MID-SUMMER EDITION



The Magazine that Doubles the Pleasure of Radio





Radio Theory in A-B-C Is Radio Commission Impotent? Has Ollie Ross 1309 Verifications? Cuban and Canadian Experimentals

RADIO THEORY MODERN PRACTICE

A New Book in Simple Terms—Profusely Illustrated

Just off the press, here is a book that we believe every person interested at all in Radio, ought to have. While the veriest novice can easily understand its simple explanations, yet it is a book which an experienced radiotrician will find of the greatest value.

The chapter on *Radio Principles* explains the radio wave from its birth at the transmitter to its conversion into sound at the receiver. Numerous pictures and sketches enable the reader to grasp each stage. There is a list of the necessary technical words with their definitions in simple language and a list of the symbols used in radio diagrams with their meanings fully explained.

The chapter on *Vacuum Tubes* is, we think, the most simple and yet complete exposition of the principle and operation of radio tubes we have ever seen. The difference in tubes is fully explained and the reader learns not only the use and characteristics of each tube but the purpose served by each prong. Not only is the screen-grid tube covered but the new five-element as well.

In Principles of Receiver Circuits ten different systems are described and explained, from "Regenerative" to "Super-heterodyne with second harmonic oscillator."

A chapter on *Radio Circuit Diagrams* gives the schematic diagrams for many of the prominent sets including Super-Zenith, General Electric, Bosch, Super-Wasp, Silver Marshåll, Grebe, Stewart-Warner, RCA, Atwater Kent, Majestic, Stromberg-Carlson and others, with explanations of each and where to look and what to do for trouble

The chapter on Short Waves is not only a complete treatise on short-wave theory and practice, but several well-known short wave sets are diagramed and explained. Other chapters which we can mention only as indicative are Aerials, Loud Speakers, Radio Instruments, Broadcasting Transmitters, Radio Troubles, Television, etc.

> This book of 224 pages, printed in large type, bound in flexible cloth will be given to our readers

FREE For Two Annual Subscriptions

We have secured a number of these books for those of our readers who will help us in this way to increase the field of RADEX. You can earn a copy in a few minutes by telling your friends about this magazine.

We do not sell the book

MID-SUMMER EDITION







Editor and Publisher

SEVENTH YEAR

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CONVERTING Vibrations Into SOUND

S described in the last issue of RADEX, radio-frequency waves, which are picked up by the antenna of your receiver, and are amplified by means of vacuum tubes, cannot be converted directly into sound waves for the conveyance of speech and music, because their frequency, or rate of vibration per second, is too great; it must be converted into trains of lowerfrequency waves before they can be transformed into mechanical impulses by the loudspeaker and this transformation takes place at the detector. Here the electrical impulses, although much stronger than the original r. f. impulses, are still too weak to be applied to a loudspeaker, but are able to actuate the mechanism of headphones. For loudspeaker operation, still more amplification is necessary, and this accounts for the audio-frequency stages in modern receivers, which strengthen the electrical impulses to such an extent that they can effectively operate a loudspeaker.

The conversion of electrical energy to sound is accomplished primarily by means of one or more electromagnets. An electromagnet is merely a coil of fine wire wound around a soft iron core, and electrical current passing through the coil magnetizes the core, the strength of the magnetism varying in unison with the strength of the electrical impulses passing through the coil. In the case of headphones an iron or steel diaphragm placed near the end of the core is pulled toward the latter when the electromagnet is energized, but returns to its normal position in the absence of the magnetic pull.

Now suppose that there are 256 separate electrical impulses per second traveling through the coil. The core is then magnetized 256 times per second and it attracts the diaphragm at the same rate.

A diaphragm moving forwards and backwards emits a distinct sound, which in this case happens to be the pitch of standard middle C on the piano. To understand that the diaphragm produces actual sound by such rapid move-

Fourth and Last Article in A-B-C

ment it is only necessary to reflect that it works in exactly the same manner as a drum, which, upon being hit with a drum stick, moves backward and forward, producing sound. The sound waves are somewhat of a mystery but really rather simple. The movement of the drum head of the diaphragm sets the air in contact with it in movement at a corresponding rate. Each particle of air transmits its movement to the next particle and in this way the vibrations are sent out in all directions. But these vibrations do not really become sound until after they strike our eardrums, to which delicate nerves are connected and here is a transformation, which no one has ever explained, namely, how the mechanical vibrations of the eardrum change into nervous vibrations, which are sent to our brains and there leave an impression, which we call sound. Nevertheless, this is exactly what happens.

How Speaker Works

In getting back to loudspeakers, the basic principle on which the various types work is exactly the same, but the mechanical details of construction differ. A cone speaker is one that has its diaphragm connected to a large cone by means of a drive pin, so that the movement of the diaphragm is communicated directly to the cone, which being of much larger size than the diaphragm, sets a larger column of air in motion. As the cone type of speaker has replaced the horn type because of better tone quality. so the dynamic speaker has taken the place of the cone type. The reason is that the dynamic speaker gives better reproduction due to more equal amplification of low and high tones and less distortion than a cone speaker. Besides, a dynamic speaker is capable of delivering much more volume. It differs radically from the other types of speakers in that it has a small, light, movable coil attached to the apex of the cone directly

in front of the core on which an electromagnet is wound. So there is no mechanical connection such as a drive pin. The small coil, or voice coil, is attracted or repelled by the electromagnet on the core, depending on the amount of current flowing through the voice coil, this current being supplied by the receiver through a choke coil or output transformer. The cone of a dynamic speaker is mounted so that there is maximum space for its movement, without the use of any springs or pins to retard it, which helps to make possible the undistorted low tones.

Purpose of Baffle

The front part of the speaker frame is fastened securely to a board which serves the purpose of a baffle, a circular hole being cut in the board to fit over the cone of the speaker. The reason for this is that rigidity is desired in order to prevent sound waves emitted from both sides of the cone from neutralizing each other and destroying the low frequencies. The baffle can be made of soft wood or soundproof insulating material to eliminate vibration as much as possible. Theoretically, a large baffle is better than a small one, although the latter should be solidly fastened to a frame or to the edge of a cabinet in which the speaker is housed.

Electrostatic speakers convert electricity directly into sound waves without the use of heavy electromagnets, movable drive pins and diaphragms. Essentially, such a speaker is nothing more than a condenser, two flat plates separated by a thin sheet of insulation. In the form in which it is being produced, it consists of an aluminum stamping with the edges turned back about threequarter inch. The face of the plate is punched or perforated and over the face a sheet of insulation, only one fivehundredth of an inch in thickness, is placed. A thin metallic coating is sprayed over the surface, or a sheet of foil glued on it. A single plate can be used as a complete speaker or any number of plates may be bolted together through holes drilled in the flanges. In operation, one side of the radio-receiver output goes to the metallic plate and the other to the metal or foil coating, which forms the diaphragm. In addition, a positive bias of 450 volts d. c. must be applied to the aluminum plate.

* * *

Thus ends our story in a-b-c language of the theory of radio.



The Town Clown

Dave Elman revives the character of "The Town Clown" on lize programs heard every Wednesday over the CBS from 10.30 to 10.45 p.m. EDST. Elman, who is writing the script for this program, created a following several years ago in the same role.

[3]

GREAT RECORD Arouses SKEPTICS

But Ollie Ross Has Verifications

R ADEX has no desire to try to decide the world's championship in DXing nor even to pass upon the merits of those seemingly eligible to the title. If, however, anyone desires to enter the lists, he will have to bring in about every station in the world in order to challenge Ollie Ross, of Vallejo, California. For the grand total of the California expert now amounts to 1309 stations, all in the broadcast band. His verifications are so voluminous and convincing to those who have examined them that they do not hesitate to grant his claims to this astounding total.

Now and then there enters every art and sport some person who takes to it so naturally as to achieve unquestioned leadership. Lindbergh flies as naturally as other people walk. Golf to Bobby Jones is simply second nature. Johnny Weismuller literally swims like a fish. Here in Cleveland we have a young girl, Stella Walsh, who runs so easily and naturally that she is now the fastest girl in the world. But none of these champions rose to the heights without the most infinite preparation and painstaking practice, When Queen Victoria spoke to Paderewski of his genius, he is said to have replied, "Ah madame, it is but drudgery."

There is but little doubt that most of us could become great athletes but the desire to do so is not great enough to lead us to undertake the vigorous and consistent drudgery to that end. Only the one in a million has this desire in such proportions as to sacrifice all other interests to his ambition. And it is this one, naturally, who succeeds. So it is in DXing. The one who succeeds is not the one who works at it now and then. He works at it all the time. He takes pains with the most minute detail. He knows that every tube is right, that every joint is perfectly soldered. He tries every possible combination of ground and aerial. He is literally "toiling upward in the night."

From the Los Angeles Examiner we quote the following by Thomas Nunan, Radio Editor:

"Ollie Ross, of 337 Virginia Street, Vallejo, may be accepted as the DX champion of the world. Some months ago I told about his remarkable record, after examining his hundreds of verification reports.

"Last week Ross wrote a letter in answer to a question raised by one of the readers of this paper, and incidentally he mentioned that the number of stations tuned in by him had reached 1,309.

"That's coming rather close to the total number of stations in the world.

"The Vallejo champion, in the communication published Thursday morning, mentioned JOKK, a new Japanese station on 427 meters, as coming in well, and he suggested as a severe test that the fans try for ON4ED, Antwerp, Belgium. He said he was sure some of the local DXers could tune in on it. The station is on 206 meters and the announcer speaks English.

"While writing the foregoing paragraphs, I received a letter from W. H. Daniels, Box 170, Chowchilla, California. Mr. Daniels is skeptical, and no one need wonder at that, about the accuracy of the Ross log. He writes:

Our D X friend at Vallejo reports a log of 1,300 stations. I have just received an up-to-date, revised list of all the stations in the world and there are only 1,213 of them. Where did he get the other 87 stations

If he counted the short wave stations, then there are just about 1,300, so he has evidently had every station on this old world of ours. I would like to find out he gets a 5-watt station in Vermont.

"The Ollie Ross record, Brother Daniels, is 1,309 stations, and Ross tells me that no short-wave broadcasters are included in his list. At first I, too, felt some skepticism about the Vallejo log, as I could not find enough stations to accord with it, but the great mass of verification reports convinced me. There seems to be a good many stations not



listed in the American log-books; but how the Vallejo DXer discovers them remains a mystery.

"Mr. Ross has just forwarded to me another large consignment of astonishing, even bewildering, verification reports. They are in all sorts of foreign languages, though most of the writers of them use some English. One communication is typed on a letter-sheet headed "Trondelag Krinkaster" with the date-line "Nidaros, 23 Oktober, 1930." And here's the main part of the letter:

Ollie Ross, Mr. or Miss, I don't know:

I've got your letter and thank you very much. To get a message from far away in California to a relaistation in Norway is quite curious and I'm cautious to know the situation of your receiver when you heard us.

Any photo from our studio I gladly should have sent you if I had one, but no photo is by hand so you must take only this illustrasjon.

"The 'illustrasjon" was a rather clever caricature of singer and pianist before the microphone, as sketched on the letter by the station program manager—or "programsekretaer," to be exact. "According to the letter, the station, with no call letters mentioned, broadcasts on 662 kilocycles, 453.1 meters, with power of 1350 watts."

RADEX is in receipt of an interesting letter from Mr. Ross from which we quote:

"Several months ago there appeared in RADEX an article concerning the number of stations that I had logged and also a short description of the ground I used. I have received hundreds of letters from readers of RADEX asking many questions about the ground and aerial. I have experimented with ground and aerials for four years, not only in California, but throughout thirty-six states of the Union.

"Now, after my four years of work with grounds and aerials, I find that regardless of what make set is used, in order to obtain the best possible results, it is absolutely necessary to have a good ground and aerial. I have used various aerial systems both in the air and in the earth but so far have received my best results with an overhead aerial for distance although for reception within a radius of 2000 miles, the underground aerial is excellent.

(Continued on page 23)

RADIO IN PUZZLE FORM

TE received so many correct solutions for the April puzzles that we lost all count of them. And did our readers "rub it in?" "Duck soup," Joseph Stokes, 7318 Woodlawn Ave., Pittsburgh, Pa., calls them. "I solved them in about twenty minutes after a couple of preliminary glances," he says. And Marie Carson, 1622 Second St., Lewistown, Idaho, calls them "walkaways" but concedes that "even so, they are enjoyable." "Why not take any puzzle that comes along?" asks M. R. Witinok, R. F. D. 4, Rockville, Conn. "The harder you strive to get a tougher puzzle, the easier it is to solve." And "please make them harder," appeals Greer McCrory, 606 S. 2nd St. W., Cedar Rapids, Iowa.

All right, all right, Miss Marie Carson and Messrs. Stokes, Witinok and Mc-Crory. But where are your solutions for the May puzzles? At the time we are writing this, you are all among the missing. Is the shoe on the other foot?

So far we have received just enough correct solutions for the May problems to convince us they can be solved. But several hundred puzzlers must still be hunting for the correct answers. Well, here they are:

No. 1: W was K; T was F; F was I; Y was O; X was W; K was C; M was Y; B was M; O was B; C was X; I was E; E was T..

No. 2: The calls were CMKC-CKMC; WMC-CMW; KEX-XEK.

No. 3: The two sets of calls were KWKC-WSMK-KMOX and KWKC-WHOM-KOAC.

W

W

Puzzle No. 1

Fill in the missing letters for the eight calls in such a way that the name of a state will be spelled vertically in one column and the name of its principal city in another.

]		А	
r			
]			А
]	Т		
•			
]		S	
]			L
	0		

These Should Hold You

Some readers tried to work JOAK in on us in No. 3. Only North American calls are used in any of our puzzles unless foreign calls are specifically called for. All calls will be found in the three indexes of the previous issue of RADEX.

Puzzlers will have until August 20th to submit solutions for the problems in this issue hence we will try to supply enough to last for three months.

WUYM	UBYBGHMB
CKQB	UHMYBKQJB
CQGB	UBZHVYQM
CQBF	ZVHMZQM
CYUG	ZQJHGQ
KMVJ	JQMGQM
KMVF	ZOVOMZO

Puzzle No. 2: This is another problem in code. Here are calls for seven stations together with the cities in which they are located. Every letter given stands for some other letter. What are the seven cities and the seven stations?





Puzzle No. 3: This was submitted by T. J. Johnson, 523 W. Russell Ave., Seminole, Okla. He calls it "A Trip By Air From Brownsville to Detroit." It is composed of thirteen four-letter calls. The last two letters of one call are the first two letters of the next. What are the thirteen calls?

Puzzle No. 4: This was produced by Viggo K. Jensen, Geneva Country Club, Geneva, N. Y. It is based on the knight's move in chess. For the uninitiated, the knight may move one square horizontally or vertically and one diagonally. The

Milton Watson and Helen Gilligan. who have appeared in many musical comedy hits have been teamed together to revive bits from musical comedy productions of yesteryear in the new "Star Reveries" which had its premiere over the CBS network, Sunday, May 3rd. It will appear each week at 10:45 p.m. Sundays, EDST.





W	С	W	С	W
W	K	J	K	С
W	K	K	В	K
W	L	K	N	W
W	W	K	С	W

problem is to so place your knight that in making his jumps he will spell out the call letters for seven stations which Mr. Jensen describes as follows:

1-Last two letters stand for city.

- 2-1000-watt CBS in the South.
- 3-5000-watt University.
- 4-Four stations in same city on this wave.
- 5-5000-watt CBS.
- 6-In Missouri.
- 7-On 1210 keys.

In Mr. Jensen's solution the knight never rests on the same letter twice; that is any one letter may be used but once. He says, "This puzzle is easily solved if the system is discovered but I have used all the K's, W's and C's I possibly could so as to make it hard to find the starting point."

You will want one of the September issues of RADEX so get the answers to these four puzzles to us by August 20th sure.

Monthly FORUM of RADEX Readers

I N the monthly interchange of information and opinion which takes place among our readers there is much of interest to us all. Many are the valuable hints on betterment of reception that are passed back and forth. Here is a little one to give quick access to the vital part of RADEX:

"In using RADEX I clip the upper right-hand corner off of cover and pages up to and including page 36 and by using my thumb, I open up on Index by Frequencies. I consider this an additional aid," advises Louis J. McVey, R. 10, Box 144B, Sparrows Point, Md.

And here is one on an aerial device: "I have tuned in KFI, Los Angeles, Calif., 56 nights out of 74, only missing 18 nights and this station is 2000 miles away," says Herman Eichorn, 215 S. 4th, St., DeKalb, Ill., and adds, "I use a double coil induction aerial with about 300 feet of wire and use 14 separate grounds on which I have about 600 feet of wire. I can tune in stations all over the United States and Canada, except Pacific coast stations, and bring them in like the Chicago locals. I believe I have one of the finest aerial and ground systems. Most radio owners will not get results until they make a study of the aerial and ground system and this is more important than the radio."

A Coincidence

"The following is a coincidence for which Mr. O. R. Queen, of Phoenix. Ariz., may thank RADEX," remarks M. R. Ayers, 460 E. 40th St., N., Portland, Ore. "When I wrote station JOCK in Japan for verification on March 7th, Mr. Queen also wrote same station. I received my verification one day and on the following received the same verification addressed to Mr. O. R. Queen, but to my address. I, of course, had no way to tell in what part of the U.S. Mr. Queen lived, but as I sat reading the April issue of RADEX, whose name should I run across but Mr. Queen's, giving his experiences with the Japanese stations. I immediately enclosed his verification in a properly addressed

Helpful Hints and Caustic Criticism

envelope and sent it on to him. Some coincidence!"

"I wish to tell you," says Hodge Laughlin, 211 Walnut St., Barnesville, Ohio, "that on Saturday, April 4th, at 5:45 p.m. E.S.T., I received the unlicensed WGM in Jeannette, Pa., on 840 kcys. The signals were very plain. I hope this information will help to solve the problem concerning WGM and WOOP."

And J. C. Garber, 812 Ross Ave., Wilkinsburg, Pa., reports that WGM, Jeannette, Pa., is broadcasting regular programs daily on 840 kcys.

In this issue our readers will find an article on WGM and other unlicensed stations.

Answers to Inquiries

"As a 'radio nut' of the old school (when one had to bribe a dealer in order to purchase a tube which had just come on the market) I would like to answer the SOS of Donald Sleeper, of Worcester, who asks in the April RADEX for information on the neutralizing of a Bremer-Tully Counterphase Six," advises Earl C. Hitchcock, Hotel Plaza. Glens Falls, N. Y. "This is the orthodox method and one which I have always found to work: Place a piece of paper under one of the filament prongs of the first r. f. tube so that it is in operating position but not lighted. If a strong station has been tuned in and the volume control well advanced signals will still be heard with the tube unlighted. Turn the screw on the top of the micro-mike condenser until this signal disappears. Repeat this operation with the second and third tube and the job is done. If the set is built on the conventional lines of the counterphase the micro-mike will be found directly in front of the tube to be neutralized. On the old type sixes this condenser is black and rectangular and the adjusting screw is in the center.

