bodiation at moletvolod .vomini edi ni a title appoints to complete people. Athony The growth of sports television teday has opened the

home of countless people. However, television will need an increasing number of properly trained and experienced workers who can grow with and contribute to this new reals of sports. How can one go about getting into this field? How can one equip himself for this training? The enswers depend a great deal upon his background, his interest, and his desire to learn about the ways and methods used in televising sports.

The problem of this study, then, is to collect and compile information from a survey of the various ways sports telecests are being done and the many methods used in the telecasts. It would be impossible to set up a list of rules and regulations for the accepted way of televising sports because there are so many different methods used. Wether t en this, it is the writer's desire to set up a guide of Fide to the newcomer in the field of televising sporting events. With this guide the interested person can cuickly and easily find what bee been done and what is presently being done in the telecosting of sports. It will show him the clone and methods that are being used and help him to botter his own ideas on how to telecast sports. Often people have to start into new fields blindfolded. without having the background and information necessory to begin correctly. The purpose of this study is to help sveld sense of these pitfells.

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CHAPTER II

DEVELOPMENT OF THE RESEARCH TROUNICUS

Introduction. In order to facilitate the gathering of information to be used in this study, a questionneiro was set up. The surpose of this questionneire was to uncover some of the different methods used by telecastors tod-y. It essembles information on many different sports and strengts to find out how much telecosting, both live and network, is done by the verious stations throughout the country. The questionnaire endeavors to bring to light the buckground on each sport, that is, how many hours of preparation are spont by the telecester and staff before the finished product can be brought to the viewer. Also included in this is what this proparation consists of such as general statements from each telecator or director about the propertion that he does. Techniques and methods used by the vericus sportsesstors are conteined in the information revealed by the questionnaire. For instance, the extent to w ich the action is described such as during pausos or timeouts, during Julis in setion. cli during the event, and never during the event. The telecosters are caked what is done with comerse and what is talked about during half time, tire outs and in between meteres. They are asked what their subject of conversation is when there is no action taking place in the mont. They

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2.	whet do you telk about when there is no action taking place?
3e	If you use spotters, how do they keep up with the play? No they use spotting boards? If so, what type? Fin? Slot?
1 * *	Do the ormeres ever shew the teleosstor? If so, when? (Check the time or times) Before game or metch During time outs After game or metch During helf or quertor time Shet do you do with the comeres during helf time, time out, or between metches?
3. ≇	Do you ever interview perticipents ofther before or
7.0	be you ever interview participants closer outpro or efter game time? (This means using the camera) Do you direct the camera pickup or is there snother
3.	bo you direct the ormers plokup of is there shother director? If there is emother director, how does he help you make a better telecast?
3 #	Do you usually interview coaches or officials before game time? If so, what information do you desire?
),	How many compares are used for each sport? (Circle the number) Football 1 2 3 4 5 6 Baseball 1 2 3 4 5 6

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21. Are there frooreble or unfrooreble comments on doing redic and television at the same tire, by the same many (Simuleset)

What, would you say, are the m in differences between sports brendessting for radio and telecesting? 22. Do you have any other cassants which you think would be 23. valueble to a person going into this field? Flosse give the nemes of your staff doing sports. 24.

The following note was included with the follow-up cuestionneires:

This is a follow-up cuestionnelre of one originally sent to you. Lerhsps the first one was misplaced or overlooked. I would appreciate it greatly if you would fill this one in and return it to me immediately so that it can be included with the returns from other stations.

I. SETTING UP THE QUESTIONN (INE

In setting up the sports questionneire, the first point taken into consideration was the length. It has been found that a questionneire that is too long will not be returned. This was taken into consideration and two pages was

decided to be the longth used. The questionneire wes prepered on eight and one-helf inch by fourteen inch paper.

The next step was to become familier with the many terms used in television and how it setually worked. A few of these many terms can be found in the Appendix. Naturally there are many other terms used by the various television stations that could be included in this study, but the number would be too great. It would practically take a separate study to include them all. The ones montioned in the Appendix seem to be the most important ones. These definitions are especially essential to the person who is interested in sports or special event telecasting.

The third step taken by the writer in creating the questionnaire was to decide what questions to ask. The type of questions and the questions themselves had to be settled upon. After much thought and investigation had been completed, it seemed best to include both general and specific questions. In the specific questions flets would be directly obtained while the general method of questioning would bring out some of the ideas of the teleosster which could not be gathered in any other way. The first few questions were very specific. They classified the questionneire. They asked for the cell letters of the station, where it was located, who was filling out the questionnaire, and the position that this person holds. All of these points are significent in

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closelfying the questions that have been mewered. The fifth question asked if the station did live sports telecosting. If so, all of the questions would probably be enswered. If not, the parson would enswer through question eight, but he was permitted to enswer any other question from knowledge or previous experience.

Question number six saks how many hours per week are devoted to these live sports. To make it sector for the person enswering and the interpreter, numbers were ploced to circle for the number of hours. The next question, number seven, is a natural follow-up of question six. It eaks what sports are telecast live from the station. This includes a listing of the five major sports that are seen by the viewer and blanks for any other sport that might be included. As own be seen from the questionnaire, the five major sports are football, beschell, basketball, boxing, and wreatling. A few of the others that might be included are track, hookey, tennis, golf, softball, racing (horse and auto) and swimming. In fact, elmost every known sport has been televised by one or more television stations at some time.

So far the questionneire has the information on how many stations are doing live sportscepting and what sports are included. Number eight asks how many hours a week are designated to any sports program (eg.--notwork, sports news). This will include a variety of slows, most of them fifteen

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minute productions. After question number eight, only stations who do actual live telecasts were to answer. The rest of these questions were dealing specifically with live telecests of the various sports.

Perhaps one of the most important items is often overlooked by the individual she listens to redio sports or watches a telecast of his favorite sport. This is the work that is necessary before the program can become a reality. The broadcaster or telesaster spends the majority of his time at this. A football telecast which only takes between en hour and two hours to produce may have had as near as twenty or thirty hours of work behind it. Questions nine end ten cover this pre-gene work. Number nine sake how many hours of pre-geme preparation are used for each sport. Blanks are included for sports other than the five major ones. Number ten sake for a short description of what is done and covered by this preparation. In this manner, each individuel tolecaster is given a chance to list the steps he takes in proparing for a sport and the information that he is interested in finding out. This is the general type of cuestion that was talked about before in this chapter.

What does the questionneire want to find out now? What is important in the technique of the many announcers? On what do they differ greatly? The answer to this is when they talk, how much they talk, and what they talk about.

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This is probably the main substance of any technique, per se. The next section of questions, then, will cover this problem. Number cloven sake to what extent is the action taking place described? It lists four possible times as being: only during pauses or time outs, only during a lull in the action, all during the event, or never during the event. The person enswering the questionn ire is asked to check the times when is describes action. Humber twolve follows up cloven by asking what is talked about when there is no action taking place. Later in the questions, speech during other periods is covered.

The next point to be covered was how the sports aunouncer on television keeps up on the play or action. The majority must use spotters. Do they use spotting boards? How do they keep the announcer informed? Question thirteen asks these questions plus what type of spotting board is used--pin, slot, roll, steaters.¹

1 These torms are explained in Chapter Three.

How many of the productions of sports show the telecestor on the screen? Fourteen asks this and slee when, if at all, the telecaster is picked up by the campre. The times listed to be checked area before the game or setch, during time outs, after game or match, during half or cuarter time, during game or match, between plays, and between matches.

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These are the only times the telecaster might be shown during a sporting event.

The person interested in telecreting will went to know what is being done with the comores all of this time. The section storting with fifteen concerns the use of the camera both directly and indirectly. Fifteen cake what is done with the comers during half time, time outs, or between metches. Naturally with this question, as with most of the others, the expected answers were kept in mind when writing the question. Such enewers as interviews, comporcials, crowd abots, atc. were expected. Pollowing up the idea of these periods of time, sixteen is "What do you talk about during this helf the, time out, or between matches?" Then, since interviews ere expected to be given by some as the use of this time, seventeen goes on to find out whether or not participents are over interviewed either before or after geme time. This refers to an interview before the cameros.