On the new type or 'power six' the condenser is a glass cylinder with a screw extending through the top and which raises or lowers a brass cylinder inside the glass, varying the capacity. The so-called 'power six' has fixed resistance in the grid lead of each r. f. tube and with this set signals will be found remarkably constant over the entire broadcast band and if the three tubes have been neutralized as I have described, Mr. Sleeper should have no further trouble."

"I will inform Mr. Booneville," says Fred Rouse, 320 Delaware Ave., Albany, N. Y., "that I procured two Varituners, but cannot recommend them as they did not do what was advertised for them. But I have two friends who claim that they are great and would not be without them."

"I disagree with the person who stated that WJBT, Chicago, is on the air every day from 7 to 8 a.m.," comments Harry Durand, 216 No. Main St., Wheaton, Ill. "From what I have heard, WJBT has been completely deleted. It used to broadcast Evangelistic services conducted by Paul Rader, but due to lack of funds was discontinued."

"For the information of Mr. Harris Schiestel, station G5SW at Chelmsford, England, will verify reception upon receipt of correct log and one International reply coupon," writes James G. Miller, 313 Center Ave., Lake Bluff, Ill. "Letters requesting verification must be postmarked within 24 hours of reception of the program. Their address is British Broadcasting Corp., Savoy Hill, London, W. C. 2."

"In reply to question asked by one of your readers, Robert Buckley, of Kent, Ohio, I would like to say that the station is not CHIC, but CHRC, in Quebec City on 645 kcys. and using 100 watts power," advises R. E. Moran, 540 Parkdale Ave., Ottawa, Ont. "I have picked up a new station lately, VE9LP, using 1210 kcys. and situated at St. Huberts airport in Montreal. It is on the air most every afternoon and morning with reports on weather and visibility. I also heard a hockey game on Wednesday night."

"I notice in April RADEX that C. R. Simpson, Pomona, Calif., says he had received no verification from CJBC. As far as I know, he never will," remarks G. A. Gamble, 186 Langley Ave., Toronto, Ont., "as I attend Jarvis Street Baptist Church and although we hold a 'phantom' license we have never used the call letters. We have always used CKGW."

"Please tell Mr. Orval Wyse, of Archbold, Ohio, that on January 22nd, my brother and I both heard what we identified as CMVO, Havana, on 1010 kcys.,"reports Hodge Laughlin, 211 Walnut St., Barnesville, Ohio.

They Want to Know

"On March 31st at 5:05 a.m. E.S.T. I listened to a program on 760 kcys. The signals were very faint and while the announcements were in perfect English, it was plain that the announcer was a foreigner, because of a certain peculiar enunciation. A mixed chorus sang 'Onward, Christian Soldiers' and 'In the Cross of Christ I Glory.' Something was said about missionary work in the James or Jays Range. Can any reader identif??" asks Robert R. Rawstron, 15 Edgewood St., Claremont, N. H.

(Continued on page 25)



Catherine Field, staff artist of the CBS, all dressed up for the role of "Gretel." Miss Field appears on programs frequently.

Is RADIO COMMISSION Impotent?

Violators Defy Its Orders

THERE are at the present time at least three stations regularly broadcasting in defiance of the authority of the Federal Radio Commission which seems to be powerless to enforce its own rules. Certainly with the broad powers granted to the Commission by the Radio Act, it ought to be possible for that body instantly to stop any station broadcasting without a license. But WGM, at Jeannette, Pa., has been on the air for years and has never had even a construction permit from the Commission.

In a recent issue of RADEX we gave notice of a station giving the call of KMRS or KMRF, at Gretna, Nebr., which was on the air regularly on 1490 kcys. They announced themselves openly as owned and operated by the Sun Theatre of Gretna. A letter from the Commission brought the information that they knew nothing of such a station but "would look into it." It seems strange that with all the radio inspectors the Commission has, any station could do regular broadcasting without being noticed.

Now comes a third station with not only regular program but with the effrontery to put on special DX programs for listeners all over the United States, all without even the knowledge, let alone the sanction of the Federal Commission.

"About three weeks ago," writes Paul L. King, of Madison, Wisc., "I wrote you asking for the frequency and power of a station calling itself KTST or KTFT and giving its location as Seymour, Texas. I had picked it up on about 1210 kcys, in the early morning hours when it was testing. You informed me that you knew of no new station in Texas and suggested that I had probably heard KTAT in Fort Worth.

"It happens that after I had picked it up for the first time, I told a friend in Brooklyn of my catch. He is a member of the Newark News Radio Club and so he informed their program director. As a result, last Sunday a.m., I again picked up KTST (or KTFT) broadcasting a special DX program for the above club in which they stated again that they were a new station on the air and requested letters or telegrams."

Now comes a letter from the Radio Commission which says: "There is no station licensed to operate at Seymour, Texas, and this matter will be investigated." It would seem that someone is sound asleep or else that the Commission lacks either the authority or the backbone to proceed instantly and vigorously against outlaw stations. Surely it must realize that with every violation of its rules it is weakening its own power and standing.

RADEX wants to support the Commission in every possible way because it realizes that nothing could be more disastrous than a breaking down of the Commission's authority. For this reason we have removed from our index any station known to be operating without a license. But our readers are entitled to be able to identify stations they hear regularly and we will either have to include these stations again in our listings or publish an additional index solely for the use of outlaw stations.

No station can operate for even a single night without the knowledge of RADEX readers and within a few days RADEX knows of any new station appearing on the air. This information is available to the Commission and we and our readers will gladly cooperate in reporting these unlicensed stations. But if, as in the case of WGM, such stations are still operating one and two years after we report them, such cooperation is so futile as to be a waste of time.

There are other violaters of Commission rules besides broadcasters. Some time ago we published a letter from W. W. Winthrop, Jackson, Mich., regarding a station that was blanketing his dials. Mr. Winthrop now writes us: "Since writing you about the mysterious station I heard, I have discovered what it is. It is a testing transmitter used by a radio factory about six miles from me. Recently its power has been increased and, as I write, it is blanketing the entire section of my dial from WHAS to WJR and interfering with reception generally. I understand these people had trouble with the Radio Commission about two years ago, but apparently they are coming back now to their old tricks. Certainly they should be barred from the air with their repeating phonograph and their playing of one piece over and over all day long."

John L. Vincent, 948 Russell Street, Jackson, Mich., also writes: "I have listened to this station from 9 a.m. to 5 p.m. and then it just leaves the air without announcement. It comes on 800 kcys, where WBAP and WFAA should come in. I get them every day for about a month but they never announce."

Aside from the Commission permitting such rank violation of its rules, it seems strange that a responsible radio manufacturer would clutter the air and destroy the pleasure of the potential users of his own sets. Certainly such action would not lead us to buy one of their receivers.



The villainous "Yu'an Hee See" of the Collier's Radio Hour broadcast each Sunday at 8:15 p.m. EDST. over NBC-WJZ chain.

Protests From Mexico

RECENT articles in this magazine about the chaotic conditions in Mexico and Cuba have made some of our friends in those countries wrathy. While we think RADEX has been entirely fair in its criticisms even recommending an international agreement which would necessarily concede badly needed channels to the exclusive use of our southern neighbors, yet we feel that in fairness broadcasters in Mexico should be given the opportunity to present their side of the case.

From Difusora Portena, Radio Station XES, Tampico, Mexico, come the following letter:

"We have read with interest the article on P. 12 and 13 of the April number, with regard to the Mexican situation.

"We cannot be blamed for Americans in the U. S. who want to broadcast, coming down here and getting on the air, but we doubt that their efforts will meet with success, and sincerely believe that your readers needn't be worried.

"Tell the young fellow who wrote the third paragraph of the article to keep his pants on. He mentions interference by Mexican stations on the wave lengths being used by U. S. and Canadian stations. What does he say about the interference in the U. S. itself?

"I maintain that these stations in Mexico have just as much right to be on the air and to furnish programs that can be heard all over Mexico, as stations in the U. S. and Canada have to furnish music and entertainment to their peoples. Where do you people get that stuff of implying that God made the air only for the Americans and Canadians? You ought to get a baby rattle for the fellow who made that break.

"It seems that the cause for the interference lies in the fact that six or eight cleared channels were left for Canadian stations at the last Conference, and Mexico was not even asked to send a representative! Mexican stations cannot be blamed for the interference, surely.

"As to the wave lengths used by stations down here, the situation is improving constantly. Where we find that a station is interfering with a U. S. station, a new frequency is sought immediately. This policy means many times quite large expenditures for the station owners, and to date only a few of our stations are commercially successful, so we see that in order to not interfere with the U. S. stations, it is just a matter of money out of pocket for the station owner. It seems that this attitude should be sincerely appreciated by U. S. station owners, and by listeners also. Instead of being criticized.

"With the further idea of improving the situation, the Mexican Government is doing its part. Stations are now required to go under crystal control. Several already have, and by fall every one will be on a standard, dependable frequency. This expense is also being borne by the station owners, and no help is asked from anybody.

"If you will publish this letter among your others that come from readers, perhaps it will help to explain the situation.

XES's time on the air is as follows:

Week days: 9:00-10:30 a.m. 12:30:1:30 p.m. 7-11 p.m.

Sundays: 12:00-2:00 p.m.

"Your publication is very helpful and interesting, and finds a large acceptance among radio fans in Mexico."

And from the Radio Engineering Laboratory of Fort Worth, Texas, who write that they constructed stations XES and XED as well as WBBM, WBAP, WREC and KFJZ, comes this letter:

"We have been buying your Radio Index regularly ever since you have been publishing it. We buy this book because it is accurate or as near as possible in its listing of stations, but in looking through the last issue we have taken an exception to one of your articles, and that is the one concerning the Mexican stations.

"Station XED, located at Reynosa, happens to be one of the stations that we have constructed. We are not amateurs in the game of radio, since we now have under construction our ninth complete transmitter. You have XED listed at 970 kilocycles, which is incorrect. This station is operating on 960 kilocycles and its variation is not more than 500 cycles, they are making preparations to change their frequency from 960 to 965 kilocycles.

"Of all of the unfair things that have ever been forced on to neighbors, Mexico has been the goat. Mexico is just as close to the United States as Canada is, an imaginary line separates the two countries in both cases; there is not a single clear channel set aside for Mexico, not one. The United States, of which I am a citizen, has hogged the air and leaves only a very few for Canada, but no consideration has been given Mexico.

"We believe in being fair, and we are fair to all those we deal with. Mexico should be given a half dozen clear channels, at least, if it is allowed. Radio will be the means of preventing misunderstandings, and eventually wars. since if one listens nightly to one's neighbor's music, and listen to lectures in which they express their desire to be friendly to their Northern neighbors, it will be mighty hard to go and take your gun, and start shooting. They have no desire to create trouble, they are peaceloving people, they have had enough wars among themselves, and they are tired; their Government is now well established, they are buying our products, and they are offering nothing in competition to what we have that can hurt our business. Good, clean competition is the life of any business.

"Instead of writing a story in your Radio Index about the Mexican radio situation growing worse, and how their stations are all hay-wire, and that you find them on a different frequency every other night, why not investigate and find out what the real conditions are, and then "intelligently" write a story on the Mexican situation?

"P.S. It might be of interest to you to know that we have the contract for the construction of a 50,000-watt station for Dr. J. R. Brinkley, of Milford, Kans., which will be located immediately across the border, and will be operated in competition, in other words, in the same channel with a powerful American station."

It seems to us that this postscript destroys the whole argument of our correspondent. He seeks to prove in his (Continued on prove 2π)

HELPING Readers HELP Themselves

I have a Sparton No. 931 and find the reception good with only a few exceptions. When W KRC, a local station is on the air. the other announcers "gargle," that is those below 600 kilocycles. After they sign off reproduction becomes clear. Reproduction is always good above 1400 kilocycles. My antenna is approximately 35 feet long about 5 feet above a tin roof and the lead-in is about 25 feet long. What is your opinion of this arrangement I have logged about 225 stations this past winter. Am also having trouble with stations spreading over too much of the dial. I have paid well for service men to remedy this condition but so far to no effect. WLW, a local, spreads over about 70 kilocycles, and WENR. Chicago, over about 50. The community in which I live is residential. A street railway runs past about 500 feet; there are no hightension power lines but only ordinary service lines in front of the house. The stations that I can log during the day are very few and the noise that accompanies reception is almost unbearable. At night, with all kinds of electrical appliances and signs in operation, the noise seems to abate. I cannot help but feel that the antenna is too short and the metal roof affects reception.

For the results that you have been getting it seems that your antenna is sufficiently long. There is, however, a condenser action between the antenna and the metal roof which makes the antenna act as it would if erected only five feet above the ground, that is if the metal roof is grounded, which it undoubtedly is through the gutters and conductor pipe. It might be a good idea in your case to erect another aerial on the side of or behind the house, as high as possible from the ground. In our May, 1930, issue, No. 39, we published an article on Balancing Tuned Radio Frequency Receivers and in this article you will find complete instructions how to adjust the trimmer condensers, which may be necessary in your particular case. Another suggestion is to have an extra antenna about 10 or 15 feet long, which should help to sharpen the set on locals,

Technical Editor Lends a Hand

and if this does not help a wave trap may be the remedy.

Noisy Ground

On my nine-tube superheterodyne, a Radiola No. 80, I am using a pipe driven into the earth about three feet as a ground. When I turn the set on there is a rumbling noise and by disconnecting the ground the noise disappears entirely. Could you tell me how I may eliminate this noise and what would you advise me as to the best type of ground that I could use?

In your case the interference originates from an outside source, as it can be eliminated by disconnecting the ground. If the noise continues, its source would be in the set itself. It is, of course, possible that there is a loose connection in the aerial and ground system which accounts for this trouble, but most likely the cause lies in some electricallyoperated device in the neighborhood, especially if the noise has a certain regularity. If you cannot determine just where the trouble arises after carefully checking over the condition of the aerial and ground, install an underground an-



Here is the miniature railroad you hear on the "Empire Builders" program. Said to be the most costly piece of sound equipment used.

tenna, which, according to claims made, will greatly reduce or entirely eliminate the interference. It seems that for the average condition of soil, your ground is as good as any. But in case the soil is exceptionally dry, bury a copper plate, to which the ground lead is soldered, in a hole about three feet deep, depositing a quantity of rock salt both below and above the plate. The salt attracts moisture and provides a moist ground, which enables you to get the best results in reception.

Oscillator Broad

I have learned how to neutralize my set from your March issue, with good results. I made an oscillator but can hear the noise all over the dials. The coil is three inches in diameter and has 60 turns of No. 26 wire wound over it. The condenser has 12 plates and is marked 500 mmfd. Can you kindly tell me how to eliminate the oscillator from buzzing all over the dial My set is a Green Diamond.

The reason you hear your buzzer all over the dial is because it is located too close to the receiver. The further it is placed away from the receiver, within reasonable limits, of course, the sharper the signals will be. This is just like a broadcasting station in the immediate vicinity, which spreads over the dial, but the same station located 50 or 100 miles way will not usually cause such trouble. The oscillator, which has very little power compared to that of a broadcasting station, would not have to be separated so far. If you can put this in your attic or even in the garage a hundred feet distant, better results will be obtained.

This Set Howls

When we turn up the volume of our set it invariably starts to howl which becomes bouder and louder and does not cease until the set is turned off and started over again with the volume control turned down. Will you kindly tell what the trouble is and how it can be remedied?

You are undoubtedly annoyed by a microphonic tube, which can usually be traced to mechanical vibration transmitted to it, most likely the detector. There are several methods of eliminating such trouble. Sometimes an effective remedy is to set the entire radio set on sponge-rubber feet. Changing the tubes for others of the same type until the defective one has been found has also been found helpful. Of course, it is best to cut off the source of trouble, but this cannot always be done. It has sometimes been found that a loudspeaker incorporated with the set will cause the vibration and in this case the remedy is to mount the speaker in a semi-rigid manner to absorb the vibration. This can be done by suspending it by means of rubber strips. If you are in doubt as to which tube in your set is microphonic. put the set in operation and grasp each tube firmly, holding it for just a moment: if the howl ceases while you are holding one of the tubes, the offending one has been located. Dry-cell operated receivers are especially apt to be microphonic.

No Signal Strength

Our superheterodyne, which uses a loop, seems to have very little pick-up energy. The tubes all light up although they are about a year old. It is time to renew them and what other method can be employed to give the set more energy as we were not satisfied in this respect from the time we first got the set?

The condition of the tubes in your receiver depends entirely on the length of time that they have been in actual operation, although it is also possible that one or more of them could have become defective before its rated length of service expired. Take the tubes to a radio shop and have them tested. A competent and reliable dealer will tell you how many should be renewed if any of them do not show a normal reading under test. Many users of loop-operated receivers take the aerial lead-in and wrap it around the loop a few times in the same direction that the loop wire is wound, and then connect the open end of the lead-in to the ground. In this way there is a energy transfer from the leadin to the loop by means of induction which greatly increases the range of a receiver but sometimes spoils its selectivity.

Speaker Rattles

I have an excellent cone speaker which has always given satisfactory results, but recently a serious rattle takes place during reception that is aggravated by turning up the volume control. Will you kindly inform me as to the cause and cure of this condition?

Cone speakers occasionally develop the trouble you are experiencing in yours. Usually the source of the trouble lies in changes in humidity, which cause the cone to contract or expand and thus produce a pull or a pressure on the drive pin. This condition can easily be remedied by merely loosening the setscrew that holds the apex of the cone on the drive pin and then tightening it again, which allows the cone to assume its normal position and relieves the drive pin from strain. Loose connections of the drive nin may also be responsible or foreign particles may have gotten between the cone and the frame to which it is attached.

Transformer Terminals

After removing the audio-frequency transformers from my receiver in an effort to substitute others which I think are of better quality, I find that the new transformers are not marked. Knowing that a wrong hookup is apt to cause very poor reception, I am writing to find out by what means the right terminals can be located.

Practically the only method of determining the correct ends of the transformers is to remove the shell and examine the winding. Of the four ends of the winding, the two that are the furthest away from the core belong to the secondary winding and the other two belong to the primary. The outermost tap should be connected to the grid of the tube following the transformer. while the second outside lead is connected to the biasing resistor, or in case your set is battery-operated, to the A-negative line. The closest tap to the core is connected to the B-positive line and the remaining one to the plate of the tube preceding the transformer. Mark the leads carefully, then replace the shell, marking the terminals to correspond with the leads attached to them, taking care not to ground any of them on the shell as this would make the transformer inoperative in most cases. The rest of the wiring is a simple matter and you should be sure to solder the leads well.

Noise From Wind

During windy weather, even when there is no storm that might be the cause of static crashes, our receiver splutters quite frequently. Out set is an all-electric one and has given entire satisfaction this winter until the recent trouble commenced. We use an outside antenna and both antenna and ground connections are in good order. Can you indicate where the trouble lies

The fact that the trouble only occurs during windy weather seems to show quite plainly that some grounded object



Sherlock Holmes, himself, in the person of Richard Gordon. Every Monday at 10:00 p.m. over NBC-WEAF network.

is coming in contact with the aerial at intermittent intervals. This is probably a tree branch which normally clears the aerial but brushes against it when moved by the wind. Another cause might be that the aerial or the lead-in wire sways against the edge of a building, while a third cause might be a loose connection between the lead-in and the aerial. Be sure that this made mechanically secure by soldering.

A. C. Sets on D. C.

Recently we have moved to a small town where direct current is employed. Not (Continued on page 24)

Radio Frequencies OVER Ocean Waves

MANY of us have a good time playing golf even if we do have a hard time breaking a hundred, but nevertheless we like to read about the matches between the fellows who go around in the seventies. So it is in radio. Only a few of us can brag about our foreign reception but just the same we like to read about the fellows who can.

"Have a heart and devote less space to trans-Pacific stations next month. To me it seems just like holding a piece of candy in front of a person having their hands tied. I wonder if anybody in this locality has ever heard Australia." Paul J. Keck, 1013 Maple St., Allentown, Pa., thus objects to so much and at the same time asks for more. So here we are off on another jaunt with our over-the-ocean flyers.

"I now have a model 93 Majestic a year old," says M. R. Ayers, 460 E. 40th St., N., Portland, Ore., "on which I have received 172 stations. These were all logged in the evening between the hours of 9 to 12 p.m. P.S.T., excepting for two mornings that I stayed up for the Japanese stations, of which I have verifications from six: JOAK, JOIK, JOCK, JOBK, JOFK and JOHK. Several of our readers have asked how to receive verifications from foreign stations where no English announcements are made. If you do not understand the language spoken, take the program down by sequence. For instance, on the Japanese stations the following is an example: '3:28 a.m., vocal selection, male voice; 3.34 a.m., announcement or speech; 3:45 a.m., instrumental selection, etc.' These stations keep a log and verification is made possible in this way. However, the Japanese and Mexican stations do announce occasionally in English,"

"Anyone knows that the distance from the Pacific coast to Japan is a good 1000 miles farther than England is from the Atlantic coast, yet I never see any letters from one receiving at least one station in Europe, while on the Pacific coast they receive five or six in Asia. It looks to me as though the reception

Tuning in the Trans-Pacific

on the west coast is much greater than on the Atlantic. Perhaps some one can enlighten me on this subject." Douglas Robinson, 63 Hollywood Ave., Albany, N. Y.

"By the way, Japs do not come from the west, nor does Europe come in from the east," advises Don R. Catlin, Woodbridge, Calif. "Radio waves travel the shortest distance, and from Woodbridge, at any rate (60 miles from San Francisco) Japs and Europe come over the North Pole. Paris is only 5,000 miles distant, airline, via North Pole and way stations."

"After my letter to you appeared in RADEX I have received numerous requests which boil down to this: 'If you don't speak foreign languages, how do you get verifications?' Here's a simple solution: Note your standard time to the second, if possible. Jot down everything you hear. For instance, '9:32½ P.S.T., woman's voice, singing, accompanied by piano, flute, stringed instrument, or what have you; 9:36, man, high (or low) pitched voice, song, with orchestra, etc.' The Jap stations particularly are extremely courteous," reports Don R. Catlin, Woodbridge, Calif.

"Regarding the Japs," says Charles Royal, R. 1, Box 438, Seattle, Wash., "they do broadcast their call letters in English. The best time to hear the call letters is at 1:00 a.m. P.S.T."

"Thought this information might be of use to RADEX readers," suggests Joe Stokes, 7318 Woodlawn Ave., Swissvale, Pa. "New Japs—JOKK, Okayama, 500 watts, 700 kcys.; JOLK, Fukuoha, 500 watts, 680 kcys.; JOPK, Shizuoka, 500 watts, 680 kcys.; JOPK, Shizuoka, 500 watts, 680 kcys.; JONK, Nagano,500, watts, 635 kcys.; JOOK, Kioto, 300 watts, 625 kcys. JODK, Keijo (Seoul), is now on 690 kcys.; HIX, Santo Domingo, on 630 or 635 kcys.; TIC, San Jose, now on 882 kcys.; HJN, Bogota, S. A., now on 960 kcys.; 8RA, new station in St. Johns, Newfoundland, on 550 kcvs., 25 watts."

"In your March number I read about some of your readers asking about the Japanese stations and the time they are on the air," comments P. Hough, 3425 Manor Road, New Westminster, B. C. "I have received seven of the big stations in Japan and so far have four verifications, the other three have not come in yet. I have tuned them in dozens of times and they do broadcast a chain program at times. English speaking over Japanese stations is at 6:30 p.m. to 7:00 P.M. J.S.T., that is around 1:30 a.m. to 2:00 a.m. P.S.T."

Gets the Announcements

"I have heard six of the big seven Japanese stations announce the call letters of their stations, all between 5:30 and 6:00 a.m. M.S.T. JOHK, JOFK, JOCK and JOBK announced at 5:50 a.m. JOIK and JOAK announced at 5:55 a.m. I have heard JOIK announce several times at exactly 5:55, so they must have a regular time to announce. They all evidently signed off at those times too as I could hear them no more. They announced the call letters only in English. I have heard 2YA, Wellington, New Zealand, sign off several times between 4:00 and 4:15 a.m. They always play 'God Save the King' just before leaving the air." O. R. Queen, 1534 W. Taylor St., Phoenix, Ariz.

"Have heard Japanese stations on 810, 830, 770, 850, 790 and 750 kcys. I have heard as high as five at the same time between 3 a.m. and 5 a.m. M.S.T., which sounded as if they were broadcasting a chain program. I have listened patiently to these stations for hours, without hearing one single word of English. The program consisted of long speeches and monotonous music and singing which sounded something like the Crow Indians giving a big powwow," complains Orin M. Stuart, Laurel, Mont.

"I have a verification from JOAK in front of me dated "Tokyo, March 10, 1931,' and they are apparently broadcasting on 590 kcys., with 10 kilowatts power," advises Stanley Savage, Route 4, Spokane, Wash. "Besides the big 7 in

Japan I also have received an Oriental station on 710 kcys. I sure wish someone could tell who they are. Possibly COMK, Nukden, China? But has anyone ever received a verification from COMK, or has anyone ever heard an announcement they could understand?"

"Now some data on the Japanese stations," informs Leon V. Garland, Box 93, El Segundo, Calif. "The Japanese do announce in English, but not more than twice in a program. The programs are all in Japanese and usually are in this order—first a complete lineup of the program (there is no advertising), then news items, which are followed by a program for the children, then comes music and plays and talks, and last time signal and weather reports."

"On March 31st I tuned in JOIK, Japan," says Miss Marie Carson, 1622 2nd St., Lewiston, Idaho. They gave the call letters in English at 5 a.m. P.S.T. I live 400 miles from the Pacific Ocean. I have no special apparatus. The radio is a Temple non-screengrid Neutrodyne Plus (9 tubes). It may be others are making the same mistake I did, mistaking the Japanese station for a Mexican. The speech did sound a great deal like Spanish, but not quite so quickly spoken."

High Power in Manila

"From a Japanese correspondent, I have learned that KZRM, Manila, P. I., is now on the air with 50,000 watts at 485 meters, and JOAK is now also broadcasting on 508 meters, with 10,000 watts," writes Raymond Corbett, 619 12th St., Sacramento, Calif., and asks, "Could you give me any information about an Oriental station broadcasting on 660 kcys.? I held them between 4 and 5 a.m. P.S.T."

"I picked up 2YA at 4:05 to 4:15 a.m. E.S.T., and at 4:32 I heard JOFK, Japan. It was stormy out, with torrents of rain, yet there was no static, which is very rare so late in the year," states Roy Cattle, R.F.D. No. 2, Paterson, N. J. "Has it been done so late in this part of the country before?"

"I notice that most of the distance reception is done on the Pacific Coast," comments Samuel F. Owens, 233 Rob-(Continued on page 19)

TUNING Time for DX PROGRAMS

When Chances Are Best

H ELPFUL hints on the best time to tune for certain stations, continue to come from our readers. These are proving most popular and each month, a list of DX targets will be found in these columns.

"I am in receipt of a letter from 10AY, Kelowna, B. C., in which they request you to print their schedule, which at present is: Every Thursday at 8:30 p.m. and every other Sunday at 12:30 a.m. P.S.T.," writes Robert R. Rawstron, 15 Edgewood St., Claremont, N. H. "In verifying my report 10AY says that my report is the most remote one yet verified. They use 50 watts on 250 meteres. CHGS, also wishes you to print that following the May 3rd and June 7th 1-2 a.m. E.S.T. DX tests, the DX programs will be discontinued till October 6th."

"For DXers I have a suggestion," advises Herbert C. Bent, 19 Westminster Apts., Halifax, N. S. "Station VCX at the Halifax Lightship, just off Halifax Harbor, broadcast daily on, 690 kcys. (or thereabouts) at 8 a.m. and 1:30 p.m. A.S.T. They only broadcast weather reports, aids to navigation, etc., for the benefit, largely, of fishermen. To those who hear the program, they will at least find something different in announcers and a new station."

"I have had many requests for schedule of WBIS," informs Robert R. Rawstron, 15 Edgewood St., Claremont, N. H. "I have answered all requests and I feel that many more will want the schedule. Here it is: WNAC, 6:30-7:45 a.m.; WBIS, 7:45-9:00 a.m.; WNAC, 9:00 a.m.-1:00 p.m.; WBIS, 1:00 p.m.-2:00 p.m.; WNAC, 2:00 p.m.-12 m."

"Tell your eastern readers," suggests Thomas C. Rogers, 2515 Jefferson St., Altoona, Pa. "to try for KHG on 590 kcys., some Monday morning about 1:30 or 2. They sure come in strong with very little volume."

"A verification from HJN, Bogota,

Colombia, S. A., states them to be on the air every evening, except Sundays and holidays, from 8 to 11 p.m., local time," writes C. R. Caraven, 1840 Georgia St. E., Vancouver, B. C.

"I have just received a verification from station KFVD, Culver City, Calif., and on the card they say they are on the air daily from 6:00 a.m. to Sunset, and 10 p.m. to 1 a.m. P.S.T." advises Miss Laura Harris, 1301 Bloor St., W., Toronto, Ont., "It's a 250-watt station and they are on 1000 kcys."

"I think that DX fans would be interested to know that regular programs are now broadcast from HJV, the Vatican station inaugurated about two months ago by Pope Pius in Italy," says Miss Laura Harris, 1301 Bloor St. W., Toronto. Ont. "Transmission is made daily, except Sundays and holidays. There are two periods a day, one in the morning, local time, and another in the afternoon. The following is the schedule in Eastern Standard Time: 5-5:30 a.m.; 2:30-3 p.m. The transmission at the earlier period will be on 19.84 meters and that during the later period on 50.26 meters."

"Just received a verification from KVOA, Tucson, Ariz., on 1260 kcys. They broadcast a DX program every second Sunday from 1 to 3 E.S.T. They will be very glad to hear from DXers and give a nice verification," reports Francis M. Martin, 1101 Adrian Ave., Jackson, Mich.

"Has anyone logged station WIBG, Elkins Park, Pa.?" asks Chas. Fowlie, 101 17th St., West New York, N. J., and adds, "Station KFVS, Cape Girardeau, Mo., broadcasts a program every Saturday night until last Sunday morning. Station WAWZ, supposed to be located in New York City, has not been broadcasting since you allocated it at 1350 keys."

"KPSN, Pasadena, Calif., will not be on the air after Thursday, April 30th," reports Gilbert Van Vranken, Jr., 2230 N. El Molino St., Pasadena, Calif. "KGER, which has been sharing time with KPSN, will be on the air full time after April 30th."

"I would be very thankful to you if you would care publishing in your wellknown RADEX radio log that this station, CMBC, Cuba, which actually broadcasts with a frequency of 965 kcys., will broadcast every Sunday morning, beginning at 4 o'clock E.S.T., DX programs," writes D. Fernandez, Owner.

"Anybody trying to get NAL, such as M. Tuchinsky, tell them to try at 8:45 a.m. C.S.T., which is 20:45 G.C.T. (Greenwich Central Time)." Ivan D. Ide, Box 312, Genoa, Ill.

"CFCH, North Bay, is on the air every day from noon till 12 p.m. E.S.T. on 1200 kcys.," advises Lorne Chafsut, Kapuskasing, Ont.

THE following information regarding time on the air has been secured from the stations concerned, from newspaper clippings, and from our readers. The times shown can be quickly converted into your own time by use of the following table:

• • • • • •		0			
Your		Whre Time			
Zone	EST	CST	MST	F	ST
EST CST MST PST	Subt. 1 hr. Subt. 2 hrs. Subt. 3 hrs. Subt. 3 hrs. ee fo ndays, 12 n7 eekdays, 7 a.r Li	Add 1 hr. Subt. 1 hr. Subt. 2 hrs.	Add 1 h	r. Add Add	3 hrs. 2 hrs. 1 hr.
Stat	e	City	Call	Freq.	Watts
Arkans	as Fo	rt Smith	KFPW	1340	50
Su Wa	ndays, 12 n eekdays, 7 a.r	n7 p.m.			
	nday, 11 a.m.				
Colorad	eekdays, 9:30	a.m11 a.m.; and Junction			10 p.m. 100
	ndays, 10-12			1010	100
We	eekdays. 8 a.n	n2 p.m., 5-1	0 p.m.		
Sa	turdays, 8 a.n	n2 p.m., 5-7 inidad	p.m., 10 p	0.ml a.i	m. 100
Su	ndays, 10 a.n	n - 10:30 a.m.	. 3:30 p.m	1420 15 p.m.	
	8:30 p.m., MS	ST.		-	,
W	eekdays, 7 a.n	a3 p.m., 5:3	0 p.m9 p	.m.	100
Georgia	ndays, 9:45 a.	me m-12 p 6-1	0 nm CS	1370 T	100
We	eekdays, 9 a.n	n10:30 a.m.	, 11:45-1 p	.m., 6-10	p.m.
Iowa			KGCA	1270	50
	ndays, 10:45 a cekdays, 9-9:4				
Louisia		w Orleans		1200	100
Su	ndays, 8-10 a.	m., 1-5 p.m.,		, CST.	
	eekdays, 8-12		WJDX	1270	1000
Mississ	ndavs, 12:15-1			1270	1000
Mon.	-Tues., 7-15 a	.m2:30 p.m	., 5:30-10:	15 p.m.	
We	edThuFri.,	7:15 a.m3:	30 p.m., 5	5:45-10:1	5 p.m.
		cksburg	m. WQBC	1360	300
Da Missou	ily, 8 a.m6 j ri Gr	ant City	KGIZ	1500	100
Da	ily, 6 a.m12	m., CST.	wawa		1
Montar	na Mi ily, 10 a.m6		KGVO	1420	100
Da	шу, то а.шо	р.ш., мот.			

New York	New York	WCDA	1350	250
SatSun., 9-	12 a.m., 9-12 p.n	n., DST.		
Monday, 3-6				
Tuesday, 6-9				
Wednesday,				
Thursday, 5:				
Friday, 12-4:	30 p.m.			
North Dakota	Devils Lake	KDLR	1210	100
	a.m1 p.m., 3-8			
Weekdays, 7	a.m2 p.m., 6-1	0 p.m.		
Oklahoma	Oklahoma City	KFXR	1310	100
Daily, 7 a.m.	-10 p.m., CST.			
	Shawnee	KGFF	1420	100
Sundays, 1-9	:30 p.m., CST.			
Weekdays, 7	:30 a.m9:30 p.r	n.		
Pennsylvania	Philadelphia	WELK	1370	100
Daily, ex. Th	iu., 9:30 a.m10	:30 p.m., D	ST.	
Thursdays, 9	:30 a.m12 m.			
Rhode Island	Newport	WMBA	1500	100
Sundays, 1-7	:30 p.m., DST.			
Weekdays, 1	2-1 p.m., 4-5 p.n	n., 6-10 p.m	ι.	
Saturdays, 1	2-2 p.m.			
Tennessee	Bristol	WOPI		100
Daily, ex. Sa	t., 10-30 a.m2	p.m., 5-8:45	6 p.m., ES	т.
Saturdays, 10	0:30 a.m2 p.m.	, 5 -11:30 p.	m.	
	Memphis	WHBQ	1370	100
C J	05.0	-		

Weekdays, 9-11 a.m., 12-1 p.m., 4-5 p.m., 7-9:30 p.m. Texas Dallas WRR 1280 500 Sundays, 8 a.m.-11 p.m., CST.

Weekdays, 9:30 a.m.-1 p.m., 5-11 p.m.

Over Ocean Waves

(Continued from page 17)

erts Ave., Glenside, Pa. "How about giving some of the Easteners a break? I'm giving you what I believe to be an authentic report on when some of the more powerful European stations are on the air-not that I've had any of them, but here they are: LKO from 5:00 a.m. to 5:00 p.m.; ITO from 3:15 a.m. to 6:00 p.m.; IRO from 3:15 a.m. to 6:00 p.m.; IMI from 3:15 a.m. to 6:00 p.m.; PFBI from 2:00 a.m. to 6:00 p.m.; 5GB from 5:15 a.m. to 7:00 p.m.; 2LO from 7:00 a.m. to 7:00 p.m., all E.S.T. Remember, I'm not guaranteeing the authenticity of this report, but I believe it to be correct."

"Why not list a few of the high-powered Australian and Japanese stations in the regular Index by Frequencies of RADEX?" suggests George Lilley, 227 W. Bernard St., West Chester, Pa.

Sorry, but the Index by Frequencies contains too many stations now. We fear it would complicate things were we to attempt to list stations outside of North America therein. Perhaps some day when more of us can turn our dial to-Tokio, we will find it advisable to incorporate Japan and Australia, but not yet.

LETTERS from Our MAIL BOX

W E are publishing below excerpts from letters from two radio stations to our DXers. From John M. Hilgers, President, WISJ DX Radio Club, Madison, Wis., comes the following with the statement that thirty verifications and 25 cents entitles anyone to membership in the club:

"Radio Station WISJ wishes to make a correction in the rating given it by figures in your Index By Frequencies and Dial Numbers columns. The figure, denoting "uninterested," is anything but expressive of the policies of the station management.

"It was not until January 1st that WISJ really systemized itself for its work. Since then the greatest attention has been given incoming DX mail. Now we have organized a DX club which, judging from the responses, will soon be among the greatest. We have been fairly swamped with mail, and for that reason our verifications are not mailed very promptly.

"I should appreciate it very much if you would certify us in said columns as 'DX enthusiasts' and as a regular station issuing stamps and verifications under the usual conditions. Also, would you publish this missive in your 'Letters From Readers' for we do come under that classification. There are many DXers who picked up the station last year who, I believe may not have received verifications. If published, this letter will assure them of our cooperation."

From Radio Station XES, the following change in policy:

"The expense attached to attending to listener-mail from the U. S. and Canada has for months been too much of an item, and we must place some sort of a restriction, in order to not be obliged to verify so many reports.

"We are only too glad to have reports from our listeners, and were it not for the expense, would like to answer each report personally. We acknowledge receipt of every report during the Victor Hour, Mondays, 10-11 C.S.T.

From Stations and Fans

"However, we cannot handle so many verifications, for our folder costs us, with mailing expense, etc., about 15 cents. For the future we will verify all reports carrying 25 cents, and will send a printed reply card to all carrying 10 cents. We would appreciate it very much if you could find a place to publish the above."