Another point to be considered is who does the directing. Some of the sportscasters direct their own shows while others have a station director doing the job. The latter is probably preferable in most cases. The play-by-play man has enough to do watching his information and the players. He cannot pick up all of the little things from a monitor screen. Eighteen, then, eaks who directs the camera pickup and if there is mother director, what does he do to help make a

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better telecret. How about lest minute changes in line-ups or the feeling of a corph or official before the contest begins. Is this important? Question mineteen is, "Do you usually interview conches or officials before game time?" "If so, what information do you desire?"

Boing back to the comerse spain, the quantion arises as to how many compares to use for a specific sport. This will probably very with each individual sport. When sports telecrating first started only one camere was used. After the first few telecrats, it was realized that one camere could not cover any sport adequately. Today the average number of cameres is from two to five, somewhere in between. Twenty questions the number of cameres used for each sport. The five major sports are listed and blanks are left open for any others.

Come television stations : ave tried doing simulcasts. simulcast is when the play-by-play is corried both by redio and television. It is the same man doing the broadcast and the telecast. Some simulcasts have been favorable and others unfavorable. To find out a) at the general opinion on these is, question twenty-one was included.

Everyone knows that there are a great many differences between redio and television. However, it should be of some value to find out what the man in the field think. What do the sportscraters believe the main differences are between

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radio broads sting of sports and tolevising them? These difforances abould probably be supposted in the training of a person for telecasting of sports. This is covered by russtion twenty-two.

In the twenty-third question the television sports ennouncers are given a chance to unburden themselves. Next people in a job or field have a great many suggestions to give to someone who wants to so into this field. A collection of these sugrestions and idean would be valuable to anyone who wants to take up this line of work. That is what has been done in question twenty-three. The telecastors have been saked if they have any comments which they think might be valuable to a person going into the field of sports telecasting.

Thus the cuestionneire, after revisions, was sent out. Copies were mimoographed and signed by the writer. A short letter was included at the beginning of each cuestionnaire to introduce it to the reader.

II. THE MALING LIST

It was now time to send out the questionnaires. The complete list of stations (both radio and television) is given in the <u>Broadessting and Telecoting Yearbook</u>. The 1951 edition of this magazine was obtained and the call letters of the stations listed. Hong with the listing of

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stations is included the address of each station and the different directors. This information was gathered for the meiling list. If the station had a sports director listed. the mostionnaire was sent to that person. If there are no sports director, they were sent to the special events director. If neither of these were listed, it was mailed to the program director. The questionnaires were sent to all one aundred and seven television stations operating in 1951. Twenty-five edditional questionneires with short notes attached were sent later to some of the stations that did not return a questionnaire in the first group. From the first group, thirty-nime wore coburned. This is probably the majority of these doing live telecesting of sports. The additional twenty-five were sent to stations that had a sports or specific events director listed. A note ves etteched coying that perhaps the first questionneire was overlocked or mispirced and if this one was returned imaedicooly. It would be included with the returns from other stations when tobulating the results.

Thus the questionnaires were completed, the saling "ist drawn up, and follow-up questionnaires sent out. The results that will be covered in the next chapter began to come by return mail. The complete mailing list can be found in the ppendix. The preliminary work was completed and the final step was putting the results into a readable form.

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CHAPTER III

RESULTS OF THE CONSTLORN THE

This chapter on the results of the sports telecasting questionneire will be divided into three sections. The first division will be the introduction to sports telecasting and the introductory work performed by the sportcaster or the station. The second section will be on the sotual telecast itself. This includes all that is done by the sportcaster during the telecast of the event. The third division will contain general information about the station, the sportcaster and the field of sports telecasting.

I. INTRODUCTION TO SPORTE TELECATING

As stated in Chapter II, two groups of cuestionneires were sent to television stations in the United States. The first group included all one hundred and seven stations doing tolecesting at the time of this writing (June, 1951). From this group, or Group A as it shall be called, the returns numbered thirty-nine. This was a thirty-six per cent return. Group B, the second group sent out, included twenty-five questionneires to stations that had not enswered the first group. Only four questionneires were returned. This meant a sixteen per cent return for Broup D. The total number of stations, then, was one hundred and seven. From this one

hundred and seven, a total of forty-three questionnaires were returned. This can be seen in Table I. It gave a total of forty per cent for all of the returns. From the forty-three television stations reporting, thirty-one stated that they do some live sports telecasting. By this live telecasting is mernt & sports preserve directly originating from the station. It does not include any network sports telecasting. Two other stations stated that they waren't doing my live telecesting at the present time, but they had done some in the past. A list of the stations doing live sports telecating can be found in the "ppendix. The percentage of stations doing live telecteing is seventy-two per cent. This means that almost three fourths of the stations do live sports. Of course, some of the stations i we network sports shows and other sports shows that are not return live telecrate of the sporting events as defined. In fact, only six of the stations reporting stated that they had no sports at all in their progrow schedule. Frobably most of these also have sports but neglected to complete the questionnaire. The total number of hours per week as reported by the thirty-eight stations carrying verying escunte of sports, was two hundred and twoniyfour hours and twenty minutes. This can be found in Table II. This everages out to six hours and fourteen minutes for each station. Noturally to live telecating origination at the station is only a small frection of all the sports tolecasting

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being done. This is so mainly because of the many network telecasts of sporting events. These telecasts are then sent to the various stations under the wing of the network. Hesides network telecasts there are numerous five, ten and fifteen minute sporting news shows from the stations which help to make more sports time. Twenty-five stations, however, reported a regular number of hours for live sports telecasting. This can be found in Table TIT. The total number of hours given was one hundred and eighty-two hours and thirty minutes. This makes an average of seven hours and eighteen minutes of live sports telecasting for each station doing live telecasts. Several stations reported doing live telecasting but said that their schedules varied too much to give an everage number of hours.

Henry sports are being telecast by the stations today. As was mentioned in Chapter I, slmost every sport thought of by man either has been or is being telecast. From the quastionneire it was found that mineteen sports are being telecast at the present time. Table III shows this. These nineteen sports are: football, besedell, besketball, boxing, wrestling, roller derby, gelf, stock car mees, bookey, herness racing, sute racing, best racing, five hundred sile race, softball, track, bowling, here racing, tennis and lacrosse. Of these sports, besketball is the most popular. It is telecast by twenty stations. Football and baseball

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TABLE III

NUMBER OF TELEVISION STATICHS ORIGINSTING SEGET: TELECISTS

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hold second place, being telecast by mineteen stations. Testling is reported by seventeen stations and boxing by fourteen. The other sports that are telecast range from four stations down to one station for five of them.

Chapter I states that before the telecast begins necessary stops of preparation must be taken. One of these steps is to decide upon the equipment required for the telecret. This includes the number of comerce to be used. The questionning returns gave reports of comerce used for fifteen of the minetoon sports. Table IV shows the compra listings. They renged from one comera to a maximum of six comerse. One station said that they only used two compres because they only had two! Pour strtions reported the use of only one compre. Oddly enough, these four stations used the one camers on four different sports -- football, besketball. boxing and wrectling. The general opinion, however, seems to be that one comera does not give an interesting and varied teleesst for my sport. /bout this Dunlop says, "Immediately it was apperent that a long long could not cover basebell a seattered action and acreage. The players looked like white flies' scempering ecross the screen."1 Even when an improved

1 Orrin E. Dunlep, Jr., The Future of Television (New York and London: Harper and Brothers Publishers, 1942), p. 142.

camore was used, different shots could not be obtained. For

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PABLE IV

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NUMBER OF CAMERAS USED BY TELEVISION STATIONS FOR THE FORTS TELECAST

* Number of stations placed in the blocks.

one station reported using 5 cemeres.

eve One station reported using 6 compres.