"Do you know that KMA, Shenandoah, Iowa, which is listed in all the logs I have seen as being allocated to 930 kcys., is broadcasting on 710 kcys.?" asks G. J. Smith, 2120¹/₂ West Broadway, Enid, Okla. "I heard them there for the first time this morning and got all worked up thinking I had WOR, Newark, daytime reception, until I heard the station announcement."

Station KMA, Shenandoah, Iowa, advises as follows: "We have your letter relative to the correct listing of our station. We wish to advise you that for the past two or three weeks we have been operating on a frequency of 710 kcys. by authority of the Federal Radio Commission. However, due to the fact that the Commission gave us this wave without a hearing, and a protest was entered by WGN, Chicago, and due to that fact, we are going to Washington to have the hearing which will be held sometime about the middle of this month. Starting today, May 1st, we are on our old frequency of 930 kcys. and will remain on that frequency until after the hearing in Washington, which will determine just where we will be on the dial permanently. So for the present, at least, you may consider listing us as 930 kcys., as that is correct."

"I have just completed a most successful DX season and have a few real nice verifications, the best of which are from nine stations over 10,000 miles," writes Edmund Walbrecht, Box 124, Dover, N. J. "Verifications in this class are from 2BL, 2FC, 2GB, all of Sydney, Australia; 2YA, 1YA and 3YA, all of New Zealand, and two of them being 500watters; 3LO and 3AR, both of Melvourne, Australia, and 4QG, Brisbane. All of these are 100% specific and genuine and are open to any doubter's inspection. Most of these Aussies were received last October, which was by far the best month of the year for transpacific reception in this locality. But still I have no Europeans or Japs. I can't understand this, as Australia is a good deal farther away and the stations are lower-powered. Australian reception has been quite reliable this winter, and few weeks passed that I didn't at least hear 2BL. My total log is now 636, with about 300 verified. 69 of these verifications are from over 2000 miles, and include quite a few 50 and 100-watters on the Pacific Coast. I have every state in the Union and every province of Canada verified. Also have LR3 and LR4 of Argentina, but neither have verified yet, and KGMB, of Honolulu, who just sent me a very nice verification. Had him so loud on the morning of March 29th that he almost shook the windows. All of this has been done on a battery-operated Radiola No. 20, in one of the best locations existing for DX. I am situated on the top of Mine Hill, near Iron mines, and use a very long antenna, 325 feet, to be exact, and is 50 feet high on the average. I use a water pipe ground, which is best, in my opinion."

Heard First Broadcast

"My experience dates back to when Dr. Le DeForest was experimenting with the Radiophone from High Bridge, N. J., long before radio broadcasting was heard of, and I was listening on my wireless set one evening and heard "The Star Spangled Banner' coming over the air. I called in my nearby neighbors, but as is often the case it was gone before they could hear it, and next day everyone I told about it said i was 'daffy,' but it was verified in the following day's New York Times and heard as far west as Chicago," writes I. H. Kattell, 79 Sherwood Ave.. Binghamton, N. Y. "My best catch, in my estimation, was on February 18th this year, when at 4 a.m. I heard orchestra music coming through on 855 kcys., but could not understand the announcement, except

that I thought I heard the word 'Sydney.' I waited for another announcement with the same result, then consulted my list of world stations in RADEX and found that 2BL, Sydney, was on this channel. shown as having 2500 watts power. I wrote them on February 19th, asking them if they were on the air at this time, which I figured would be about 7 p.m. the evening before, and if they played certain selections with orchestra, and April 21st I received verification card. dated 'Sydney, Australia, March 20th, saying they were on with their National Broadcasting Orchestra and congratulated me on the reception and hoped to hear further from me."

Patient Tuning Rewarded

"I had a peculiar experience in DXing about a week ago," states Paul L. King, 1523 Madison St., Madison, Wis. "Up to that time I had never been able to pick up a transoceanic station, that is, farther away than Cuba or Porto Rico. On the morning of April 19th at 2:44, I caught 2YA, Wellington, N. Z., and heard their program quite clearly for 58 minutes, during which time I got plenty of material for verification. The very next morning I heard 2BL, Sydney Australia, for about 40 minutes, but due to heavy static and fading I failed to get enough material for verifying. After 2BL faded out, almost to the point of incredibility, I continued to fish and caught JOGK, Kumamoto, Japan. I heard an announcement and parts of two or three musical numbers by a Japanese orchestra. Due to the strangeness of the music and the fact that the announcement was in Japanese, I am unable to request a verification. Although I have heard neither JOGK nor 2BL since the 20th, yet I have heard 2YA every morning, but one, to date. Evidently the weather conditions must be ideal just now for long distance reception from the west. All of the west coast stations seem to be unusually loud the last three weeks or so."

"My biggest thrill came the other evening," states Charles Royal, R. 1, Box 438, Seattle, Wash., "when I heard an airplane talking to the ground station. I could even hear the motors. The ground station is very clear, but they do not announce. I have heard him talking to someone on the Yukon River. but I could not hear them answer. The ground station said that he could hardly hear the answer himself. I have heard him talking to planes in California and one coming over the pass in the Cascades. The plane in the Cascades was giving the weather report up there and telling about his trip so far, which was very clear and cold. This was coming in on my set above 1500 kcys. about onequarter inch. So far I have been unable to find out where this ground station is located. Have you any information on this?"

Cape Cod and Germany

"Here's my record, made 'way out on Cape Cod—far east for the United States," writes Theodore Vail Bullard, South Orleans, Mass. "312 stations, including Canada, Cuba and Mexico, with 14 on the west coast, one of only 250 watts—and one in Koenigsberg, Germany. The latter is worth writing about. I received the German signals at fair speaker volume on 1086 kcys. Held them for over an hour off and on, some fading. This was on an ordinary a. c. set (Amrad No. 81) with 125-foot conventional antenna, ground to a driven well 15 feet deep."

"I am writing you about three stations which I have failed to see where any of your readers or DXers mention in your magazine," remarks Wm. Bowers, 440 Vance St., Toledo, Ohio. "The first one is KPG, a 50-watt station in Wenatchee, Wash., on 1500 kcys. This station is seldom on with a DX program. The second one is a 100-watter in Seattle. Wash., KPCB. This one, however, is on the air every morning from 3 to 4 a.m. E.S.T., and comes in on 650 kcys. I noticed in your April issue there are several DXers who have ten or more stations on 1500 kcys., but KPG is not on their list. Here is the third and best one, I think, W9XV, on 1604 kcys., 2 watts power. This station is located at Carterville, Mo., and owned and operated by Lannie W. Stewart. It is on the air every morning from 5 to 6 a.m. E.S.T. He sends a very nice verification and

also his picture and is very prompt in replying."

"I have logged over 400 stations. including 37 signals over 2000 miles away and I do not try to get verifications from stations east of Denver. My best pickup has been KGFJ, Los Angeles, operating on 100 watts, and it has not been unusual to play 15 to 20 west coast stations during a single evening from the east coast. My best record has been to play KNX, Hollywood, four consecutive evenings before 8 o'clock E.S.T., which programs have been verified, and the receiver I used gave ten kilocycles separation with Baltimore or Hartford on one side or Hot Springs or Collas on the other. On the BCL band I have played one Japanese station and one from New Zealand, but have been unable to get KGU, Honolulu, because WFIW, at Hopkinsville, never seems to sign off before I am ready to sign off." James E. Perry, Masonic Temple, Salisbury, Md.

"In the four weeks since I got my radio I have received 150 stations from all over North America. I have verifications from KFRC, San Francisco, CMK, Havana, XED and XEW, in Reynosa and Mexico City, but perhaps my best catch is CKWX in Vancouver, a 100watter. All these I have received on a ground attached to a .00025 mfd. fixed condenser and then to the aerial post. This, I find, cuts down the volume on locals greatly, but brings in the distance. It also seems to eliminate fading." Francis G. H. Rice, Huntsville, Ont.

New Stations From Kitchen

"Last night I had the most excellent results in DXing without the use of aerial or ground," reports R. E. Moran. 540 Parkdale Ave., Ottawa, Ont. "The room being quite cool where I usually have the radio, I thought I would move it to a warmer room, this being the kitchen. I connected the radio, A Fada 25, 8-tube, to the incoming circuit at exactly 8:30 p.m. and the first station I hit was KOA, Denver, and before going to bed at 12:30 a.m., I pulled in numerous stations from coast to coast and at least one station in 27 different states. Some of these stations I have never got with an aerial attachment.

"I have logged about 265 stations in two years of DXing. I just started to collect verifications this year and have 161 stations verified to date. My best verified catches are CKWX, WRBL (using only 25 watts at the time), KGAR, XEV (south of Mexico City with 100 watts), and KGIQ. The set I use is a Kennedy Model XV, 5-tube battery set. I was the lucky Illinoisan to get a prize from Station KGGM for being the first person from this state to report reception of their station." Robert Thornton, 1450 W. 81st St., Chicago, Ill.

"The Mexican stations," comments A. H. B. Jordan, Everett Pulp and Paper Co., Everett, Wash., "have been acting like one of their jumping beans, and now the Canadian stations have started to do the same thing. CHWK is now on the same wave length as WEAF and WTIC and recently CFCN is broadcasting on about 985 kcys., spoiling reception from WBZ and KDKA. Apparently the agreement between this country and Canada, alloting the latter certain wave lengths, is not being kept by Canada, and our reception from eastern stations is gradually being eliminated."

Mexicans Move at Midnight

"Have just received some interesting information on the Mexican situation," writes Karl Halpern, 1435 Coney Island Ave., Brooklyn, N. Y. "From 8 a.m. till midnight they have to stay on their regular channels; after that time they may move to any frequency they want. The log you have on the Mexicans is right, but at 2 a.m. it won't be worth anything at all."

"I have been much interested in your DX reports. I have been doing a little DXing myself and while I have not made any records I have had lots of fun. I have received 281 stations since last November 1st on my 8-tube Airline special. These include 38 states; 17 stations in 7 Canadian provinces; 16 Mexicans; 3 Cubans; TIC, San Jose, Costa Rica; KGMB, Honolulu; JOHK and JOCK, Japan; 2YA, Wellington, N. Z.; OAK, Lima, Peru; LS1, Buenos Aires, Argentina. I use a 6-foot 1½-inch galvanized pipe, which I keep filled with water, for a ground and three interchangeable aerials. I work until midnight and my radioing, except one day a week, is done after midnight." Arlo F. Kelley, 4234 W. 15th St., Amarillo, Texas.

Ollie Ross' Record (Continued from page 5)

"My method for installing an underground aerial is as follows: Dig a ditch one foot deep and 100 feet long. Take a garden hose the same length and run a copper cable through it the entire length. Seal and tape the far end so that no water will get into the hose. The end of the hose next the set should stick out of the ground about one foot and an insulated wire should be securely soldered to the copper cable."

We are reprinting from the February, 1931, RADEX, the description of Mr. Ross's ground. "The most satisfactory ground I have found is copper tubing about an inch in diameter and three feet ten inches long. This tubing is wrapped spirally with No. 20 copper wire from one end to the other and back again, the laps being an eighth-inch apart. The wire is soldered to the tubing at each end but is uninsulated, although the lead from the ground to the receiver is heavily insulated and as direct as possible. This tubing is buried in rock salt which draws dampness from the ground in dry seasons."

"I would suggest that radio fans try the U. S. Standard Ground (see No. 46 RADEX, page 24)," goes on Mr. Ross in his letter. "Only if rods are used I find that a piece of seven-strand aerial wire soldered the entire length of the rod or pipe, will bring finer results. A wellinsulated wire should be soldered to the seven-strand wire on the rod or pipe (or the same wire carried direct to ground post of the set).

"Tubes should be checked over at least twice a year for often efficiency is marred by a gasey or faulty tube and DX reception is very much hampered.

"To date," concludes the worldfamous DXer, "I have tuned in and verified 1309 stations on every continent on earth and every country in the world having a broadcasting station. Very interesting but very hard work. In three months I "played" a radio for a total of 1452 hours—sometimes as much as 22 hours a day.

"As a steady user and reader of RADEX, I think it is unquestionably the most complete and satisfactory method used in logging radio stations. DX and radio fans should indeed appreciate RADEX. In four years I have not found a better or more helpful radio magazine."

Helping Our Readers

(Continued from page 15)

knowing that this would affect the operation of our all-electric receiver which was made for use on alternating current, we plugged it into the line buy got no results except a smell of tar which seemed to come from the radio itself. What is necessary to make the set operate

Receivers designed to operate on alternating current will not operate on direct current as the principle employed is radically different. What you have undoubtedly done, if the set was connected very long, is to burn out the primary winding of the transformer, which damage can only be remedied by replacing this transformer. The best thing to do in your case is to check up whether or not the set has actually been damaged, which is an easy matter by plugging it in on an alternating-current line of the proper cylces for which the set was designed. Take the set to a radio dealer who is supplied with this kind of current, If the set does not work you need a new transformer, and then get a motor-generator that can be run on direct current and will deliver the correct alternating current for the operation of the set. Janette converters jare made especially for this purpose.

Control Grates

The rheostat of our old Atwater-Kent battery-operated receiver causes a grating sound when it is turned. Is there any method of eliminating this unpleasant sound?

After a rheostat has been in use for some time it oxidizes and the surface of the wire winding becomes coated with oxide which prevents good contact with the slider. The best method of eliminating this is to replace the rheostat with a new one of the same value. However, in some cases it is possible to remove the coat of oxide by rubbing lightly with a piece of fine emery cloth or garnet paper, so that the slider will make contact with the cleaned surface.

No Current Available

We live on a farm where house-lighting current is not available, making it necessary to use a battery-operated set. Our set is a good one but we have more or less difficulty in charging the battery. This is usually done by putting it in the car and connecting it to the car battery, but we were wondering whether or not there is any easier method which does not necessitate such inconvenience Can you suggest any?

If you have an old auto generator of the 6-volt type, or can obtain one, it is a comparatively easy matter to mount this on the base of your portable gasoline engine, which you undoubtedly have, and then run the generator at its rated speed by belting it to the engine. Connect the output of the generator to the battery, positive to positive and negative to negative, which will charge the latter in a very short time. If desired, you can place the gasoline engine near the house and run heavy wires to the battery inside, making it unnecessary to take the battery out. However, the leads to the receiver should be disconnected during the charging process. By installing a switch on the line such disconnection is quickly accomplished.

Set Goes Broad

After sending our all-electric receiver out for test and repairs, it has become unaccountably broad in respect to tuning, atthough it was always quite sharp before. What would you say is the reason for this change?

Most receivers nowadays have trimmer condensers attached to the tuning condensers, for the purpose of equalizing the capacity so that all the condensers will work in perfect unison. Proper adjustment of these trimmers is necessary for sharp tuning and mal-adjustment often accounts for broadness of tuning. The proper method of balancing tuned-radio frequency receivers by means of the trimmer condensers was completely described in the May, 1930, issue of RADEX, No. 39.

Changes for June

		0,0
Frequence	ies	
665	CJRM	Moose Jaw, Sask., from 600.
665	CJRW	Fleming, Sask., from 600.
		Matanaga Cuba from 1240
780	CMGH	Matanzas, Cuba, from 1249.
840	CMC	Havana, Cuba, from 845
965	CMBC	Havana, Cuba, from 955.
865	CMBD	Havana, Cuba, from 955.
985	CFCN	Calgary, Alta., from 690.
1225	CMCD	Havana, Cuba, from 1345.
		Mariae City Mariae from 840
1300	XETY	Mexico City, Mexico, from 840.
Power		
588	CMW	Havana, Cuba, 700 to 1400.
660	CHWK	Chilliwack, B. C., 50 to 100.
		Hawana Cuba 2000 to 2150
730	CMK	Havana, Cuba, 3000 to 3150.
860	CMJE	Camaguey, Cuba, 5 to 20.
1210	CFNC	Fredericton, N. B., 100 to 500.
1210	CJOR	Sea Island, B. C., 50 to 500,
1225	CMCD	Havana, Cuba, 15 to 250. San Diego, Calif., 250 to 500. Tupper Lake, N. Y., 10 to 100.
1330	KGB	San Diego Calif 250 to 500
1420	WHDL	Turper Lake N. V. 10 to 100
		Tupper Lake, N. 1., 10 to 100.
1500	CMBR	Havana, Cuba, 35 to 15.
Owners		
570	WKBN	Youngstown, Ohio, to WKBN Broad-
		casting Corp.
1070	CMCB	Havana, Cuba, to Antonio Capablanca
1200	WRAF	LePorte Ind to South Band Tribune
		LaPorte, Ind., to South Bend Tribune. El Paso, Texas, to Bledsoe & Blackwell.
1310	WDAH	TA Paso, Texas, to Diedsoe & Diackweit.
1330	KGB	San Deigo, Calif,, to Don Lee, Inc.
1380	KQV	Pittsburgh, Pa., to KQV Brdestg. Co.
1420	WHFC	San Deigo, Canir, to Don Lee, inc. Pittsburgh, Pa., to KQV Brdestg. Co. Cicero, Ill., to WHFC, Inc. Chicago, Ill., to WKBI, Inc. Prescott Ariz, to A P. Miller
1420	WKBI	Chicago, Ill., to WKBL, Inc.
1500	KPJM	Prescott, Ariz., to A. P. Miller.
Deletio		Trescore, milz., to n. r. millor.
	CMCJ	Wayana Cuba
550		Havana, Cuba.
870	CMHH	Cifuentes, Cuba.
920	CMHD	Caibarien, Cuba.
1010	CMCX	Havana, Cuba.
1090	CMAA	Guanajay, Cuba. Matanzas, Cuba.
1094	CMGI	Matanzas, Cuba.
1315	CMGC	Matanzas Cuba
1332	CMJA	Matanzas, Cuba. Camaguey, Cuba.
		Daniaguey, Cuba.
1360	KPSN	Pasadena, Calif.
1429	CMHE	Santa Clara, Cuba.
1500	CMBP	Havana, Cuba.
1500	CMHB	Sagua la Grande, Cuba.
Locatio	ns	
1410	WAAB	From Squantum, Mass., to Boston,
		Mass.
1500	KGKB	From Brownwood, Tex., to Tyler, Texas.
New	nom	Trom Drownwood, Tex., to Tyter, Texas
	OTHAL	T-l-renten blie
580	CHMA	Edmonton, Alta.
1375	CMAC	Pinar del Rio, Cuba.
Calls		
1050	KFBI	Milford, Kans., from KFKB.
1300	KFAC	Log Angeles, Cal., from KTBI
1370	WRAM	Wilmington, N. C., from WRBT
	() ILIXIVI	managion, in On Home mith I
Chains	WNOV	Variatilla Trans and CBS
560	WNOX	Knoxville, Tenn., new CBS.
1010	WIS	Columbia, C. C., new CBS.
1410	WAAB	Boston, Mass., new CBS.