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mobility, oither two or three comerse are needed. If a piesuccess to please the viewer; therefore, two or three camera is a definitie advantage to the viewer. The objective is, easensure is not please the viewer; there of bectve is, easensure is a definity used.

we to any tol nothers one of pean ereaded with ever

scatting of golf. The everage number of comerce used for each sport are: football--three; besebell--two; besketbell--two boxing--two; recting--two; roller derby--three; besketbell--two c;ree; bost recting--two; five hundred mile recond-con golfc;ree; bonte--three; hores recing--two. It can be seen that chree; two or three creers are needed for the successful either two or three creers are needed for the successful either two or three creers are needed for the successful either two or three creers are needed for the successful either two or three creers are needed for the successful

e successful tolectet of any sport goes the properstion that the sportsoester himself such make. This properstion usually sportsoester for station ESA-7V in Fort North, fores, says the sportsoester for station ESA-7V in Fort North, fores, says "Propert important step to be taken by the telecaster is to, "Propert important step to be taken by the telecaster is to,

just before the metch. It is needed before any perconstrongts to start in either the broadcasting or telecesting of eperts. One qualification is the vecchulary of the

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particular sport being telecest. This includes words, expressions and terms. The sportsesster must be able to use the language of the sport he is telecasting. Audiences today have come to accept this and to expect it. Another requisite is for the telecester to be familiar with the rules of any of the sports he expects to telecest. He cannot carry a rule book with him to the event and expect to take time to look up every infraction that occurs. These two are the most important <u>semeral</u> prerequisites for a person who expects to do any sports telecesting et all.

The pro-game properation discussed in this chepter, however, will be the apocific properation that takes place a short time before the actual telegest. It is the time taken to aether all sorts of information for the telecast. Frimerily. It refere to the time epont by the telecrator or bis steff and includes a vide variety of information. The time spont on this properation veries greatly with each sport and each telecaster. The range is from fifteen minutes to thirty hours. The deteiled number of hours own be found in Teble V. The average smount of properation for each apart reported is as follows: football---eight and one-half hours: breaball -- four and one-half hours: besketbell -- four and onehelf heurs: boxing--two fours: prestling--two hours: roller derby--two hours; golf--ten and one-helf hours; stock car recos--two and one-half hours: outo recing-four hours: five

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TABLE V

PRE-OAME PREPARATION FOR VARIOUS SPORTS BY STATIONS

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[•] Rumber of stations placed in the blocks.

hundred mile rece--thirty hours; bowling--four hours; leaross --three hours; tennic--five hours; softball--four hours. These everages are taken from the returns of the questionneires.

More important then the mount of time spent is what information is gathered. One account of the variety of material gathered is given by Bud Sberman of WBAP-TV. He says that the emount and type of proparation varies with each sport and with the nature of the event. For high school football, since it is entirely local, a lot of investigation into the hobbies and telents of the players is needed.

College football necessitates a concentration not only on outstanding performances but also a larger file of background material on players from the television station's area.

Besebell requires a constant day-by-day office complition of statistics, particularly about the pitchers. Batting everages and other statistical information must be kept up to date on a day-to-day basis using newspaper box scores as source material.

Basketball, both college and high school, require less pro-game work than most sports because of the small number of players on each team. Some statistics, however, must be kept up to date. Individual scoring, individual and team averages and fouls are some of these statistics.

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For boxing Sherman says that NBAP-TV concentrates mostly on the personalities of the contestants. Naturally their records are important but since Sherman does only ametour bouts, the records are not nearly as essential. For professional boxers, records are of greater importance.

Mr. Shermon take if wrestling is a sport or just a spectrole as it sooms to be on most stations. He states that it is WBAP-TV's most popular television show and that after doing wrestling shows for more than two years, no propagation is necessary. He late the events call themselves.

Bud Sherman concludes by saying that in all sports he has found that the fame are interested in sidelight stories on the participants. For this reason it is important when doing pre-event work to concentrate not only on statistics but also on the backgrounds of the individuals. He believes that about eighty-five per cent of the work in telecasting a sporting event is in the preparation. These comments by Mr. Sherman show the importance that the majority of the sportseesters place upon the preparation before an event.

Mother sportecester, Jay Earrington, of station NDAF-IV in Kaness City, remarks that pre-game proparation consists of mostly background on participants and team records. He has found that viewers enjoy knowing not only the apparent things about the sthistes but also whether they're married,

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hew many childron they have, what they do during the offseason, any unusual vocations and the like.

Other stations report that many other matters of importance are included in the pre-game preparation by the sports staff. Such things as satting up and practicing commercials, memorizing players numbers, gatting specific formations and plays used, making out scotting charts and tags, sponding time at practice and training, checking on possible line-up changes and physical conditions of the players, reading newspapers, talking to players, conferring with spotters, writing up pre-game material, investigating history of the teams and the event, inspecting the field or gym with respect to television arrangements and the preparation of background material are all important to the successful eports telecast.

When asked whether they interviewed coaches or officiels before gene time, eighteen stations of the thirty one stations reported that they did. Nome items were severed by these interviews with coaches and officials that were not included in the provious listing of pre-geme preparation. Each of the information covered personal opinions of the coaches or human interest information about the players or the coach himself. Officials were usually asked about the interpretation of some rule not familiar to the telescator. Some of the points sched of the conches were the condition of

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II. THE TELECONT

The first point to be taken into consideration for the sctual sports telecast is the director. It is important to know whether the telecaster is doing the directing or whether someone else handles the job. The results from thirty-one stations who answered this question show that usually there is mother director to handle the camere pick-up. See Table VI for these results. This means that the smouncer does not have to concentrate on all of the comerce but just the one that is doing the cotusi pick-up. He can then concentrate more upon his own duties. It also meens that the director oan aid him in making a better tolocast. One stop which directors sometimes take is to have a pro-event conference. At this conforence the announcer and director can plan the telecast and talk over what to do if something unexpected heppens. They can also review the last telecast and go over what might have been right or wrong. Different comore shots and styles of coverage can be discussed. Some stations reported that the director helps the encouncer by looking for color and other unusual items. Even when under the stands he can inform the teleouster of coming shots from his proview ecreen. These stations state that the director should not be looking for artistic crases shots but should watch for good shots that the announcer misces. One of the main duties

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TABLE VI

tetions Doing Live ports Telecasting ^e	Annou ncer 1s Director	Other Diroctor
	n an	
VBRC-TV		an a
n j zo-TV	**************************************	
WATV		¥5.
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This-IV		
WTOP-IV		X
言語理想の思想	Not Completed	
to all th		1473) 1473)
WITV		X
TIBO		53.34 C.1.4 C.1.4
WFBM-TV		Ĩ.
WTCH-TV		X
FEXT-TV		2ª
WDAP-TV		
THER-TV		x
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Tr-Ore		
SXYZ-TV		
	X	
		3 6.
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A VA B - JA		X
WOR-TV		s.
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的Castor Alta Non-T.A		274 1927: 1944
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TOT ALS - 32	2	<u>ė</u> e

DIRECTION OF SHORTS TELECASTS

* WGFO-TV size does live telecesting, but they did not complete the questionnaire.

44 Are not doing live telecesting at the present time.

listed for the director is to be able to enticipate the comera shots that will be easing up so that he knows instanteneously when to change from one creers to enother. The director must also aue the cameres so that they follow the amouncer's nerration. Nost of the stations seld that the director should be as familiar with the sport being telecast as the encourcer. Some of the duties just listed show why that is true. Heny of the stations stressed the importance of the teamork or cooperstion between the announcer and the director. Most of the stations reporting had telephone or aimilar systems of communication between these two. This enables either one of the two to call the other's stiention to an interesting camera shot that should be picked up. The director on talk to the smouncer over the telephone system. and the ennouncer orn mention a shot over the sir. The director will pick up the end suitch cameres. All of these points listed are inportant if there is to be any coordination between the audio and video sections of the television broadcost. It is especially necessary to work closely together with audio and video in sports telecasting. In other types of programs the two are united without any trouble at all. For instance, in a drame show the lines and action so together. The same is true for vericty shows. Tra eports toleoceting, however, it is possible for the encouncer to talk chout something that is not on the serven. It may

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be on mother every or not being shown at all. This would be very districting to the viewer at his television set. He wants to see and know what the announcer is telking about. It is very important, then, that the announcer and the director work very closely together not only during the actual sports telecast, but also before and after it.

The next important question that must be decided by the sports telesster is whother or not he is going to interview perticipents of the sport either before or efter the event. The question was snarered by thirty-two stations. Twenty-eight of the stations reported that they did interview perticipents. Only four reported that they did not. One of the stations stated that they interviewed hoskey players between periods rather then before or after the contest. Several of these enewering stated that only outstanding people in the sports field were into viewed. In telecasting wrestling, interviews are entremely popular. Not only interviews of the wrestlers but cleo fone who come to see the mutches are cut before the sereen. They usually interview fone during intervierion time (the time just before the feature motoh) and efter the feeture metch, they intervies the winner. Other sports have seen the popularity of the wreatling interviews and have adopted them too. As just stated, elmost every station now uses the interview either before or efter the event, or natch.

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The telecreter of any sport has many duties to perform. To relieve him os some of these duties, he may use a spotter. It is the spotter's job to keep the telecester informed throughout the event and to keep come statistics. Such things es substitutions, who has the ball, injuries, who is the teckler, who makes the goel or score, how much is gained and many other feets are kept by the spotter and transferred to the suncencer. To facilitate the spotter in getting information, a spotting board is used. There are two basic types of spotting boards. The first is the pin type spotting board. This system includes a separate tape for each player. Written on the type is the player's name, beight, weight, ago, class, home town, position, and whether or not the player is a lettermon. Rech tape is placed on a board under the position the player is expected to play. Fins are placed beside the tapes of those in the grae at any perticular time. If a player is substituted, the pin is switched from the tape of the player leaving to the tope of the perticipant coming into the event. In this semmer the ennouncer or spotter con, at my time, see the complete list of portloipente.

The other mein type of spotting board used is the slot type. For the clot board a card is made up for each player. The same information is placed on the card as on the tape for the pin type board. The cards are then placed in a clot for each position with the one perticipating on top. When a new

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player comes into the gene, his card is placed on the top of the pile. This type is thought to be better by the ones using it. They say that it helps the sportscenter since he can only see the cards of these playing and not everyone's card.

Electrical systems are also used by some stations. As a rule these boards are much more complicated and larger than the others. They are usually set up so that the spotter and the announcer have corresponding boards. The spotter pushes a button on his board and lights the information on the announcer's board.

Mother system reported used was the roller system. This type is similar to the slot board. There is a roller for each position on which tapes are placed. On these tapes are the same information about each player as on the other boards. The rollers are placed under a slot which shows only one player at a time. Thus, the roller type also shows only the players participating at any given time. This roller type, however, is more complicated to make and usually takes up more space then either the pin or slot board.

Spotters else help the ennouncer to keep statistics up to date during an event. Most telecesters keep some of the statistics themselves but cannot find time to keep them all. The spotter must keep some of them svallable for the sportscenter at any time during the telecest. Some sports ennouncers profer to have a separate man to take care of the

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etatistics. Whetever method is used by the term doing the telecast, it is important that the announcer get the statistics that he wants when he needs them.

Twenty-three of the television stations doing live sports telecasting use spotters. This is reported in Table VII. Only nine stations said that they do not use spotters. Out of these twenty-three stations, thirteen gave a preference for the pin type spotting board. Four of the stations use the slot type and three the electrical board. Only one station reported using the roller system. One station said that they use merely a card system and mother said that only a scorer is used for besedell. Some stations use more than one type of board.

Naturally the spotters job varies alightly with the sport, but there is essentially the same objective. The objective in the stimulation to the ennouncer in the cuickest and essiest memor.

The television sportseester together with the director must decide whether or not the comerce are going to show the telecester at any time. If there are interviews before, during, or after the event, the telecester will be shown at these times. Often times he is shown during the event teo. This must be decided before the contest takes place. In enswering this on the questionnaire, t inty-one of the stations reported that the sportseester was shown by the comerc

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TADLE VII

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UES OF SPOTTERF FED PROTTING DEVICES FOR TRIEVISION SPORTSCACTING

tations Wing Live	Number Veing	Numbor Veing	Number Veing	Number Veing Other
olecseting	Spotters	the second second state data and an an and second s	Slot Bornds	and the section of th
ny na sana na s Na sana na sana n	na na provinski stalova poslak se na s		a da antica di secondo	
	23	15	4	5

at some time. Table VIII shows this. Some of the returns stated that the announcer was shown at different times. Twenty-one of the stations reporting show the telecester before the geme or metch. Most of these are during interviews or pre-game line-ups. Twenty-one stations also reported that the announcer is shown during pauses or time outs. This also includes half time, quarter time or between matches. Some of these times include interviews and others are when the announcer is giving team background or color. Fifteen stations show the telecaster after the game or match mainly for interviews and receps of the event. Only six stations, however, show the announcer during the event. This shows that the event is of greater importance than the person who is telecesting the event. The action on the field or in the gym is the subject of the telecest and should be broken up as little as possible. The fan wants to see what is happening rather than the ennouncer telling about it happening. As the figures show, there is a trend toward showing the telecaster. For the first few years the telecaster was never shown unless he was interviewing a celebrity, but today he is appearing oftener and oftener on the television screen.

One of the greatest problems for the sports telecester is how much to say and when to say it. Methods and styles that were used on radio have had to change for most of the sports. An example of why this change was necessary is

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TABLE VIII

Esillan Narian Anna Anna Anna	Stotion	n an	Stati		Show	ing And and Tim	duncer A
Strtion	Showing Announcer	Before Gene of Match	P en	800	(After Same or Setch	During Orme or Netch
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	Yee	De.		X			
SXX-TV				a X			
19 32- IV	Yos	463		A X		X	
SPIL-IV	Yee	R					× .
W ATV	Yes			X			
sda f -tv	Yee			X			•
krtv	Yoc			笈			
VCI-TV	Yes					X	
SREN-TV	Yes		y Tim				day - tr
BAL-TV	Yes					X	X
etop-tv	Yoc	X		X			
RATE	Yes	X		X		and the second sec	X.
VT-4183	No						
KRID-TV	Yoswo						
NS AZ-TV	Yes	X		X		X	
KPRC-TV	Yes	X		X		X	X
STTV	Yes	X				-	
SPALTY	Yes	X					
	Yes	A A		4 . 7.		X	
CBS-TV	Yes	w =	ponds	010	19mm m		
GFBB-TV	Yos		ldom	*19.2	en Brann ar a	6	
a AVE-TV	Yes	1.198 201	P 430 2.42 2.42 2.22				
and a very service of the service of	10s	r Z		X		<i>4</i> 3	X
sor-TV	Yes	2 m		X			406
	i ver Voq44			<i>2</i> 4			
KEXI-TV							
real-TV	Yea	1. 1.				16 ²	X
SBAP-IV	Yes	X		X		X	病
NOV	Yee	X		X			
FRBR-TV	Yes	X		X		nast ⊒Pa	April
exy z- TV	Yes	X		S.		X	X
許具 ()諸	Xos	X		X		X	
SSPO-TV	Yon	X	ale and the ale and a final state	X	internal a call o activity - parameteriza	Х	und in a supply a supply to the sufficiency of supplying the supplying the
Po T Alis	31	21		21		15	6

CAMERAS SHOWING THE MINOUNCER IN TELEVISION SPORTSCASTING AND TIMES SHOWN

* WCPC-TV does live telecasting else but did not complete the quest(onneire.

"" These stations did not report specific tises for showing the announder.

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explained by Hutchinsons

In an early experimental broadcast a special boxing bout wes steged in the studio for executives of the broadcesting stations, the consport of the contestants, is portant figures in the world of sport, and merbers of the proce. A top flight commentator took over the microphone and the match started. No. one enticipated that day what was to happen though we might have, had we projected curselves only alightly into the future. The gong sounded, the contestents come into the center of the ring, and one of the boxers promptly punched his opponent in the eye. The recipient of the blow took a lusty swing and missed. This all beppened in less time than it takes to tell. I how often have we read and heard Here we saw it happen, for the announcer in that? is best redio style went on something like this. There goes the gong--the two men come out of their corners, they spar for a minute, they are just feeling each other out--och--a left jeb to the eye--a becuty," What satually happened was that the blow was struck while the amounder was saying the two men came out of their corners. I This procedure went on throughout the broadcest and when the setion was repid the announcer was from ten to fifteen seconds behind the sction.

2 Thomas H. Butchinson, Here is Television (New York: Hestings House, 1950), p. 210.

This experience showed how different sports are when presented to the rudience through a television comera.