Protests From Mexico (Continued from page 12)

letter that conditions in Mexico are fast becoming better and that we have nothing serious of which to complain and then, as an afterthought, he adds that his company is to build a 50,000-watt station to operate on the same channel with a powerful American station! There have been rumors that this is a "spite" station to get even with a big station here which opposed Dr. Brinkley's

operation of KFKB. Be that as it may, why should the Mexican authorities permit a station to be erected to use a frequency only for the purpose of destroying it? For no 50,000-watt station can occupy the same frequency as a "powerful American station" without completely destroying reception on that and perhaps adjacent channels.

The Monthly Forum

(Continued from page 9)

"Yesterday morning at about 4:15 E.S.T. I picked up a station in Calgary, Alta. According to RADEX, there are five stations in Calgary, all on 690 kcys., which was the wavelength on which I heard them. This station use the slogan "The Voice of the Prairie' several times, although I was unable to catch the call letters. If you should happen to know which of the five stations uses this slogan, I should certainly appreciate knowing it," requests Sturges D. Dorrance, Jr., 175 Riverside Drive, New York City.

This afternoon at about 3:30 o'clock I received a station on about 1050 or 1060 kcys.," says Edwin Erman, Fessenden, N. D. "They signed off at 4 o'clock C.S.T. Their call letters were WBIH or WCIH, I couldn't quite get which. They said next Sunday they would be on the air for the last time until fall. I would like to receive some information on this."

"We are now going to ask you if you are able to give us some information relative to a station that we heard on Saturday, December 20th, at 1:45 a.m. E.S.T." writes Hedley Simmonds, 23 Clyde St., Hamilton, Ont. "This station gave a call which sounded like WMBA or WNBA and gave their location as Silver Haven. They mentioned the fact that they operated on 1200 kcys. by authority of the Federal Radio Commission and then signed off."

"I would like to know if any of your readers have picked up foreign stations, such as Hawaii, Japan, Central or South America, on such a small set as I operate, two tubes," inquires Douglas J. Blackwell, 14 Walnut St., London, Ont.

"I would like to know when stations on 1030 kcys. are on the air," inquires Lorne Chafsut, Kapuskasing, Ont. "I have not been able to bring them in and I have logged every channel excepting five, but 1030 seems to be the most elusive."

"Please tell me when CMK, Havana, on 730 kcys. broadcasts?" asks John Bullock, 260 Edgewood Ave., New Haven, Conn. "Also if it is possible for a person living in New Haven to get European and Asiatic stations, and when could I have the best chance to get them, and at what time."

"At 10:15, April 2nd, I tuned in a station broadcasting on a frequency of 920 kcys., but on account of interference I could not get any announcement except for the call letters which I am sure were KMJB. Does anyone know where this station is located?" asks Edwin H. Chandler, Ranfurly, Alta.

Here is another inquiry from Mr. Chandler: "This morning from 3 until 4 I heard a foreign station broadcasting on about 753 kcys. The program seemed to be a religious one, a man lectured for some time, and following that hymns were sung to an organ accompaniment. I could not get any announcement from this station. Did anyone else hear this? I also heard 2YA, 2BL and 3LO this morning." Orin M. Stuart, Laurel, Mont., reports a station on 910 kcys. in Saskatoon, Sask., giving call letters CJHS being received since the first of the year. A list just received from the Dominian Government gives no data on this station. Can our readers advise us further regarding it?

The Editor Answers

"Are there two WTIC, Hartford, Conn., stations?" asks Alvin D. Strong, Box 171, Bessmer, Ala. "May's RADEX lists one on 660 and one 1060 kcys.; also WEHC, Emory, Va., was moved to 1350 from 1200 kcys."

And "Could you tell me," inquires Howard Byrne, 907 Sixth St., Bismarck, N. D., "why I received WJZ's call letters in back of KOA? It was during a pause in the NBC for the station call letters."

The synchronizing of stations WTIC and WBAL with WEAF and WJZ respectively was fully explained in the May issue, page 3. As for the change in WEHC, frequently corrections in data are received at the last minute before going to press and we make the change in the index but are not able to mention it in "This Month's Changes." In regard to WJZ on KOA's wave we can (Continued on page 62)

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KEY TO CHAIN STATIONS

C — Columbia

N - National				C — Columbia
CFCF 1030 N	KPRC 920 N	WCAU 1170 C	WHAS 820 N	
CFRB 960 C		WCCO 810 C		
CKAC 730 C	KSCJ 1330 C	WCFL 970 N		
CKGW 690 N	KSD 550 N	WCKY 1490 N		
KDKA 980 N	KSL 1130 N	WCSH 940 N		WOC 1000 N
KDYL 1290 C		WDAE 1220 C	WIBO 560 N	
KECA 1430 N		WDAF 610 N	- WIBW 580 C	
KFAB 770 N	KTHS 1040 N	WDAY 940 N		
KFH 1300 C	KTRH	WDBJ	WIP	wowo
KFI	— 1120 C———— KTSA	930 C	610 C WIS 1010 C	
640 N KFJF	— 1290 C KVI		WISN 1120 C	WPTF 680 N
1480 C			WJAR 890 N	WQAM 560 C
1020 N KFPY		1330 C	WJAS 1290 C	WRC 950 N
1340 C	1350 N	1250 C	- WJAX 900 N	
610 C		660 N	- WJDX 1270 N	
600 N				
550 N		— 1290 N—		
KGO 790 N	1240 C			
KGW 620 N		WENR 870 N	570 C	740 N
KHJ 900 C		WFAA 800 N	- 1480 C	650 N
KHQ 590 N			550 C WKY 900 N	
KLRA 1390 C			WLAC 1470 C	
KLZ 560 C			- WLAP 1200 C	WTAG 580 N
КМВС 950 С		WFI 560 N		
КМОХ 1090 С			- WLBZ 620 C	
KOA 830 N			- WLIT 560 N	
KOH 1380 C KOIL			- WLS 870 N	
1260 C				- 620 N
940 C KOL	990 N			
1270 C KOMO	1220 N		- 670 C	920 N
920 N KPO 680 N			- 780 N	570 C
080 IN		1150 N		

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WHAT'S ON THE AIR TONIGHT? A WEEKLY CALENDAR Leading Features of the Network Program

Time is given by Eastern Daylight Saving. For Eastern Standard time, subtract one hour; for Central Time, two hours for Mountain Time, three hours; and for Pacific Time, four hours.

Programs of the National Broadcasting Company begin with WEAF and WJZ; those of the Columbia Broadcasting System with WABC.

These programs are correct to date but are subject to change daily thereafter

Daily	(Excep	t Satu	ırday	and S	unday)
6:45-8:00 T	ower Hea	lth Exerc	ises		
WEAF	WEEI	WFI	WGY	WCAE	WRC
WBEN 8:00-8:15 G		Clann -	Quaker H	a de Die	
WEAF	WJAR	WEEI	WTAG	WCSH	WFI
WRC	WGY	WCAE	WTAM	WWJ	WŜĂI
CKGW	WRVA	WPTF	WJAX	WIOD	WFLA
WSUN					
8:15-8:30 N	lorning D	evotions	WOW		THOM:
WEAF WFI	WRC WCSH	WCAE WJAR	WGY WWJ	WHAS WPTF	WOW WIOD
WAPI	WFLA	WSUN	WTAG	WGN	WJAX
WJDX	WRVA	WBEN	WSMB	WFI	
8:30-9:00 C					
WEAF	WEEI	WCKY	WRC	WCSH	
WHO	WOC WSM	WDAF	WAPI WPTF	KPRC	WFI
WSB WBEN	WDVA	WJAX CKGW	WIOD	WTAG WHAS	
WSUN		WMC	WJDX	WJAR	WGY
WOW	WCAE	WMC WIBO			
9:00-9:30 M	orning Mo	oods			
WABC	WFBL	WKBW	WDRC	WPG	WIP
WFAN WSPD	WMAL	WDBJ WDSU	WAIU WBBM	WBT	WBCM
KMBC	WLAC KOIL	KFH	KFJF	WMT WACO	KMOX CFRB
WAAB	non	171,11	ILL'OF	11 100	OFILD
9:15-9:45 C		Orchestr			
WEAF	ŴJAR WBEN	WLIT	WTAG	WCSH	WRC WSAI
WDAF	WBEN	WCAE	WHO	WTAM	WSAI
KSD 9:30)	WOW	WOC	WWJ	CKGW	(WLS on
9:45 10:00	A. & P. P.	ogram			
WEAF	WJAR	wTAG	WCSH	WRC	WGY
WCAE	WTAM	WWJ	WOC	KSD	WHO
WDAF	WTMJ	WEBC	WRVA	WPTF	WIOD
W FLA WAPI	WSUN	WHAS	WSM	WMC	WSB
WOAI	WSMB WKY	WJDX WBEN	KVOO WOW	WBAP WFI	KPRC KSTP
WIBO	11 12 1	W D BH	101	W 1 1	ROII
11:15-11:50	Radio Ho	usehold	Institute		
WEAF	WJAR	WTAG	WCSH	WLIT	WRC
WHAS	WSM	WSB	WCAE	WWJ	WSAI
KFKX WAPI	WTAM WSMB	KSD WOAI	WTMJ KTHS	KSTP KVOO	WEBC KPRC
WKY	WEEI	WGY	WMC	WBEN	KFRU
12:00-12:30	Paul Trei	maine an	d His Ore	hestra	
WABC	WHEC	WLBZ	WORC	WPG	WCAU
WHP	WJAS WHK	WLBW	WMAL	WCAO	WTAR
WDBJ	WHK	WKRC	WAIU	WWNC	
WREC WDAY	WLAC KOIL	WBRC WIBW	KSCJ KFJF	WMT KLZ	KMBC
12:30-1:00 (ILL'ST	KU2	
WABC	WLBZ	WORC	WPG	WCAU	WHP
WJAS	WLBW	WMAL	WCAO	WTAR	WXYZ
WBCM		WREC	WLAC	WBRC	KSCJ
WMT	KMBC	WDAY	WIBW	KFJF	KLZ
1:30-2:30 N WJZ	WHAM	WJR	KSTP	WRVA	WHAS
WREN	WFAA	WEBC	WIOD	WAPI	WOW
WMC	WSB	WGAR	KVOO	WAPI WKY	WOAI
WRC	WHO	WDAF	WJDX	WBAL	WSMB
KWK WFLA	KOA WSUN	WBZ WJAX	WBZA KFAB	WOC KPRC	KTHS KDKA
WLW	KFKX	WPTF	WSM	MINU	ADAA
1:30-2:00 H					
WABC	WHEC	WLBZ	WEAN	WPG	WFAN
WJAS	WLBW	'₩MAL	WCAO	WTAR	WDBJ
WKRC	WAIU	WWNC	WXYZ	WBCM	WDOD
WLAC	WBRC				

ale subje		sc	auny	mereu	, ici
2:45-3:00 Pi	ano Moor	ls			
WJZ	WBAL	KDKA	KWK	CKGW	WREN
WJR	WFLA	WSUN	WRVA	WSB	WMC
WILLN				1100	W MO
	WGAR	WGN	KFAB		
3:00-3:15 Co	lumbia S		hestra		
WABC	WHEC	WLBZ	WEAN	WNAC	WORC
WPG	WHP	WLBW	WMAL	WCAO	WTAR
WDBJ	WHK	WKRC	WAIU	WWNC	
		WDOD			WAIL
WBCM		WDOD	WREC	WLAC	WBRC
KSCJ	WMT	KMBC	WDAY	KOIL	WIBW
KFJF	KRLD	KTRH	KLZ	CFRB	
5:00-5:30 TI	n Indy N	Javi Doo		01 100	
WEAF	WRC	KSD	WTAG	WSM	WHAS
			WIAG	WSM	wnas
WKY	KPRC	WTAM			
5:30-5:45 Li	ttle Orph	an Annie			
WJZ	WBZ	WBZA	WBAL	KDKA	WGAR
6:05-6:30 Bl					W GILLE
0:03-0:30 DI	ACK ANU			ira .	THE DAY
WEAF	WCAE	WCSH	WWJ	WJAR	WBEN
6:45-7:00 Li	terary Di	gest Topi	CS		
6:45-7:00 Li WJZ	WBZ	WBZA	WHAM	WBAL.	KDKA
WRVA	WDTP	WJAX	WIOD	WLW	WFLA
	44 E 1 F	WJAA	100	11 11 11	14 P L L A
WSUN					
7:00-7:15 Ar	nos 'n' Ar	ıdy			
WJZ	WHAM	KDKA	WBZ	WBZA	WRC
	WRVA	WPTF	WJAX	WIOD	WCKY
	WSUN	WLW			WBAL
WFLA	WOUN	WLW	WJR	WGAR	WDAL
CFCF					
7:30-7:45 Ph	il Cook –	– Austar	Man		
WJZ	WBZ	WBZA	WHAM	KDKA	WREN
KWK	WTMJ	WEBC	KOA	KSL	KGO
KECA	KGW	WRC	комо	KHQ WPTF	KFSD
KTAR	WGAR	WSMB	WSB	WPTF	WJAX
WIOD	WFLA	WHAS	WSM	WMC	WJDX
KTHS	KPRC	WOLL	AA DIAT	W MO	HODA
		WOAI			
11:00-11:15					
WMAQ	KWK	WREN	WDAF	WTMJ	KECA
KSL	WHAS	WSM	WSB	WKY	WENR
KSTP	WSMB	WJDX	KTHS	KPRC	WEBC
KGO	KHQ	KOMO	KGW	KFSD	WOAI
WMC	KOA	KFAB	WBAP		
11:15-11:30	Arthur Pr	vor's Cre		arv Band	
WADC	WKBW	WKRC	WHK	WOWO	KMBC
WLBW	KOIL	WJAS	KMOX	WFBL	WSPD
WGST	WBCM	WBRC	WDOD	WRR	KLZ
KOIN	KOL	KFPY	WHP	KTRH	WFBM
KLRA	WCCO	WISN	WREC	WCAH	WLAC
WDSU	KFJF	KSCJ	KTSA	KDYL	WIBW
			IN I DA		
WMT	KFH	WKBN	WNAX	KOH	WTAQ
WLAP	WOKO	WACO			
		S	10.00		
		Sunc			
1:00-2:00 Na					-
WEAF	WJAR	WCSH	WRC	WGY	WCAE
WTAM	WWJ	KSD	WOW	WOC	WHO
WDAF	CKGW	WTMJ	KSTP	WEBC	WHAS
KPO	KOA	KGW	KFSD	комо	KECA
WBEN	KGO	CFCF			
1:30-2:00 Gy	osy Trail				
WABC	WFBL	WHEC	WGR	WDRC	WPG

	M ADU	WIDL	W LLC	nun	WDRU	WIG
	WHP	WJAS	WMAL	WTAR	WDBJ	WADC
	WAIU	WBT	WXYZ	WBCM	WSPD	WISN
	WTAQ	WCCO	KSCJ	WMT	KMBC	KOIL
	KFJF	KLZ	CFRB	WAAB		
2:3	0-3:00 Ye	ast Foam	ners			
	WJZ	WBZ	WBZA	WBAL	WGAR	WJR
	WLW	KDKA	KYW	KWK	WREN	KFAB
	WTMJ	KSTP	WEBC	WRVA	WPTF	WIOD
	WFLA	WSUN	WJAX	WHAS	WSM	WMC
	WSB	WAPI	WJDX	WSMB	KTHS	KVOO

WFAA KPRC WOAI WKY KPO KECA KGW KHQ KOA KSL KTAR KFSD 2:30-3:00 NBC Artists Service Program WEAF WOW WWJ KSD WRC WGY WCAE CFCF 3:00-4:00 National Youth Conference WJZ WBAL KDKA KWK WRVA WJAX WIOD KVOC WFLA WSUN KGW WPTH KSTP WEBC WMC WSMI WREN KFAB KVOO WOAL WFAA WPTF KGO WSMB KPRC KOA WKY **KPO** KOMO KHQ WSB WAPI WGAR WTMJ KSL 3:00-4:00 Symphonic Hour with Toscha Seidel WABC WFBL WHEC WKBW WCAU WHP WMAL WCAO WTAR WDBJ WBT WXYZ WBCM WLAC WADC WJAS WAIU WBRC WDSU WISN WTAQ WFBM WGL WBBM WCCO KSCJ WMT KMB WMAQ KMBC KOIL WAAB KFH KFJF WACO KIZ CFRB 4:00-4:30 Williams Oilomatics KDKA WJR WGAR WJZ WBZ WBZA WREN KFAB WBAL WLW KWK 4:00-5:00 Dr. S. Parkes Cadman WEAF WEEI WJAR V WCSH WTAG KOA WOAI WSAI WJAX WHAS wōw WKY KVOO WSUN KPRC WEBC WDAF WWJ WJDX WÕC WHO KGO WFLA KHQ KĞŴ WFJC WPTE KOMO WCAE WRC WBAP WMC WGY WSMB WAPI WSM KTHS WSB WBEN WRVA WIOD 4:00-5:00 Cathedral Hour -S:00 Cathedral Hour WABC WFBL WHEC WKBW WCAU WHP WJAS WLBW WMAL WCAO WTAR WDBJ WHK WAIU WBT WXYZ WBCM WSPD WBRC WDSU WISN WTAQ WFBM KMOX KMBC WLAC WBBM KSCJ KFH KFJF WMT WGL KOIL KFH WACO KLZ WAAB 5:00-5:30 Rev. Donald Grey Barnhouse WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WADC WKRC WXYZ WSPD WOWO WMAQ KOIL KRLD WRR 5:00-6:00 National Vespers WBAL WHAM KWK WEBC WIOD WMC WREN WCKY WJZ WJDX WMC комо KSTP WSUN KVOO KPRC WFLA KOA WPTF KTAR KGO KGW KHQ WSM WSB WOAI WAPI WSMB WBZ WGAR (KFAB on 5:15) (WIBO on 5:30) WKY WBZA 5:00-6:00 Pop Concerts WEAF WEEI WJAR WTAG WCSH WFI WRC WBEN WTAM WSAI WENR WOC WHO WDAF CKGW CFCF WGY 5:30-6:00 Pastorale WFBL WKBW WEAN WDRC WNAC WABC WCAO WADC WHK WOWO KMBC KOIL WHK WKRC WCAU WJAS WXYZ WSPD 6:00-7:00 Catholic Hour WEAF WEEI WJAR WTAG WCSH WRC WGY WWJ WEBC WIOD WKY WJDX WSMB KTAR WFLA KSTP KGW KOMO KSD KGO WFJC WHO WCAE KECA WOC WHAS KOA WDAF WJAX WMC WRVA WBAP KPRC WOAI WSB ŴLIT WFI KV00 WSAI WSM WIBO 7:00-7:15 The World's Business WABC WFBL WHEC WGR WPG WIP WHP WIAS WLBW WMAL WDBJ WBT WXYZ WLAC WTAQ WMAQ WBBM WCCO KMOX KMBC KOIL KFII WMAL WCAO WFAN WBRC WTAR KSCJ WDSU KEJF WMT WACO KLZ 7:05-7:30 Old Stagers Memories WEAF WEEI WJAR WTAG WCSH WLIT WDAF CFCF WDAY WGY WWJ WSAI KOMO WTIC WOW KFYR KGO KSD WBEN KECA WRVA WFLA WSIIN KGO WJDX WSM WAPI KGW WIOD 7:15-7:30 Piano Pals WIP WHEC WGR WFAN WABC WFBL WCAO WTAR WMAL WHP WJAS WLBW WDBJ WLAC WBRC WADC WBT WXYZ KMOX WTAQ WCCO KSCJ WMT WDSU WACO KLZ KFH KFJF KMBC KOIL