Nost teleconters have adopted the technique of explaining the picture to the sudience, pointing out things that are not too closer or that might be misunderstood by the viewer. One teleconter says that the less telking that is done by the ennouncer, the better. He is of the opinion that the ennouncer's voice is distructing to the viewer. Another states that the sportscenter should only identify, orientate or emplify the action of the sport being televised. Thenty-five of the stations reported that the telecoster telks at some time during the event. Five other stations sold that it depends upon the event. The majority of the ennouncer's description, though, comes during pauses, time outs and when there is a hull in the action. At these times the ennouncer can give any pertinent information. Identification of the players and telling some of the interesting facts about each individual is practically a necessity for any successful sports telecast.

That is talked about when no action is taking place is very important to the sports telesseter. This is the time when the belocast could lose interest to the viewer so the announcer has an important duty to perform. One of the main subjects of conversation at this time is the commercial sponsor. The second important subject as reported by west of the stations is color of the game. Nany stations move the compares about to show the crowd. Often the subjects can pick out people of i portence so that the sudjected. Background on the players and teams is given. Scores from other events can be re^ported at this time. Other topics are: human interest on players; events in the future; records of the teams and players; odditios; current or past items of

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interest; and the band if one is present at the sporting event.

During helf time, time out or between metches the seme problem is present. The mnouncer again has the job of keeping interest. Namy of the stations do this by having interviews of noted personalities who happen to be at the event or perhaps have erranged to be there for the purpose of on interview. Even members of the teens competing in the event are sometimes interviewed during half time. Esturelly, cgain commercials take up so a of the time. During helf-time in foutball, special festivities take place. Tress are followed by the cameres and commented on by the ennouncer. This usually takes up most of the half time. In other sports there is usually nothing scheduled at this time and it must be filled by the announcer and cameras. The mnouncer can recap and analyze the game. Sporte demonstrations orn be given by an export. The camera very often picks up the telecaster who might give an interesting anesdote pertaining to the sport being "elecat. Nost of the subjects that were listed for times when there is no setion are spulleable here alro.

Many topics are presented during the telecast by the announcer. It is his job priverily to identify players and action and to amplify cortain bits of action or strategy that might not have been understood by the viewer. One

\$757

writer says that the sportscenter should be sort of an encyclopedie to the person watching the sport. The announcer should have all pertinent facts and information about the sport being telecart. In fact, one sportscaster stated that the ennouncer should have a great deal more information them he would ever use. This is necessary because the ennouncer never knows just what facts and figures he will need. The more information he has, the better the telecast will be. This does not mean that the announcer must give out this information all during the telecast like a machine that can't be shut off. Only when something is not clear or when more information might add to the interest of the viewer, should the telecaster attempt to describe or anplify.

III. GENERAL INFORMATION

The majority of the television stations use the ennouncer's limited amount of description for sports. Inother type of television sports broadcasting is a simulcast. Doing a simulcast is when the announcer broadcasts the sport for the radio ind television sudiances at the same time. It entails a complete description of the event by the ennouncer. When asked whether a simulcast was favorable or unfovorable, fifteen stations reported that it was unfavorable, eight said that it was favorable and eight either had no comment or had never tried it. Mr. Charles Tapley, aports

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director of station NBRC-TV, said that they tried a simulcast only once and were practically ridden from town on a rail.

The opposite reaction was presented by station WOI-TV in Ames, Towe. Mr. Dale Williams, sports director, reported that after doing the girls state b sketbell tournament, they asked how much description was wanted. The results were one thousand to zero in favor of the complete play-by-play. They said a simulated was easier to follow in basketbell and footbell.

Station WOT in Omake, Nebraska, soid that for one year they telecast the Nebraska University football games as an experiment and the radio play-by-play style was very successful. ETTV in Bloomington, Indiana thinks that a simulate is very formable. The only problems are the commercials. They are given easily over the radio but usually switch to the studies for the television commercials. Another favorable reaction is presented by NS-Z-TV in Nuntington, West Virginia. They find it very successful beommer their play-by-play man is fast enough to accurately keep up with the oution. Unless this is true the television audience will suffer.

Other Stations commented that a simulcast was favorable, but added no further information. Most of the stations who did comment made it clear that to do a successful simulcast, the announcer must have the right technique. He must

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be quick enough to stay on top of the play throughout the event. It is not possible for him to log behind the action since the television audience is wetching what happens too. This makes the telecaster's job even more difficult. The spotters must be on the job to keep the ennouncer supplied with the information that he needs.

It is interesting to note the differences in style and technique between radio broadcesting of sports and telecasting. It must be remembered that many of the sports teleersters did radio broadcesting before doing telecasting. This cualifies them to give a valuable judgment.

Cherles Tapley, sports director of WBRC-TV, stresses the fact that in radio the announcer paints the pictures, and in television, he explains details of odd nature. Station WATV in Newark, New Jersey, says the cost is greater, more personnel is needed and different techniques in announcing are used. Many stations stress the fact that in television the ennouncer must be accurate, but he has more time to be sure of his facts. This is true because camera action keeps the program alive when there is no voice. In radio the announcer has little time to check on facts. He cannot pause to look something up and leave dead air. The voice is of prime importence in radio. When it isn't there, there is nothing. Television has sound and picture.

Stations report that there should be less descriptive

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wordege in television and more pointing up of strategy. The opproach is much more intimate since the telecaster and the viewer are both seeing the same event. The announcers feel that a sportscast such be securate and factual. A viewer wetching the game cannot be told that something he soos is something else. On radio exeggerating and coloring of the event can take place and often does. Another reason for the informality of the telecast is the fact that the viewer is comfortable and at erse in his living room. The telecaster must conform to this patiern.

The mejority of the sportsensters also feel that they must be coreful not to insult the intelligence of the person who is watching. In other words, the obvious must not be described!

Television announcers explain and interpret the sotion for the fan. Hany stations have remarked that the announcer should not telk too much. If he does, it annoys rather than interests the person wetching. The primary duty of the sportscorter, then, as given by the majority of the stations, is to only supplement the camere.

The verious telecostors size made core interacting comments that would be valuable to a person who intends to go into the field of television sports. The importance was straceed of having a full knowledge of the sport that is to be telecost. Kr. Bernie Brocher of W/VE-TV exphasizes this

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when he says:

For a person entering tolecosting of sports, it is understood that a thorough knowledge of sports is essential. Other than that I'd hope I had a good vocabulary and glib tongue (To me it's herder to speak infrequently as in TV, then to hold a running commentary as in radio.) a quick verbal response is mendatory--you have to stay shead of the crowd and the picture.

Dick Gottlieb, sportscastor for station MPRG-TV seys:

The sports director of station WOV, Jack Pryns, thinks that the most important training for a sportscatter is theory courses in college on the different sports and actual perticipation in the sports.

Bob Swysgood of station WEX-TV emphasizes that:

Sports fons are the most suthoritative and critical viewers and listeners in the world. To televise baseball, you must know the game theroughly. A skilled knowledge and avid enthusiasm for sports must be combined with suick reflexes and a learned sense of artistic production values. There is no short out to being a director, for example. This is true especially in sports where an apprenticeship in the game and as a comermon is best.

Probably the two points stressed most by the many stations were a thorough knowledge of the sports and for the sportsoester to give the true picture. Many commented that a phony can sloways be picked out. In television where the fan sees the game too, it can't be built up to be what it isn't.

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Since the writer thought it would be valuable to have a list of the sports staffs from the various television stations, this list can be found in the Appendix of the study. They are listed elphabetically by station. To the writer's knowledge, no list of this sort has been made up.

Many important items were covered in this chapter. The importance of pre-game proparation was stressed, the subject and amount of reporting that the announcer does and other parts of the setual telecast were discussed. Also, comments were reported on the differences in technicus between redie and television sports broadcesting and information valueble to a person hoping to go into the field of sports telecasting was listed.

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CEAPTER IV

SUMMARY AND CONCLUSIONS

The purpose of this chapter is to summarize the findings of the study and to list the conclusions that can be reached.