7.20 8.00 TL	Combo				
7:30-8:00 The WABC WNAC	WFBL	WHEC	WGR	WEAN WLBW	WDRC WMAL
WTAR	WDB.	WHP WADC WDSU	WJAS WAIU	WBT	WXYZ
W LAC KSCJ	WBRC WMT	WDSU KMOX	WISN KMBC	WTAO	WCCO KFH
KFJF	WACO .	K L Z	KMB U	KOL	171.11
7:30-8:00 RC WEAF	A Victor	Program	WCSH	wwj	KPRC
WBEN KYW	WRC	WTAG WGY	WCAE	WTAM WSUN	WSAI WHAS
KYW KSD	WDAF	WTMJ	WFLA WEBC	WMC	WSB
WSMB KOA	WJDX	KTHS KGO	KVOO KFI	WOAI	WKY KFSD
KGW				AIAG	RIDD
8:00-8:15 En WJZ	na Jettick WBZ	KHQ Melodi WBZA WREN	WHAM	KWK	KYW
WKY	WJR WSM	WREN WTMJ WIOD	WFAA	KPRC KDKA	WOAI WMC
WHAS KOA	WENK	WIOD	KSTP KTHS	WSMB	KOMO
KOA KFI WSB	KGW WPTF	KSL WRVA	KHQ WFLA	WLW	WCKY KFAB
VECD	VTAD	WJDX	KPO	WSUN KVOO	KHQ
8:00-8:15 "I WABC	Devils, Dr WFBL	ugs and WHEC	WGR	WEAN	WDRC
WNAC WHK	WUAU	WJAS WGST	WMAL	WEAN WCAO WSPD	WADC
WLAC	WKRC WBRC	WDSU	WXYZ WISN	WOWO	WREC WFBM
WMAQ WIBW	WCCO WRR	KSCJ KTSA	KMOX KLZ	KMBC KDYL	KOIL KVI
KOL	KFPY	KOIN	KHI	KFRC	H (I
8:00-9:00 CH WEAF	ase and S WJAR	Sanborn WTAG	Choral O WCSH	wRC WOW	WGY
WCAE WIBO	WJAR WWJ	WSAI WHO	KSD WOC	wow	WIOD
WEBC	KSTP WMC WOAI	WSB WTMJ	WAMB	WHAS WKY	WLIT KTHS WIOD
KPRC WFLA	WOAI WSUN	WTMJ WDAF	WTAM WTIC	WKY WJDX KVOO	WBEN
8:15-9:15 Co	llines Ras	lio Hour			WJR
WJZ WLW	WBZ KYW KOMO	WBZA KWK	WHAM WREN	KOA	KSL
VUO	KOMO	KFI	KGW -Freddie	KPO Rich's Or	chestra
8:45-9:00 RI WABC WCAO WTAR	WHEC	WGR WHP WADC WTAQ WMT KLZ	WEAN WJAS WAIU	WDRC WLBW	WORC
WUAU	WDBJ	WADC	WAIU	WXYZ	WSPD
WDSU WCCO	WISN KSCJ	WTAQ WMT	WOWO KMOX	KMBC	WBBM KOIL
KFH	KEIF	KLZ	CFRB David L		
WEAF	Our Gove WTAG	WCSH	WEBC	WGY	WHAS
KSD WSM	WKY WFAA	WSAI WOW	WFJC WOAI WOC	WSB WSMB	WHAS WMC WJDX
WIOD	WKY WFAA WFLA KVOO	WSUN	WOC	WHO	WRC
WWJ 9:00-9:30 C	A Plane	WLIT irl — Ire	WBEN ne Bordo	WJAR ni	
WABC WCAU WKRC	WFBL WJAS WXYZ	WGR WMAL	WEAN	WDRC WADC	WNAC WHK
WKRC	WXYZ	WSPD	wowo		кмох
KMBC 9:15-9:45 A	twater Ke	ent Progr	am		
WEAF WTAM	WEEI	WRC WSAI	WFI KSD	WGY WOW	WCAE WSM
WFAA	KOA	TTO A T	WSMB	KFI	KGW
KOMO WGN	WSB	WOAI KHQ WOČ	KPRC WHO	WKY WMC KSTP	WHAS WDAF
KSL 9:30-10:00	CKGW Graham-F WFBL WJAS	WAPI Paige Ho	WBEN	KSTP	
9:30-10:00 WABC	WFBL WJAS	WKBV	WEAN	WDRC	WNAC WHK
WCAU WKRC	WJAS WBT	WMAI WGST	WCAO WTOC	; WUAN	I WDBO
WDAE	: WXYZ	WSPD	WREC	WDSU	WOWO KFJF
WBBM KRLD KFPY	KOIN	KMOX KTSA	KMBC KLZ	KOIL KDYL	KOL
	KOIN Iodent Ch	KHJ ub of the	KFRC		
WEAF	wwr	WSAI	WENH	KSD WTAG WBEN	WOW WCSH
WDAF WFI	WRC	WSAI WCAE WTAN	WENF WJAR WGY	WIAG	WEEI
9:45-10:15 WJZ	Westingho WBZ	wBZA	ute WBAL		
WGAR	WJR.	WCKY	KYW WSB	WHAM WREN WSME	WTMJ WJDX
KSTP	WHAS	WMC	WSB	WSME	WIDY

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KVOO KPRC WFAA WOAI WDAY KFYR KWK WKY 10:00-10:30 Royal's Poet of the Organ WABC WFBL WKBW WEAN WNAC WCAU WJAS WLBW WFBL KKBW WEAN WNAC WCAU WKRC WGST WXYZ WSPD WLAC WOWO WBBM KMOX KMBC KOIL KLZ KOL KFPY KOIN KHJ KFRC LO 20 WLALALON KHJ KFRC KLZ KDYL KFRC 10:15-10:30 World Adventures with Floyd Gibbons WJZ WBZ WBZA WBAL KDKA WJR WGAR WENR KWK WREN WGAR WEAR KWA WAEA 1015-10145 National Dairy Productions WEAF WEEI WJAR WTIC WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ WSAI WOW WDAF WSB WAPI WCAE WYCH WOW WDAF WSB WAPI WSMB WJDX WRVA WJAX WIOD WFLA WSUN WHAS WSM WMC 10:30-10:45 Fortune Builders WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WDSU WOWO WFBM WBBM WCCO KMOX KMBC KLRA KDYL KOL KRLD KLZ KFPY KOIN KFRC KHJ WJZ WBZ WBZA WHAM KDKA WJR KWK WENR WREN WBAL WLW 10:45-11:00 Star Reveries WLBW WCAO WTAR WKRC WCAH WKBN WTOC WQAM WDBO WLAP WDOD WREC WKBW WPG WJAS WDBJ WADC WHK WWNC WBT WGST WUNC WBT WGST WDAE WXYZ WSPD WLAC WBRC WDSU WFBM WBBM WCCO KLRA WNAX KOIL WTBH WTSA KUZ WISN WTAQ WOWO KSCJ WMT KMBC WIBW KFJF KDYL KOH KRLD KTRH KTSA KLZ KDY KOL KFPY KOIN KHJ KVI KFRC WSAZ WNOX 10:45-11:15 Sunday at Seth Parker's WGY WOW WCAE WTAM WHO WEBC WEAF WDAF WEEI WCSH WRC CKGW WTMJ KSTP WWJ KYW WOW WIOD WHAS WSM WFJC WJAX WJDX KPRC WKY KOA KGO KGW KFSD WRVA WBEN WLIT 11:30-12:00 Russian Cathedral Choir WKY WSB KTAR WEAF WRC WFJC WWJ WBAP KOA WOW WSB WGY WTAM KSTP WEBC WIOD WHAS WBEN WIDD WHAS WBEN 11:30-12:00 Around the Samovar WABC WFBL WKBW WEAN WDRC WNAC WCAU WMAL WCAO WTAR WDBJ WBT WXYZ WSPD WBRC WDSU WTAQ WFBM WBBM WCCO KSCJ WMT KMOX WNAX WFDW VYZ KFH KFJF KLZ Monday 3:00-4:00 Woman's Radio Review WEAF WEEE WTIC WJAR WSAI KYW KSD WOC WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ WHO WOW WDAF WOW WAAF 3:30-4:00 Chicago Serenade WJZ WHAM WJR WLW WLS KDKA WFLA WSUN WMC WAPI WJAX WGAR 4:00-4:30 Dance Orchestra WJZ WBAL KSTP KTAR KOA KGO KFSD WHAM WSM WSB WSMB KWK WMC WBZ WBZA WGAR KYW WMC WD2 WD2 WD2 4:00-4:30 U.S. Army Band WABC WLBZ WEAN WNAC WORC WPG WCAU WLBW WMAL WCAO WTAR WDBJ WAIU WWNC WXYZ WBCM WSPD WDOD WAIU WWNC WXYZ WBCM WSPD WDOD WREC WLAC WBBM WCCO KSCJ WMT KMOX KMBC WDAY KOIL KFJF KRLD

KTRH KLZ KOL KFRC CFRB 4:30-5:00 Wardman Park Holel Orchestra WABC WLBZ WEAN WNAC WORC WPG WFAN WHP WLBW WMAL WCAO WTAR WDBJ WKRC WAIU WWNC WXYZ WBCM WSPD WDOD WREC WLAC WBRC WCCO KSCJ KMOX KMBC WDAY KOIL WIBW

KFJF KRLD KTRH KTSA KLZ KFRC CFRB KOL 6:15-6:45 Mormon Tabernacle Choir WJZ WBAL WSM KWK KOA KOMO KFAB KGW CKGW KPO WHAS WAPI KFSD KSL KGO CKGW KSTP KTAR KPO WRC WSMB WSMB 7:00-7:15 Current Events---Kaltenborn WDBJ WKRC WWNC WXYZ WBCM WDOD WBRC KSCJ WMT WDAY KOIL WABC WHCC WLBZ WORC WHP WJAS WLBW WMAL WCAO WTAR WIBW KFH KFJF KTRH KOL KFRC 7:15-7:30 The World Today WEAF WFI WSAI WOW KGO KECA KGW KOMO KFSD KTHS WENR WFAA KSD KOA 7:15-7:30 T-itvest Laters WBCM WDOD 7:15-7:30 Tastyeast Jesters WJZ WCKY WHAM WBZ WBZA WREN KDKA WRC WGAR 8:00-8:15 "How's Business?" WEAF WJAX WJAR WWJ KOMO WSAI KVOO KECA KHQ WEBC WSMB KGW WRC KSD WCAE WRC KSD WOA WDAF WJDX KGO WFLA WSUN WHA WFLA WSUN WHA WHAS WMC 8:15-8:30 Pennzoil Pete WHAS WSM WMC WSB WDAF WEBC WRVA WPTF WSUN WIOD WSMB WJDX WKY WFAA WOAI CKGW WTMJ WWJ WFLA KTHS KSTF 8:15-8:30 Barbasol Program WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WFBM WCCO KMOX KMBC KOIL 8:30-9:00 A. & P. Gypsies WEAF WEEI WT WTAG WJAR WTIC WCSH WGY WCAE WWJ WSAI WOC WDAF WTAM WOW WLIT WRC WGN KSD WHO WBEN WHO WDEN 8:30-9:00 Gold Medal Express WJZ WBZ WBZA KDKA WJAX WIOD WFLA WSUN WGAR WJR WLW WOAI WKY KYW KWK WREN KOA KSL KFAB WRVA WPTF WBAL 9:00-9:30 Maytag Orchestra WJZ WBZ WBZ WJZ KWK WBZA WHAM KDKA WJR KSTP WEBC KTHS WKY KYW KSTP WEBC KTHS WKY WOAI KOA KSL KGO KECA KGW KOMO KVOO WLW КHQ WFAA KPRC WGÅR 9:00-9:30 The Three Bakers WABC WFBL WHEC WKBW WLBZ WEAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WDBJ WAAS WLDT WKRC WWNC WDA WTOC WQAM WDBO WDAE WXYZ WSPD WDOD WREC WLAC WBRC WDOD WREC WLAC WBRC WGST WBCM WBRC WDSU WOWO WFBM WMAQ WCCO KMOX KMBC KLRA WDAY WIBW KFH KFJF WRR KLZ KDYL KOL KFPY KSCJ WMT WNAX KOIL KTRH KTSA KLZ KOIN KFRC KHJ 9:30-10:00 Chesebrough Real Folks WJZ WBZ WBZA WHAM KDKA WLW KWK KYW CKGW WJR WGAR 9:30-10:00 General Molors Family Party WEAF WEEI WJAR WCSH WTAG WLIT WRC WGY WCAE WTAM WWJ WGN KSD WOC WOW WSAI WDAF KSTP WTMJ WHAS WOW WSAI WDAF WTMJ WHAS WSM WMC WSB WJAX WFAA WOAL WMC WSB KPRC WFAA WOAI WKY KSL KGO KGW KFI KOMO KHQ WTIC

WHO WBEN WCAE 9:30-10:00 Bourjois WABC WFBL WKBW WEAN WNAC WCAU WJAS WLBW WMAL WCAO WADC WHK WKRC WBT WXYZ WSPD WOWO WBBM KMOX KMBC KOIL

[30]

10:00-10:30 Robert Burns Panatela Program WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WFBM WMAQ WCCO KMOX KMBC KOIL KFJF KRLD KTRH KTSA KLZ KDYL KVI KOL KTRH KTSA KLZ KFPY KOIN KHJ KFRC KFPY KOIN KHJ KFRC 10:00-10:30 Stromberg-Carlson Program WJZ WBZ WBZA WHAM KDKA KYW KWK WIREN WEBC WRAW WJAX WIOD WHAS WSM WMC WSB WSMB WOAI KOA KPRC KGO KFI WCKY KGW KHQ KOMO WJDX WFLA WSUN WJR KTAR KFSD WAPI WKY WGAR 10:00 10:30 Advastive of Sbarlock Holmest NIAR DESD WALL WEAR 10:00-10:30 Adventures of Sherlock Holmes WEAF WJAR WCSH WWJ WTAG WEEI WLIT WTAM WSAI WRC WGN WOC WHO WBEN WCAE 10:30-11:00 Empire Builders WHAM KDKA WJR WREN WTMJ WOAI WBZ WJZ WBZA WLW KYW KWK WEBC KOA KGO KSTP KSL KECA KGW KOMO KHQ WBAP KPRC WGAR KTAR KFSD WKY 10:30-11:00 Symphonic Rhythm Makers WEAF WJAR WTAG WRC WCAE WTAM WWJ WJDX WGY CFCF WEEI WENR WEAR WIDX WGY CFOR WWJ WJDX WGY CFOR WABC WFBL WEAN WDRC WNAC WORC WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WWNC WBCM WDOD WREC WBRC WISN WTAQ KSCJ WMT KMBC WLBA WNAX KFJF KTSA KFPY CFRB WOKO 11:00-11:15 Paul Tremaine and His Orchestra WABC WFBL WKBW WDRC WORC WCAU WLBW WMAL WCAO WTAR WBJ WADC WBT WBCM WSPD WLAC WBRC WDSU WTAQ WOWO WFBM WCCO KSCJ WNAX KOIL KFJF WACO KLZ WISN WMT CFRB WAAB 11:00-11:30 Florence Richardson and Orchestra WEAF WCAE WOW (WSAI off 11:15) (WJDX WMC WSB KSD WSM on 11:15) CFCF WIOD 11:30-12:00 Hal Kemp and His Orchestra WEAF WEEI (WTAM on 11:35) KSD WOC WHO WIOD (WOW WDAF WTMJ on 11:45) WDAY WAPI WGY KOA KSTP WEBC Tuesday 10:15-10:30 Through the Looking Glass WJZ WBZ WBZA WHAM WLW KFKX KDKA KWK CKGW KFAB WKY KVOO WOAL WBAP WGAR KVOO WOAI WBAP WGAR 4:00-4:01 Halian Idyll WABC WLBZ WEAN WNAC WORC WPG WCAU WLBW WMAL WCAO WTAR WDBJ WKRC WAIU WWNC WXYZ WSPD WDOD WREC WLAC WBRC WBBM WCCO KSCJ WMT KMOX KMBC WDAY KOIL KFJF KTRH KTSA KLZ KFRC CFRB 5:00-5:00 Pond's_d to Raistory' Orbesto KTRH KTSA KLZ KFRC CFRB 5:00-5:30 Pond's -Lee Reisman's Orchestra WEAF WRC KSD WTAG WWJ WCSH WEEI WAPI WTIC WJAR WOC WTAM KYW WHO WOW CKGW WSB WCAE WSM WLIT 6:30-6:45 'Who's Behind the Name?'' WEAF WFI WRC WCAE KOA KECA WIBO KGO KOMO WOC WSMB KGW KFSD WTAM WJDX WBEN WSAI WDAF KSD WHO KFSD WTAM WJDX KPRC 7:00-7:15 Political Situation in Washington WABC WGR WNAC WCAU WJAS WLBW WMAL WTAR WWNC WXYZ WSPD WDOD WTAQ KFH KRLD WACO KOH KFRC 7:00-7:30 Voter's Service -1:30 Voter 5 Jervice WEAF WJAR WCSH WFI WBEN WCAE WWJ WOC WHO WOW WOAI KOMO KGO WTAG KSTP WEBC KGW WSAI WTIC KOA KOA WITC
 7:30-7:45 Winegar's Barn Orchestra
 WDRC WORC WHP WJAS WLBW WDBJ
 WAIU WKBN WWNC WXYZ WDOD WREC

WLAC WBRC WDSU WISN WTAQ WGL KSCJ WMT KLRA KFH KDYL KFPY KFRC CFRB 7:30-8:00 Soconyland Sketches WEAF WEEI WJAR WTAG WCSH WGY WBEN 7:45-8:00 Dr. Scholl's Ramblers WJZ WENR KFAB WCKY KWK WEBC WRVA WREN WHAM KFSD WSMB WJDX WBAP WOAI KOA WFLA WSU KTHS KSL KGO WSUN WSM WPTF WJAX WFLA WSU WDAY KFYR KFI WMC KOMO KHO WSB WHAS KVOO WKY KTAR 8:00-8:30 Paul Whiteman's Paint Men WJZ WBZ WBZA WHAM WJR WLW KYW KWK WBZA WHAM KDKA WTMJ KYW KWK WREN WRVA KOMO KHQ WJAX KGW KFSD KTAR WGY KOA WIOD WHAS WSM WSB WJDX WSMB WOAI KFAB KECA WBAL WPTF WGAR WGY WMC KGO 8:00-8:30 Blackstone Plantation WEAF WCAE WTAM WWJ WSAI WIBG KSD WOC WHO WOW WDAF KOA WEEI WJAR WTAG WCSH WFI WRC WSAI WIBO WGY WBEN 8:15-8:30 Old Gold Character Readings WABC WFBL WHEC WGR WLBZ WDRC WNAC WORC WPG WCAU WJAS WLBW WCAO WTAR WDBJ WKRC WAIU WKBN WWNC WBT WEAN WHP WADC WGST WTOC WQAM WDBO WDAE WXYZ WSPD WDOD WREC WLAC WBRC WBCM WREC WLAC WCCO KSCJ WMT WDAY WNAX KOIL WRR KTRH KTSA KFPY KOIN WDSU WISN WJJD KMOX KMBC KLRA KFH KFJF KDYL KVI WIBW KLZ KHJ KFRC 8:30-9:00 Florsheim Frolic WEAF WTAG WFI WWJ WSAI WGN WRVA KVOO WJAX WRC WGY WCAE WDAF WEBC KSD WIOD WSUN WFLA WSMB WJDX KPRC WSM WMC WKY WSB WOAI KTHS KOA KSL WJAR WHAS WCSH WBAP WBEN KSTP WHAS WCSH WBAP WDEN ROLL 8:45-9:00 Round Towners with Irene Beasley WABC WFPL WHEC WGR WDRC WORC WHP WJAS WLBW WCAO WTAR WDBJ WLAC WDSU WISN WTAQ WOWO KSCJ WLAC WDSU WISN KMOX KLZ CFRB 9:00-9:30 Household Celebrities Program WJZ WBZ WGN KWK WBZA WBAL WHAM KDKA WREN WJR WGN KWK WREN WJR 9:00-9:30 McKesson Musical Magazine WEAF WEEI WJAR WTAG WCSH WFI WRC WBEN WTAM WSAI KSD WOW WTMJ WEBC WRVA WIOD WFLA WSUN WSM WMC WSB WSMB WJDX KPRC WYY WAA WST WCA WTAF ATAB WSUN WKY KOA KSL KGO KECA KTAR KOMO KHQ KFSD KGW KV00 WOAI KYW 9:00-9:30 Henry-George WABC WFBL WGR WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WISN WOWO WFBM WBBM WCCO KMOX KMBC KOIL KFH WBBM WCCU KMUA KMDC KOLL KFH 9:30-10:00 The Philos Symphony Concert WABC WFBL WHEC WKBW WEAN WDRC WAAC WCAU WJAS WMAL WCAO WTAR WADC WHK WKRC WGST WXYZ WSPD WDOD WREC WLAC WBRC WDSU WISN WOWO WFBM WMAQ WCCO WMT KMOX KMBC KOIL KFH KFJF KRLD KTRH KTSA CFRB 9:30-10:00 Death Valley Days WJZ WBAL WCKY KWK WBZ WHAM KDKA WENR WBZA WHAM KDKA WEINA 9:30-10:00 Happy Wonder Bakers WEAF WJAR WEEI WTAG WCSH WRC WGY WCAE WTAM WWJ WSAI WIBC KSD WHO WOW WTMJ KSTP WEB VOO WKY KOA KSL KGO KOM WIBO WEBC KOMO KECA KGW WOC WRVA

WDAF WBEN KPRC

WFI

10:00-10:15 WADC	Graybar	— Mr. a	nd Mrs. WKBW KMBC		
WADC	WCAO	WNAC	WKBW	WBBM WABC KMOX	WKRC WLBW
WHK KOIL	WXYZ WCAU	WOWO	WEAN	WABU	WFBL
WSPD	WMAL	WJAS WWNC	WEAN WGST	WBRC	KRLD
KLZ	KTRH	WFBM	WLRA	WCCO	WISN
WREC WDBJ	WTAR KTSA KFRC	WLAC KDYL	WDSU	KFJF	WHEC
WDBJ	KTSA	KDYL	KFH	WKBN	KHJ
KOIN	KFRC	KOL	KFPY		
10:00-11:00 WEAF	Lucky St WEEI		ce Orches WTAG	dra WOOT	117 131
WRC	WCAE	WJAR WWJ	WIAG	WCSH KSD	WFI WOC
WHO	WCAE WTMJ	WEBC	WSAI WRVA	WJAX	WIOD
WFLA WSMB	WSUN	WHAS	WSM	WJAX WMC	WSB
WSMB	WJDX	WOAI	WKY	KOA KTAR	KGO KFSD
KECA	KGW	KHQ	комо	KTAR	KFSD
WIBO	WDAF Blue Bibl	WTĂM	WAPI	WBEN	
10:15-10:30 WABC	WFBL	WGR	Jester WEAN WCAO	WDRC	WNAC
WCAU	WJAS WBT	WMAL WXYZ	WCAO	WDRC WADC WLAC	WHK
WKRC	WBT	WXYZ	WSPD	WLAC	WNAC WHK WBRC
WDSU	WOWO	WMAQ	WCCO	KMBC	KLRA
KOIL 10:30-10:45	KFH Clara, Lu	KRLD and Em	KTSA	KLZ	
WJZ	Clara, Lu WBAL	WHAM	KDKA	WJR	WLW
KWK	WREN	WGAR	WBZ	WBZA	WGN
10:30-11:00	Paramou	nt Publix	Playhou	se	
KWK 10:30-11:00 WABC WDRC	WFBL WNAC WCAO	WHEC WPG WTAR WWNC	WKBW	WLBZ	WEAN WJAS
WDRC WMAL	WNAU	WPG	WDBJ	WLDZ WHP WADC	WHK
WKRC	WKBN	WWNC	WBT	WGST	WTOO
WQAM	W DBO	WDAE	WXYZ	WBCM	WSPD
WDOD	WREC WFBM	WLAC WBBM	WXYZ WBRC	WDSU KSCJ	WSPD WISN WMT
wowo	WFBM	WBBM	WCCO	KSCJ	WMT
KMOX	KLRA	WDAY	WNAX KTRH	KOIL KTSA	WIBW
KFH	KFJF KOL	KRLD KFPY	KOIN	KISA KHJ	KLZ KFRC
KDYL KNX	CFRB	MLI I	ROIN	11110	nr no
11:00-11:15	Fletcher 1	Henderso	n and his	Orchest	ra
WABC	WEDI	WHEC	WDRC WTAR	WORC	WCAU
WJAS	WLBW	WCAO	WTAR	WDBJ	WADC
WKBN	WBRC	WDSU	WISN	WDOD WTAQ	WREC KSCJ
WLAC WMT	KMOX	KLRA	WBCM WISN WNAX	KFH	KRLD
KTSA	KDYL	WCAU WXYZ WDSU KLRA KFPY			
11:15-12:00	Cab Callo	way and	his Orch WHO	estra	
WEAF WTIC	WFI WBEN	WOC	WHO	WOW	KSD
w110	W DEN	WING			
	W	Vedne	esdav		
7.00 7.15 M			,,		
7:00-7:15 M WABC	WHEC	wney WLRZ	WEAN	WNAC	WORC
WCAIL	WHP	WLBZ WJAS WKRC	WEAN WLBW WAIU	WMAL	WORC WCAO WXYZ WDAY
WTAR	WDBJ	WKRC	WAIU	WWNC	WXYZ
WBCM	WDOD	WLAC	WBRC	KSCJ	WDAY
WIBW 7:05 7:15 C	KFJF ene Austi	KTRH	KOL	KFRC	
7:05-7:15 G WEAF					
	WREN	WCAE	woe '	KGO	WWJ
WENR	WEBC	WCAE WSMB	WOC [•] WHO	KGO WDAY	WWJ
WENR 7:15-7:30 Sci	WEBC ience Spe	WSMB aks	WHO	WDAY	
WENR 7:15-7:30 Sci WEAF	WEBC ience Spe KFI	WSMB aks KPO K	WHO GO W	KGO WDAY 'FI KO	
WENR 7:15-7:30 Sei WEAF KTAR	WEBC ience Spe KFI KFSD	WSMB aks KPO K WJAR	WHO GO W WENR	WDAY	
WENR 7:15-7:30 Sei WEAF KTAR	WEBC ience Spe KFI KFSD	WSMB aks KPO K WJAR Adams, A WHEC	WHO GO W WENR strologer	WDAY 'FI KO	мо
WENR 7:15-7:30 Sei WEAF KTAR	WEBC ience Spe KFI KFSD angeline WFBL WCAU	WSMB aks KPO K WJAR Adams, A WHEC	WHO GO W WENR strologer WGB	WDAY 'FI KO: WEAN WTAR	мо
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev WABC WNAC WNAC	WEBC ience Spe KFI KFSD angeline WFBL WCAU WCAU WKRC	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU	WHO GO W WENR strologer WGR WDBJ WWNC	WDAY 'FI KO WEAN WTAR WGST	MO WDRC WADC WXYZ
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev WABC WNAC WHK WSPD	WEBC ience Spe KFI KFSD angeline WFBL WCAU WKRC WDOD	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC	WHO GO W WENR strologer WGR WDBJ WWNC WLAC	WDAY FI KO WEAN WTAR WGST WBRC	MO WDRC WADC WXYZ WDSU
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev WABC WHAC WHK WSPD WISN	WEBC ience Spe KFI KFSD angeline WFBL WCAU WKRC WDOD WFBM	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC WGL	WHO GO W WENR strologer WGR WDBJ WWNC WLAC WCCO	WDAY FI KO WEAN WTAR WGST WBRC	MO WDRC WADC WXYZ WDSU KMBC
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev: WABC WNAC WHK WSPD WISN KLRA	WEBC ience Spe KFI KFSD angeline WFBL WCAU WKRC WDOD WFBM KOIL	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF	WHO GO W WENR strologer WDBJ WWDC WLAC WCCO WRR	WDAY FI KO WEAN WTAR WGST WBRC KMOX KTRH	MO WDRC WADC WXYZ WDSU
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev: WABC WNAC WHK WSPD WISN KLRA	WEBC ience Spe KFI KFSD angeline WFBL WCAU WKRC WDOD WFBM KOIL	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF	WHO GO W WENR strologer WGR WDBJ WWNC WLAC WCCO WRR th Mme.	WDAY FI KO WEAN WGST WBRC KMOX KTRH Alda	MO WADC WADC WXYZ WDSU KMBC CFRB
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev. WABC WHK WSPD WISN KLRA 7:30-7:45 Bo WEAF WTAM	WEBC ience Spe KFI KFSD angeline WFBL WCAU WCAU WKRC WDOD WFBM KOIL Secul Mon WLIT WWJ	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF nents wit WBEN WGY	WHO GO W WENR strologer WDBJ WWDC WLAC WCCO WRR	WDAY FI KO WEAN WTAR WGST WBRC KMOX KTRH	MO WDRC WADC WXYZ WDSU KMBC
WENR 7:15-7:30 Sei WEAF KTAR 7:30-7:45 Ev WNAC WHK WSPD WISN KLRA 7:30-7:45 Bo WEAF WTAM 7:45-8:00 "B	WEBC ience Spe KFI WFSD WFBL WCAU WFBL WKRC WDOD WFBM KOIL Socul Mon WLIT WWJ Gack in th	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF nents with WBEN WBEN WGY e News i	WHO GO W WENR strologer WGR WDBJ WWNC WLAC WCCO WRR th Mme. WCAE	WDAY FI KO WEAN WTAR WGST WBRC KMOX KTRH Alda WSAI gton"	MO WDRC WADC WXYZ WDSU KMBC CFRB WRC
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev. WABC WHAC WHAC WHAC WISN KLRA 7:30-7:45 Bo WEAF WTAM 7:45-8:00 "B WEAF	WEBC ience Spe KFI KFSD angeline WFBL WCAU WFBL WKAU WFBM KOIL Socul Mon WLIT WUJ Sack in th WRC	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF nents wi WBEN WGY e News i KOA	WHO GO W WENR strologor WGR WDBJ WWDC WLAC WCAC WCAE th Mme. WCAE	WDAY FI KO WEAN WTAR WBRC KMOX KTRH Alda WSAI gton" KGO	MO WDRC WADC WXYZ WDSU KMBC CFRB WRC WRC
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev. WABC WHAC WHAC WHAC WISN KLRA 7:30-7:45 Bo WEAF WTAM 7:45-8:00 "B WEAF	WEBC ience Spe KFI KFSD angeline WFBL WCAU WFBL WKAU WFBM KOIL Socul Mon WLIT WUJ Sack in th WRC	WSMB aks KFO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF wBEN WBEN WGY e News i KOA WBEN	WHO GO WENR strologer WGR WDBJ WWDG WUAC WCAC WCAE n Washin KECA WRVA	WDAY FI KO WEAN WTAR WGST WBRC KMOX KTRH Alda WSAI gton" KGO WKY	MO WDRC WADC WADC WSU KMBC CFRB WRC WRC WGY KOMO
WENR 7:15-7:30 Sei WEAF KTAR KTAR 7:30-7:45 Ev. WABC WHK WSPD WISN KLRA 7:30-7:45 Bo WEAF WTAM 7:45-8:00 "B WEAF WCAE KFSD	WEBC ience Spe KFI KFSD angeline , WFBL WCAU WCAU WCAU WCAU WCAU WCAU KOIL socul Mou WIJ WWJ ack in th WRC WFJC WKJC WSAI	WSMB aks KFO K WJAR Adams, A WHEC WCAO WAIU WREC WGL KFJF wBEN WBEN WGY e News i KOA WBEN	WHO GO W WENR strologor WGR WDBJ WWDC WLAC WCAC WCAE th Mme. WCAE	WDAY FI KO WEAN WTAR WBRC KMOX KTRH Alda WSAI gton" KGO	MO WDRC WADC WXYZ WDSU KMBC CFRB WRC WRC
WENR 7:15-7:30 Sci WEAF KTAR 7:30-7:45 Ev. WABC WHK WSPD WISN KLRA 7:30-7:45 E0 WISN KLRA 7:30-7:45 E0 WEAF WTAM 7:45-8:00 ''B WEAF WCAE KFSD WOW	WEBC ience Spe KFI KFSD angeline , WFBL WCAU WCAU WCAU WCAU WFBM KOIL scul Mos WIJ WWJ Gack in th WRC WFJC WSAI WDAF	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WRCO WGL KFJF nents wi WBEN WGY • News i KOA WBEN WBEN WBEN WIBO WAPI	WHO GO WENR strologer WGR WDBJ WWDG WUAC WCAC WCAE n Washin KECA WRVA	WDAY FI KO WEAN WTAR WGST WBRC KMOX KTRH Alda WSAI gton" KGO WKY	MO WDRC WADC WADC WSU KMBC CFRB WRC WRC WGY KOMO
WENR 7:15-7:30 Sei WEAF KTAR KTAR 7:30-7:45 Ev. WABC WHK WSPD WISN KLRA 7:30-7:45 Bo WEAF WTAM 7:45-8:00 "B WEAF WCAE KFSD	WEBC ience Spe KFI KFSD angeline , WFBL WCAU WCAU WCAU WCAU WFBM KOIL scul Mos WIJ WWJ Gack in th WRC WFJC WSAI WDAF	WSMB aks KPO K WJAR Adams, A WHEC WCAO WAIU WRCO WGL KFJF nents wi WBEN WGY • News i KOA WBEN WBEN WBEN WIBO WAPI	WHO GO WENR strologer WGR WDBJ WWDG WUAC WCAC WCAE n Washin KECA WRVA	WDAY FI KO WEAN WTAR WGST WBRC KMOX KTRH Alda WSAI gton" KGO WKY	MO WDRC WADC WADC WSU KMBC CFRB WRC WRC WGY KOMO

WADU	WLDD	W LD W	11 DAIN	MINAU	11 OAU	
WJAS	WLBW	WMAL	WCAO	WADC	WKRC	
WXYZ	WSPD	WREC	WISN	WFBM	WGL	
WMAQ	WCCO	KMOX	KOIL	WRHM		

8:00-8:15 Listerine Program—Bebby Jones WEAF WEEI WTIC WJAR WTAG WCSH WLIT WRC WBEN WTAM WWJ WSAI KSD WOC WHO WOW WPTF WIOD WSUN WHAS WSM WSB WFLA WSMB WJDX WFAA WOAI KOA 8:15-8:30 Radietron Varieties WTIC WBEN WEAF WJAR WTAG WRC WTAM WSAI WIBO WOW KSD WIOD WJDX WSM WSB WSMB WOAI KOA KHQ KOMO KFSD KTAR KECA KSL KGÖ KOA KV00 8:30-9:00 Mobiloil Concert WEAF WEEI WTAG WCSH WLIT WJAR WRC WSAI KSD WOW WTAM KOA KVOO WFAA WOAI WKY KPRC WTIC KSL WGY WGN WEBC WDAF WCAE WHO WOŪ WWJ Who -9:00 The Sunkis. WABC WFBL WGR WFAN WCAU WJAS WHK WKRC WXYZ WHK WKRC WXYZ WHK WKRC WXYZ WHC KOIL WBEN 8:30-9:00 The Sunkist Musical Cocktail WEAN WDRC WNAC WMAL WCAO WADC WSPD WOWO WJJD KLZ KDYL KOI KOIN KFRC К**Н**Ј 8:30-9:00 Canadian Pacific Musical Crusaders WJZ WGAR WBZ WBZA WHAM KDKA KYW KWK WCKY WREN KFAB CKGW 9:00-9:30 The First Nighter WJZ KDKA WLS WHAM WGAR WREN KDKA WBAL 9:00-9:30 Gold Medal Fast Freight WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WTAR WDBJ WKRC WCAH WXYZ WLAC WISN WOWO KSCJ KMOX KMBC WADC WHK WSPD KMOX KMBC KOIL KLZ KDVI WLAP WREC WOWO WFBM WMAQ WCCO KFH KFJF KRLD KFPY KOIN KFRC KMJ KHJ 9:00-9:30 Halsey, Stuart Program WEAF WEEI WJAR W WJAR WCAE WTAG WCSH WLIT WGY WRC WRVA CKGW WJAX KOA KSL KGO KGW KOMO KHQ WSAI KSD WOC WHO WOW WWJ WSMB KVOO KPRC WOAI KSTP WTMJ KYW WHAS WSM WMC WSB KFI WBEN WTAM 9:30-10:00 Arabesque — Desert Play WABC WFBL WDRC WORC WPG WJAS WLBW WMAL WDBJ WDOD WREC WDBJ WMT KMOX KLRA KLZ KDYL KFPY WWNC WXYZ WBCM WTAQ WISN WFBM WNAX KFJF KTSA CFRB 9:30-10:30 Palmolive Hour WEEI WTAG WSAI WCSH WEAF WTIC WJAR WCAE WSAI WSMB WTMJ ŴĜŶ WLIT WRC WGN KSD WOC WOW KSTP WMC WHAS WSM WDAF WHO WSB WJAX KOMO WOAI KOA KSL KGO KGW KHQ WFAA KPRC WBEN (KVOO of 10:00) WFAA KPRC WWJ WTAM KFI 10:00-10:15 Vitality Personalities WABC WADC WJAS W WNAC WKBW WBBM WBT WXYZ WOWO WEAN KMOX WFBL WKRC WOWO KMBC KOIL WCAU WSPD WMAI WGST WBRC WRR KTRH WISN WCAH WLAC WDSU KONN KFRC WDRC WFBM KFJF KLRA KDYL KHJ KOIN KTSA KFRC KOL KEPY 10:15-10:30 Peter Pan Forecasts WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WBBM KMOX KMBC KOIL KRLD CFRB 10:30-10:45 McAleer Polishers WKBW WLBZ WABC WFBL WORC WEAN WDRC WNAC WPG WCAU WJAS WMAL WCAO WTAR WADC WHK WXYZ WSPI WKRC WCAH WGST WSPD WREC WBT WLAC WOWO WFBM WMAQ WCCO WDSU WISN KMOX KMBC KTRH KTSA KSCJ WMT KLRA KOIL WRR KFJF WACO KLZ WOKO KDYL CFRB CKAC