<u>Summery</u>. In Chapter I it was noted that the word television originated when a French librarian was filing material on the electrical transmission of pictures. Three names were given to this process and the librarian invented "television" to cover all three. This was an unusual beginning for a word that has become so popular today.

Definitions by many of the writers on television were listed and discarded as being too eleborate. The definition then presented was: the transmission of active pictures electronically. This simple definition was felt to include enough for the purpose of this study.

Many of the important events in the history of television were given in Chapter I. Some of the outstanding ones will be reviewed now. Printional electricity was discovered in 640 B. C. This opened a new field for scientists to investigate. After a great deal of theory work and experimentation, the first machine using this new type of energy was developed. The machine was the sir pump invented by Otto von Guericke in 1650. From 1850 until 1800 many discoveries were made in the science of electricity. Miestrical transmission by hemp line and the voltaic cell were two of the most important discoveries. Many great scientists were born during this same period. Franklin, Volta, Morsa, and Faraday were four of the most important.

In 1827 the first "microphone" was constructed by an Englishman, Charles Wheatstone. Its purpose was to suplify work sounds. During this same period Horse began to experiment with the telegraph and in 1944 he began operating the first telegraph line.

As early as 1856 decigns were sent by telegraph. The first transationtic cable was used in 1858. Experimentation was started on the wireless in the 1860's, and Bell invented the telephone in 1875. Communication was progressing repidly.

Directly related to television were the discovery of the properties of anthode rays by Crockes and the invention of the television scanning disc by Paul Nipkow. Both of these hestened the development of television.

Marconi startled the world in 1895 by sending and receiving the first wireless signals. During the next few years Marconi kept experimenting and improving the wireless until it crossed oceans and mountains and became one of the greatest sefety devices on the ses. Fessenden, mother

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wireless experimenter, sent the first voice by this means and radio began. Marconi predicted that a "visible telephone" was possible, and Sarnoff outlined a system of public broadcaste using a "radio music box."

The first experimental radio station was operated by Do Forest in 1916. The pioneer station of the world began broadcasting in 1919. This was station SXX later to become HDEA in Pittsburgh. Nemy other stations opened, and the first network broadcast took place in 1982.

During all of this radio growth, television was growing too. In 1923 Dr. V. K. Zworykin had a complete television system working. He used a kinescope picture tube and the iconoscope pick-up tube. Baird and Jenkins in England were working on mechanical systems at the same time. These mechanical systems used variations of Mipkow's scanning dise. Parnsworth in America filed a patent for an electronic television system and the Bell Telephone Laboratories demonstrated wire television. The first transatientic television took place when Baird's mechanical system televised Mrs. Mis Hows in London. She was seen in Hertsdale, New York.

Back in the United States station WOY started the first regular program schedule. Three doys each week programs were sent from Schemestedy, New York. In 1928 they telecast the first complete dramatic show.

The Bell Telephone Laboratories demonstrated a very

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orude system of color television in 1929. The picture received was about the size of a postage stamp. Sires were used and the length was only from one end of a room to the other. This was a start for future developments, however.

Five experimental stations were telecesting by the end of 1931. Three of these were in New York City, one in Schemestedy, New York, and the fifth in Los Angeles. All of these five stations used some variation of the mechanical comming system and were off the sir the next year due to the limitations of this system.

The British government suggested in 1935 that a short wave television system be established as a public service and the ell-electronic system was used. In 1936 a regular schedule began from Alexandra Palace in London.

More development was taking place in the United States. The first coaxiel cable between New York and Philadelphie was opened for tests. Different sized screens and different pick-ups were demonstrated. The Federal Communications Commission started hearings in 1956 on the future of television and ultre short waves. R. C. A. began million dellar tests from the top of the Empire State Building.

Two isportant steps were taken in 1937. First, Dr. Sworykin invented the electron projection gun for scanning and second, the N. B. C. mobile television unit appeared on the streets of New York City for the first time.

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In 1938 Devid Samoff, President of the Redio Corporation of America, caused a great deal of interest when he announced the public sole of television sets at the New York World's Fair the next year. With this announcement came the real beginning of television in the United States. Regular schedules were started again in New York and Los Angeles. Zenith also started telecasting from Chicago with a regular achedule. Commercial television was approved in July, 1941, by the Federal Communications Commission. Twenty-one stations were licensed in the United States.

Television was now getting a good start. This start, however, was interrupted by World War Two. Esterials and manpower became scarce and most of the stations discontinued service. The Redio Technical Planning Board was formed to help the industry in future planning. They submitted their findings to the F. C. C. in 1944. Cooperative telecesting was the result. One of the three New York stations telecest programs every night of the week for the rest of the war.

After the war, many new inventions and improvements on the compmont being used gave television a new growth. The scientists again went into the laboratories to work on color television. In the near future it is heped this will become a reality.

Sports have been popular on both radio and television. Redie sports have a definite bearing upon television. Hany

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of the methods used in radio have been carried over either in part or whole to television sportseasting. Many of the radio play-by-play sumewoors have switched to television for either part or full time.

Some of the important events in redic sports were described in Chapter I. The first sport to be carried by redic was boxing. This was in 1921 by KDKA in Pittsburgh. The fight was between Johnny Ray and Johnny Dundee, and it was held in Pittsburgh's Notor Square Carden. Three months later station WJY broadcast the Dempsoy-Carpontier bout from Jarsey City in New Jersey.

A great deal of interest was shown in the first two sporting events on radio. This stimulated almost every starting station to do sports broadcasting. Tennis, baseball, and football were soon broadcast by many stations and enjoyed by the fams. The first network broadcast was the Forld Series in 1938.

Sports broedcesting has become a regular segment of the program schedules of stations screes the country. The sports have built up radio listening and radio has belowd the popularity of many sports.

The ennouncers in sports brondcesting have developed methods and techniques that were not previously used. At first only the quality to ad lib seemed necessary. Innounceers then realized that other qualities were necessary.

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Spotters were used to help the broadcaster follow the action. Spotters are people who inform the sportscaster of action and statistics. Spotting boards were used to get information quickly. These are mechanical devices to keep information easily and to see this information quickly. The importance of pre-game preparation was stressed. This is the gathering of information and statistics for use in the broadcast. The best collection of principles was listed by Bergstein. They are important enough to rephrese:

- 1. The broedenster must speak cuickly enough to keep up with the sotion.
- 2. The broadcaster must know the words, expression, and terms of the sport.
- 3. The broedcester must know all of the rules of the sport.
- 4. The broadcaster must understand the importance of good relations with school officials, corches, and game officials.
- 5. As much time a possible must be devoted to prebroadeset properation.
- 6. The broedcester must realize the importance of broedcesting conditions.
- 7. No comments should be made on decisions of the officials.2

¹ Milton Jerome Bergstein, "A Study of the Techniques and Principles of Radio Broadcasting of Sports," (Umpublished Master's Thesis, The Fennsylvania State College, State College, 1950), p. 89.

Other points that the writer feels necessary for the

sportscestor to remember wores

- 1. Bo vital.
- 2. Don't let the interest log.
- 3. Be peppy and full of anthusican,
- 4. Be specific.
- 5. Give a true picture of the cetion,

Sports have become a big business in the twentieth century. Almost every station has broadcast some sport and special networks have been set up for a lot of the sports.

One of the top television programs is sports. In October, 1950, sports held third place on television evening program schedules. Twenty and three-tenths per cont of the time was spent on sports.² Only twenty days after the

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2 Broedcesting Telecesting, 1981 Yearbook Rumber, p. 30.
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opening of regular television service in 1959, the first sport was telecast. It was a basebell game between Columbia and Princeton. Only one camera was used. The announcer saved the program by doing a good job of description. One camera was not enough to produce a good telecast. The six day bicycle race from Madison Square Garden was telecast three days later.

In 1939 Great Britian also started telecosting sports. Their first sport was the English Derby, and it was sent to thestres in London. It was very successful. They next did

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tennis end best races and sports were included in their reguler schedule within a short time.

Boxing was tried in the United States with one comera and was accepted, but the sportscenters realized that two or more comeras were needed. Besebell in the major longues was telecast using two comeras and an improved lens. The sudionce received a very intimate picture of the event. It was highly successful.

Football, hockey and basketball were well received by the television viewers in late 1939 and cerly 1940. These too were listed on the future schedules. Treek and wrestling were started with wrestling becoming one of the meat popular television shows. People began to flock to the wrestling aranes to see these stars of television. The area and lighting for wrestling made it an ideal sport for television. There is close contact claest throughout the complete match. This makes it easier for the compres to follow.

Television sports suffered slong with all of television with the coming of World War Two. However, sports were popular enough to be sure of a place in post war television. This can be seen today with fifteen of the sixteen major league besedell terms being televised. Many college footbell gemes can be seen on video while wrestling, boxing, and other sports are very popular sloo. The 1950 World Series had an estimated television audience of thirty-eight million viewers.

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Host of the telecests of any sporting event are handled by the mobile crew. This was described in Chapter I. The first regular telecast from the Worlds Fair in 1939 was handled by the mobile unit. In these days, the unit was carried by two large trucks. One truck held the pick-up and control equipment and the other the transmitting equipment. At first it was necessary to find a source of power supply but later they carried a portable supply with them. This type of equipment was used for about three years and then portable contenent replaced it. With this new equipment eight programs a work were averaged in 1930 by the remote men from N. B. C.

Approximately twenty-two people are necessary for a remote broadcast. The necessary personnel listed were: a director, supervising engineer, two video engineers, one sudio engineer, three comersmen, three essistant comersmen, and two transmitter engineers. Two engineers were needed at the transmitter and four at the station.

Before the telecest the program producer and the supervising engineer must make a survey of the sport's location for essere position, plecement of cebles, location of the control room, location of the power supply and other such items.

The mobile unit crev today has the job of telessting many of the major sports contests, news events, and public

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interest events. Equipment is steadily improving and making their job essior.

Chepter I concludes by stating the problem of the study. Simplified, it is to set up a guide to mid the novice in sports teleassting. This guide will also help him to avoid some of the faults in beginning sportsecsting.

The technique for research that was used in this study was the questionnaire. Following are several important steps which were taken in setting up the questionnaire:

- 1. The length of the questionneire was determined.
- 2. The toemical language of the subject was learned.
- 5. The material to be covered was decided upon.
- 4. The questionnaire was worded.
- 5. The questions were checked for definitonese.
- 6. Some of the questions were revised.
- 7. A molling list was secured.
- 8. The questionneires were welled.
- 9. Pollow-up mestionnaires were sont.

Questionneires were sent to the one hundred and seven stations tolecasting in the United States. From the one hundred and seven, forty-three were returned. Thirty-one of the forty-three reported doing live telecasting of sports. It must be remembered that this live telecasting means originating from the unit station as contrasted with films and network shows. Sincteen sports are being telecast at the present time. They are: football, besebell, basketball, boxing, wreatling, roller derby, golf, stock car reces, bookey, hermose recing, auto racing, boat racing, five hundred mile race, softball, track, bowling, horse racing, tennis, and lecrosse. The first five listed are done most often. Basketball is televised by twenty stations, football and baseball by mineteen, wrestling by seventeen, and boxing by fourteen stations. The rest of the sports are done by from one to four stations.

Two or three cameres were the average number used for telecasting any sport. This number gives a varied and interesting picture to the viewer at all times.

Before a person oven attempts to do a sporte telecast there are two important qualities that he must have. He must know the words, expressions, and terms of the perticular sport he expects to telecest. He must also be familiar with the rules of the sport.

The proparation that the telecoster and the sports staff do just before the sportscast is important. This preparation ranges in time from fifteen minutes to thirty hours. The detailed number of hours preparation for each sport can be found in Table V.

Some of the important items covered in pro-game proparation by the sports stoff are: presticing commercials, getting beckground on perticipents, memorizing players'

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numbers, making out spotting charts and tags, spending time at practice and training, talking to players, reading newspapers, conferring with spotters, writing up pre-game material, investigating team and event history, and inspecting the field or gym.

Coaches and officials are interviewed by eighteen of the thirty-one stations. Many types of questions are asked. Some of these items can be included in pre-game preparation. A few of the important ones are: the condition of the team, coaching problems, injuries, ground rules, and special stories. It is especially important to keep good relations with coaches and officials. Their cooperation is necessary.

In sports telecasts most of the stations use a director other than the telecaster. The director helps the announcer by anticipating shots and calling the announcer's attention to something he might have missed. It is important that the director be as familiar with the sport as the sportscenter. Tesmwork between these two is absolutely necessary.

Almost all of the stations interview participants of the particular sport being telecast. Most often this is before or after the event.

Twenty-three stations use spotters to help the announcer keep up on the action. Most of them also use spotting boards. The pin type board is most frequently used.

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١.

This type is explained in Chapter III.

T a telecastor is shown to the viewer by thirty-one of the stations. Before, between and after events are the main times for this. Only six stations reported showing the telecastor during the event.

East sportseasters talk at some time during the event. The amount of description varies with the event, but it usually only explains the minimum to the sudience or adds to it. The event is of prime importance not the ennouncer. When no estion is taking place, the first subject of conversetion is usually a commercial. The next frequent subject that the announcer uses is the background and color of the event. The game is comparished. During helf time interviews and special festivities are the two main subjects by most of the stations. It is important for the sportseester to have a wealth of information to talk about. He should have much more than he will over use.

Sight stations do simulcaats of sporting events. For trees the announcer must stay on top of the stion at all times. He cannot leg since part of the sudience sees the event too.

The main difference between doing sports on radio and television is, of course, that on television the fan can see what is happening. The main difference for the announcer is that in radio he must paint a picture, while in

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television, he explains the picture that is siready seen. The obvious is best not described. The primary duty of the telecaster is to supplement the camera.

The two main suggestions given to a person interested in the field of sports telecasting are to have a thorough knowledge of the sports and to give a true picture of what is happening.

<u>Conclusions</u>. A list of conclusions can be drawn from this study. This list includes the most important items to guide the person who expects to go into this field. They should help him to become a better sportscepter.

- 1. Two or three comerce ore usually used for a succonstul sports telecast.
- 2. The eportscreter must be familier with the vocabulary of the sports he expects to telecest.
- 3. The sportecastor must be familiar with the rules of every sport he expects to telecast.
- 4. Pre-game propertion is of prime importance.
- 5. Friendly relations with cosches and officials are necessary for their cooperation.
- 6. A system of termvork between the director and the telecaster is a must.
- 7. The majority of the stations interview perticipants either before or after events.
- 8. The majority of the stations consider it essential to use spotters and spotting boards. The most common spotting board used is the pin type.
- 9. The telecast should explain or add to the picture. He should exphasize the event, not the announcer.

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- 10. When no ection is taking place the ennouncer usually talks about background material, commercials, receps the event, or gives color descriptions.
- 11. During helf tipe or between events the sportscastor usually has interviews or describes special fostivities slong with the four importent items montioned in Number 10.
- 12. It is necessary for the sportscenter to slyays have more information on hand than he will need.
- 13. The main duty of the announcer is to supplement the essere.
- 14. The announcer must have a therough knowledge of every sport.
- 15. The sportscapter must elvays give a true picture of what is happening.

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GLOSSARY OF IMPONTANT TELEVISION TERES

Cemera - The unit containing the eye of television for a light-sensitive pickup tube which trensforms the image into electrical impulses.

Coaxiel orbie - Specially built orbie used to transmit the television signal. It has a low a loss of power at the video frequencies.

Pield pickup - / transmission of ony out-of-door event using a mobile or portable unit.

Frame - One complete picture. There are thirty of these a second.

'Iconoscope - The camera pickup tube consisting meinly of an electron gun and photosensitive mossic plate enclosed in a vacuum. This is used in the R. C. A. television system.

Image-orthicon - The supersensitive comers tube which is capable of picking up scenes in semiderkness. It takes only about one-fourth as such light as the isonescope.

Interlacing - The scanning of each 525 line picture in two sets of elternate lines with electrons. This is done to eliminate flicker.

Einescope - A catalode-ray tube with a fluorescent screen used to reproduce the television picture in the monitor or receiving set.

Line - One scenning line corose the television picture with high lights and shedows. Each picture now contains 525 lines.

Link transmitter - A redic relay transmitter which can be used to achieve a television network. It is also used as a booster for a remote pickup.

Nobile unit - Field equipment, either in trucks or portable, for remote television pickups.

Monitor screen - The control kinescope used by the director in television.

Hemo - Any broedcast originating in a place other than the studios.

- Crthicon In extre-sensitive to light essers tube used for subdoor pickups.
- Perebola A direction microphone : cunting used in picking up bend music, crowd noise, cheering, et ceters.
- Fortable unit Special field equipment usually proked in suiterses, or what are similar to suiterses only larger.
- Reels The reels used on mobile units to hold comers osbles and other wires.
- Ring mike The microphone that is over the ring st boxing and wrestling to pick up ring sounds, such as referees instructions.
- Simulcast Hedio and televicion at the same time, by the same war.
- Special events My program of news interest such as sporting events, paredes, et ceters.
- Stand-by Snything hold in reserve to be used in case of an emergency.
- Switch Hove from one camera to smother or a change of camera angles.
- Talk back A phone circuit from the ennouncer to the director on outside broadcasts.
- Wide-angle lens Lens having a wide angle of view. It will pick up a very broad area.

SPORTS STAFFS AT TELEVISION STATIONS

REVI.	Jim Shelton
Kmpv	Ployd Kelber
rercTV	Bruce Leyer Paul Boesch Dick Gottlieb
RRIDUT	Che rlie Boland Eddie Borker Vos Box
1(#Tr	Reito Hoyt Dick Brey Bob Gilmoro
ETV	Robert Brøckner Forrester Mehbbir
is a Am	Nick C <i>o</i> mpofreds Psul Kano
IT ATV	Fred Sayles
e vae-la	Bernie Bracher
WD AL-TV	Jerre Wyett Joe Bough <i>e</i> n
WD IP-TV	Bud Sherman
BRC-TV	Deve Overton Vic Betson Horsee Penelli Ted Books
WCBE-TV	Red Borber John Derr
"DAR-TV	Jey Berrington Rendell Jessee
wpaa-tv	Lerry Dupont Cerl Menn George White

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5 FDX- 7V	Dick Fittenger
S PIL-IV	George Welsh
WESN-TV	Dick Grossam
VJZ-TV	Herry Wismer Vic Batson Horsee Panelli Ted Rooks
MK T~IA	Bob Swysgood Bill Hyden Bill Fountain Bob Surphy
WILK C	308 H111
VM/R-TV	Chuck Thompson Beiley Coss Mett Thomas Ad Wienert
THDR-IV	Herry Telbert Paul Acosto Bill Terry
NOI-TV	Dalo Milliams
rou-la	Roy M oredith John Horetmenn Relph G iffen
TS AZ-TV	Jeck Bredley Bert Shimp Jack Hurst Jemes Perguson
FILM IV	Rollie Johnson Dick Sievert Merv Conn Jim Shelton
WTOP-TV	Jim Simpson Arch McDoneld
t.T.Y	Nex Skirvin Jeck Noel Bob Young

	Bob Hyons
A STREET	Prod Wolf Don Settrick Bob Barphy Caris Brinke
	B111 McBride

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MATLING LINT OF TELEVISION STATIONS

KDNL-TV KDNL-TV	Salt Leke City, Utch Los Angeles, Collfornia	
	Son Antonic. Texas	义义带带
HPI-IV	Los Angolos, California Esn Diego, Celifornia	
RFMB-TV	San Diego, Čelifornis	
RCO-TV	Sen Francisco, California	
KINO-TV	Seattle, Feshington	
KLAC-TV	Los Angeles, California	
VISIT	Omeba, Nobreeka	XX
**************************************	Los Angeles, California	
FOR-TA	Alburquerque, New Mexico	
KOTV	Jules, Oklehoms	X
KPHO-TV	Phoenix, Arisons	
CP IX	Son Francisco, California	
FPRG-TV	Houston. Texes	XX.
ENLD-TV	Houston, Texas Dolles, Texas	XX
RECE-TV	San Prencisco, Celifornia	22
Y.9.0-57	St. Louis. Missouri	
K91.TV	Salt Leke City. Dich	
COTP-TV	Selt Leke City, Dtsh St. Foul, Einnesote	XX
KTLA	Nollywood, Celifornia	
	Hollywood California	
	Los Angeles, California	ale of
WAM	Baltimore, Maryland	XX
F ABD	New York City, New York	
VAPN-TV	Birminghen, Alebane	
A AG ALTY		
N ATV	Atlente, Georgia Hewark, New Jersey	
WE-TV	Toutavilla. Rontucky	XX
WBAL-TV	Louisvillo, Kontucky Baltimore, Heryland	XX
SB/P-TV	Fort Worth, Texes	XX
BREATV	Buffelo, New York	10 ° 10 W
VERB	Chicago, Illinois	
VBSS-TV	Columbus, Ohio	
WBRC-TV	Birminghen, Alabera	XX
WB-TV	Cherlotte, North Carolina	1237 B.15
WBZ-TV	Boston, Messechusotts	
S CAR-TV	Philodelphia, Fennsylvenia	
WOBS-TV	New York City, New York	XX
rcpo-TV		XX
NDAP-TV	Cincinneti, Obio	an XX
PDET-LA	Konses City, Elecouri Vilmington, Dolewere	44 F
n strangtan y A	s) to transford of interaction of the second s	

" X means questionneire was returned.

"" XX questionnaire reported doing live telecesting.

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WDSU-TV	New Orleans, Louisians	**
ADIA	Pittsburgh, Pennsylvanie	X
TENN-TV	Pittsburgh, Pennsylvania Chicego, Illinois Cleveland, Chic	
		SH
WPAA-TV	Delles, Texas	\mathbf{X}
WFELL IV	Indicaspolis, Indicas	XX
WPIL-IV	Philodolphic, Fennsylvonia	XA
HFEZ-TV	Greensboro, North Carolins	X
NO AL-TV	Longestor, Pennsylvania	
WOR-TV	Chicego, illinois	
SH MANTY	Rochestor, New York	
SHAG-TV	Louisville, Kentucky	
STREF-TV	Rock Island, Illinois	X
	Syracuse, New York	XX
VHTO-TV	Dryton, Ohio	3. nya 6.
VICU	Brie, Fennsylvenie	
KJ ACTAA	Johnstorn, Pennsylvania	
	www.charan Scarte 783 and	45
NJ AIMTV	Providence, Rhode Island	
SJAN-TV	Jecksonville, Floride	
WJBK-TV	Detroit, Mehigen	
JIK-TV	Lensing, Elchigan	10. (+ 10.)7
TIZ-TV	New York City, New York	XX
WKRO-TV	Cincinnsti, Ohio	
NEIV	Utice, New York	
VICT CONTRACTOR	Oklehome City, Oklehome	XX
WKZO-TV	Kalemasoo, Kichigan	
WLAV-TV	Orend Repids, Michigen	
BINC .	Columbus, Ohio	XX
SIND	Dayton, Chio	
NINT	Cincinneti, Onio	
WHAL-TV	Weshington, D. C.	
NMAR-TV	Beltimore, Moryland	XX
WYBR-TV	Jocksonville, Floride	N.
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and a first stand of the stand	Binghanton, Now York	
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THE	Chicogo, 111inois	
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WO AI-TV	Son Antonio, Texos	
7.0 0-TV	Devenport, Iove	
F03-TV	Anes, Iowa	XX
WOR-TV	New York City, New York	XX
WOR-TV	Omahe, Nebraeke	X
WP IX-	New York City, New York	
WPTZ	Philodelphia, Pennsylvenie	
BRCB .	Schencotedy, New York	X
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81 B D+7V	Toledo, Ohio	
	Syreeuse, New York	
TT ARA TT	Borfolk, Virginia	
TTCH-TV	Winneepolis, Winneeote	
	Milweuhoe, Sisconsin	
WICE-CV	Ceshington, D. C.	
A State of the second se	Reshington, D. C.	
H THE F	Eloomington, Indiana	
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ATTI	Columbus, Ohio	
	Alchmond, Virginie	
	Detroit, Michigen	
ta AI.	Cloveland, Chio	
WXY2+TV	Detroit, Michigon	XX

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