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10:30-11:00 Coca Cola Program WEAF WEEI WTIC WJAR WTAG WCSH WLIT WRC WCAE WSAI WOC WEBC WLIT WRC WCAE WSAI STP WJAX WRVA KSTP ĸŸŴ KSD WKY WSMB KTHS KPRC WOAI KGO KECA KGW KHQ WIOD WSM KOA KSL KGO KOMO WJDX WGY KECA KGW KHQ WDAF WHAS WTAM KFSD WMC WSB WWJ WHO WOW WBEN WAPI 10:45-11:15 Columbia Concerts Program WABC WFBL WEAN WDRC WORC WPG WIP-WFAN WCAU WJAS WLBW WMAL WCAU WJAS WLBJ WADC WHK WKBN WBCM WDOD WREC WLAC WISN WTAQ WOWO WFBM KMOX KMBC KLRA WNAX KRLD KTSA KDYL KFPY WWNC WXYZ WBRC KSCJ WDSU WMT KFJF KFH CFRB WEAF WFLA WSUN KSD WTAM WOC WHO WRCA WSUN KSD WTAM WOC WHO WRC WEEI WJAR WCSH WGY WIBO WJAX WIOD WEAF WILL WHO WEAT WIDD WEAF WRC WEEI WJAR WEAF WRC WIDD 11:15-11:30 Vincent Lopez and His Orchestra WEAF WRC WCAE KSD WGY WLIT WOC WHO (WWJ WFLA WSUN off 11:15) (WAPI WDAF on 11:15) 11:30-12:00 Will Osborne and His Orchestra WABC WFBL WKBW WDRC WORC WPG WLBW WAAL WCAO WTAR WDBJ WADC WLBW WAAL WCAO WTAR WDBJ WADC WLBW WAAL WCAO WTAR WDBJ WADC WLBW WAAL WCAO WFBM WCCO KSCJ WTAO WFBM WCCO KSCJ Thursday 10:00-10:15 Ceresola Program WEAF WJAR WTAG WCSH WFI WGY WCAE WWJ WSAI KYW KSTP WRVA WTAM WBEN WOC WHO WRVA WIAM WIAM WEEN WICO WHO 3:30-4:00 Chicago Serenade WJZ KDKA WJR WREN KFAB KOA WLW WSM WMC WAPI WFLA WSUN CKGW 4:30-5:00 U. S. Army Band WJZ WLW KWK WSM KSTP WSMB WREN KFAB WJAX WSM K511 5:00-5:15 "Stories of the Old South WJZ WHAM WLW WENR KWK WREN WEAF WEEI WTIC WTAG WJAR WLIT WRC WGY WBEN WCAE WTAM WWJ KSD WOC WHO WSAI KYW WEAF WMC WIBO WWJ WHAS WOC WHO KOA WBEN WHO KOA WBEN WHO KOA WBEN WHO KOA WBEN WHOR C WHP WJAS WLBW WMAL WVZ WREC WGY WHAM KDKA KSL KGO 10:00-10:30 The Lutheran Hour WABC WFBL WKBW WEAN WDRC WNAC WABC WFBL WKBW WEAN WDRC WNAC WABC WFBL WKBW WEAN WDRC WAC WABC WFBL WKBW WEAN WDRC WAC WABC WFBL WKBW WEAN WDRC WAC WABC WFBL WKBW WAAL WVVZ WREC WBCM WCCO WMT KMOX KMBC WNAX KOIL KRLD KLZ KDYL KOL KFPY KOIN WHO KOA WBEN 7:30-7:45 St. Moritz Orchestra WEAN WDRC WHP WJAS WLBW WMAL WDBJ WKBN WBT WXYZ WREC WBCM WLAC WBRC WISN WFBM WGL KSCJ KMOX WDAY WNAX KOIL KFJF KTRH KVI KFPY KFRC KVI KFRY KFRC 7:30-8:00 Niagara-Hudson Program WEAF WGY WSYR WBEN WTIC 8:00-8:15 Dixie Spiritual Singers WJZ WBZ WBZA KFAB KWK WREN WBAL KDKA WGAR WJR WCKY WLS 8:00-9:00 Fleiaschmann Hour - Rudy Vallee WEAF WEEI WTAG WJAX WIOD WJDX WJAR WCSH WFI WRC WGY WCAE WHAS KTAR WFI WRO WDAF WWJ WHAS WSMB WEBC KOA WOAI WSM WOC wow WHO WMC WSB KSL KOMO WOAI KECA KSD WGN KPR KGO KHQ KSTP KGŴ KTHS WSAI WBAP WKY of 8:30) 8:15-8:30 Rin-Tin-Tin Thriller WBZ WBZA WBAL KDKA WGAR KWK WREN WLW KYW KFAB WJZ ŴĴŔ WILL KWR WREN WLEW KIW KFAD 8:30-8:45 Kaltenbort Edits the News WABC WFBL WGR WEAN WDRC WNAC WORC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WMAQ WCCO KMOX KMBC KOIL

8:30-9:00 Salada Salon Orchestra WJZ WBZ WBZA WBAL WHAM KDKA WJR WIBO KWK WREN KFAB WGAR 8:45-9:00 The Hamilton Watchman 9:00-9:15 Premier Salad Dressers 9:00-9:15 Premier Salad Dressers WABC WHEC WKBW WPG WJAS WLBW WMAL WCAO WTAR WWNC WXYZ WSPD WDOD WLAC WDSU WISN WTAQ KMBC KFH KRLD WACO KLZ KOH 9:00-9:30 Blackstone Plantation WJZ WBZ WBZA WBAL KDKA WCKY WJZ 9:00-9:30 Arco Birthday Party WEAF WEEI WJAR WTAG WCSH WFI CKGW WRC WGY WSB WSM WIO WIOD WJAX WRVA KYW WOC WOAI KOA WSTP WWJ WKY WBAP KSL KÝW WCAE WEBC WOW WOC WFJC WTMJ WMC KECA KOMO KHQ KGW WBEN KSD WDAF KSCJ WMT WNAX KOIL WIBW KFH KDYL KVI KOL KFPY KTSA KLZ KOIN KHJ KFRC 9:30-10:00 Jack Frost's Melody Moments WEAF WJAR WWJ WTAG WCSH WFI WRO WCAE WSAI WTAM WIBO WGY WBEN 9:30-10:30 Detective Story Magazine WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK WKRC WXYZ WSPD WOWO WBBM KMOX KMBC KOIL KMDC KOLL 9:30-10:00 Maxwell House Ensemble WJZ WBZ WBZA WBAL WLW WKY WTMJ WEBC WHAS WSM KPRC KOA WRVA WSB WBAP KWK WREN WIOD WJR WSMF KECA KGW KOMO KHQ WAPI WHAM KDKA KSL KGO 10:00-11:00 Lucky Strike Dance Orchestra WEAF WEEI WJAR WTAG WCSH WRC WGY WCAE WWJ WSAI KSD WOW WKY WOAI KOA WF wGY WOW WBEN KSD WOW WKY WOAI WTMJ WIOD WHAS WSM KYW KVOO WDAF WJAX WRVA WFLA WSUN WSB KTAR (KGO KGW KFI off 10:30) KOA WMC KSL WSMB KPRC WEBC WORN WIA WHAS KTAR (KGO KGU, WHO KILL WHAS KTAR 11:30-12:00 Cab Calloway and His Orchestra KOA WRVA WEAF WWJ WOW WFI KST WOC WAPI WDAF WTAM WOC WHO WIB WCAE - 20 12:00 Radio Roundup WFAA KFSD KOMO KHQ KTHS on 10:30) 12:00-12:30 Ozzie Nelson and His Orchestra WABC WFBL WKBW WNAC WFG WCAU WCAO WDBJ WADC WBT WXYZ WBCM WSPD WLAC WBRC WISN WTAQ WFBM

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WCC KFH	O KSCJ KFJF	WMT KLZ	кмох	KMBC	WNAX
		Frid	lay		
4:00-4:45	U. S. Mar	ine Band WGR	Orchest	ra	
WAE WCA	C WFBL	WGR	WDRC WTAR	WORC WDBJ WSPD	WPG
W CA	U WMAI	WCAO	WTAR	WDBJ	WHK
WAI WBR	U WMAI U WBT C WDSU C KMBC	WXYZ	WBCM	WSPD	WPG WHK WLAC
WM1	C KMBC	KOIL	WTAQ	WFBM	KSCJ
CER			KFJF	WACO	KLZ
4:15-5:15	Radio Guil	a			
WJZ	WBAL X KGO B KSTP	WHAM	WRC	CKGW	WPTF
WJA.	X KGO	KFI	KOMO WSM KWK	KFSD	KTAR
AFA	B KSTP	WEBC	WSM	WMC	WREN
KSL	KOA	KYW	KWK	WMC WJR	WREN WGAR
WLW WKY	WTMJ KPRC	WSB WRVA	WSMR	KVOO	WOAI
WKY	KPRC	WRVA	WJDX		
3:00-3:30 W/AD	Light Opera C WKBW	Gems			
WAB WLB	W WOLO		W DRC WAIU WREC KSCJ	WHP	WJAS WBT
wxy	W WCAO Z WBCM	WIAR WSPD WCCO	WAIU	WKBN WLAC KMOX	WBT
W X Y WISN	WGL	WCCO	WREC	WLAU	WBRC WDAY KTSA
KOIL	KFH	KFJF	KRLD	KTRH	WDAY
KLZ	CFRB			итип	N I SA
KOIL KLZ 5:30-5:45 WEA WGY	Benjamin N	Moore Tri WJAR WCAE	angle		
WEA WGY	F WTAG	WJAR	WCSH	WLIT WWJ WRVA	WRC WSAI WPTF
	WBEN	WCAE	WTAM	WWJ	WSAI
KSD KFYI	WDAF	NOLL		WRVA	WPTF
KPRC	WJAA	WIOD WKY	WFLA	WSUN	KVOO KYW
WDA'	17		WEEI	WTIC	KYW
WDA 6:00-6:30 W WAB(WTAI WISN KOH	1 Winogor's I	0			
WABO	WGR	WEAN	WIAS	WIDW	W.G.LO
WTAI	WADC	WWNC	WDOD	WIAC	WCAO WDSU
WISN	WTAQ	WBBM	KFH		KLZ
KOH	KFRC		*** **	MILLID .	1112
7:00-8:00 N WEAF WWJ	Major Bowe	es' Family	,		
WEAF	WJAR	WCSH .	WLIT WHO	WBEN '	WCAE
WWJ	WENR	WOC	WHO	KSTP	WCAE WHAS
WMC KGW	WSB	WSMB	KOA	KSTP KGO I	KECA
7.30 7.45 0	КОМО	KTAR			
7:30-7:45 F WGR	WOLT		es	Wate .	
WDBI	WCAU WADC WTOC I WDOD WTAQ	WJAS WKRC	WLBW WAIU	WCAO WKBN WDAE	WTAR WWNC WXYZ WDSU
WBT	WTOC	WOAM	WDBO	WABN	WWNC
WBT WBCN WISN	1 WDOD	WQAM WREC WOWO	WAIU WDBO WLAC WFBM KMBC	WDDDC 1	WAYZ -
WISN	WTAQ	WOWO	WERM	WBRC WBBM KLRA	VCCO
KSCJ	WMT	KMOX	KMBC	KLRA V	WCCO WNAX
KOIL KLZ	WIBW		KFJF	WRR I	TRH
KLZ	WMT WIBW KDYL	KOH	WMOV		
7:45-8:00 K	ate Smith	and Her	WNOX Swanee I WORC WXYZ WTAQ KFJF	Music	
WABC	WHEC	WGR	WORC	WHP V	VJAS VLAC VCCO
WLBW WBRC	WTAR WDSU	WDBJ WISN	WAYZ 1	VBCM V	VLAC
		KOIL	WIAQ VELE	WFBM V	VCCO
8:00-8:30 N		NULL	KEAE (CFRB V	VAAB
KSCJ 8:00-8:30 N WJZ WREN	WBZ	WRZA	WHAM Y	WIBO H	WK
WJZ WREN	KFAB	WJR	WHAM W WLW J	KDKA V	VGAR
8:00-9:00 C	ities Servic	e Concert	Orchestr	a	OAL
WREN 8:00-9:00 C WEAF WJAR KSTP	WEEI	WTIC	WLIT Y	WRC V KSD V	VCAE
WJAR KSTP WOAI WTAG	WCSH	WOW 1	KYW I	(SD V	VDAF
KSTP	W 1 1V1 J	WAI 1	WUC P	KOA V	VEBC
WUAI	KOMO	KGO 1 KECA V	KGW I WHO V	KHQ I	SL
WREN	CKGW WWJ	WFAA I	VHO V	VSAI V	VTAM
W TAG WBEN 8:30-9:00 T WABC WCAU	he Dutch N	WFAA 1	KPRC off	8:30)	
WABC	WFBL WJAS	lasters WGR V	VFAN V	vnpa u	N LO
WCAU	WJAS	WGR WMAL	WEAN W WCAO W	VDRC W	ZZDO
WXYZ	WSPD N	WBBM V	VCCO I	MOX K	VNAC VKRC MBC
KOIL				LINGA D	IDC
9:00-9:30 Cl WEAF	icquot Club	Eskimos			
WEAF	WEEI V	NTIC V	VJAR W	VTAG W	CSH
W LLT	WRC V	vow v	VCAE W	VSAI W	CSH IBO
KSD	WWJ V	VDAF V	VOC W	VHO W	GY
WBEN 9.00 9.30 1-					
9:00-9:30 In WJZ	WITTANS T	air VMC K	nv		
WREN	KPRC L	WIC K	DKA W	JAX W	KY
WREN WSMB	WIOD W	1975 V 1975 V	VBZ W VJR W	BZA K TMJ K	ĜŴ
WHAS	KYW V	VEBC U	UCKA M	IMJ K	STP
WSB	KPRC H WIOD W KYW W WAPI W	WMC K WK W VFAA W VEBC W VOAI K	CKY W	SM W	'RVA GO
KECA	KGW H WGAR	KOMO K	HQ K	FSD K	GO TAR
WJR.	WGAR			A	

9:00-10:00 True Story Hour WABC WFBL WKBW	WEAN	WDRC	TTN 4 C
WCAU WJAS WMAL	WCAO	WADC	WNAC WHK
WKRC WXYZ WSPD KMBC KOIL	wowo	WMAQ	KMOX
9:30-9:45 American Pro-Art WEAF WJAR WTAG	String Qu WCSH	artet	11-1 100
	wesh	WRC	WLIT
WGY WBEN WCAE 9:30-10:00 Armour Program WJZ WBZ WBZA VOTTO WDDG WBZA	WJR	ĸvw	WREN
KSTP WEBC WRVA WOAI KOA KSL	WMC	KYW WSB	WGAR
KGW KHO KOMO	KGO KDKA	WKY WJAX	WHAS WJDX
WIOD WTMJ WAPI WLW WSMB KFI	WHAM	KWK	WSM
9:45-10:00 "Saki Get Rich"	WOOM		
WGY WCAE KSD	WCSH WBEN	WRC WENR	WLIT
10:00-10:30 Armstrong Quaker WJZ KDKA WBZ		KVW	KWK
WHAM KPRC WJR	WTMJ	KYW WEBC	WHAS
KGW KOMO KHQ	KOA WMC	WSMB KFI	KSL WBAP
WCKY KTHS KSTP 10:00-10:30 Kodak Week-End	KVOO	WKY	" Dill
WEAF WJAR WCSH	WCAE		KSD
WSAI WRC WBEN WTAM WOW WENR	WLIT KGO		WGY KOMO
KHQ KOA KSL	KTAR .		KFI
WABC WFBL WKBW	WEAN	WDRC	WNAC
WCAU WJAS WMAL WKRC WGST WXYZ	WEAN WCAO WSPD	WDRC WADC WDSU	WNAC WHK WMAQ
WCCO KMOX KMBC 10:30-11:00 The March of Time	KOIL		W MIAQ
WABC WFBL WKBW		WDRC	WNAC
WCAU WJAS WMAL WKRC WXYZ WSPD	WCAO V	VADC 1	WHK KMOX
KMBC KOIL		a DDAT 1	AMOA
10:30-11:00 RKO Theatre of th WEAF WEEI WJAR	WTAG V	VLIT V	VGY
WCAE WWJ WSAI WRVA WJAX WIOD	WIBO I	(SD)	V DA F
WOC WJDX KGO	KTHS V	VOAI V	VSMB VKY
AIAN AFOD WUSH	KFI F WHO V		COMO CSL
	WBEN		1011
WJZ WHAM WGAR	WREN K	DKA W	BAL
WENR CFCF 11:00-11:15 Fletcher Henderson	and his (Irchestra	
WADC WHEC WDRU	wore w	VCAU V	VJAS
WLBW WCAO WTAR WXYZ WBCM WDOD	WLAC W		WNC VDSU
WISN WIAQ KSCJ	WMT K	LRA V	VNAX DYL
KFPY			DIL
WEAF WGY CKGW V	VTIC W		HO
(WRC WWJ off 11:15) (on 11:45) (KSD on 11:30) (WFJC WLIT off	KOA K	STP W VCFL on	DAF
11:30) (WFJC WLIT off	11:30)	AOLT OU	11:10-
11:30-12:00 Ben Bernie and his WABC WFBL WHEC W	Orchestra VEAN W	DRC W	NAC
WPG WIP-WFAN WTAR WDBJ WADC W	VLBW W	MAL W	CAO XYZ
WDOM WDOD WREC V	VLAC W	BRC W	DSU
KLRA WNAX KFH 34			MBC DYL
12:00-1:00 Phil Spitalny and His	Orchestra		
		MC K	PRC
Saturd	ay		
1:30-2:00 Savoy Plaza Orchestra WABC WHEC WLBZ W	VEAN W	CAU W	HP
WJAS WMAL WCAO W	TAR W	DBJ W	KRC
WLAC WBRC WIBW C	BCM W	SPD W	DOD
4:30-5:00 Spanish Serenade WABC WLBZ WEAN W		000 10	PAN
WHP WMAL WCAO W	TAR W	ORC W DBJ W	FAN KRC
WAIU WWNC WXYZ W WREC WLAC WBRC W	BCM WA	SPD W.	DOD CCO
7			000

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KSCJ WMT KMOX KMBC WDAY KOIL WIBW KFJF KRLD KTRH KTSA KLZ KOI, KFRC 0-5:30 Peter van Steeden and His Orchestra UKBK WBRC WDSU WISN WTA 5:00-5:30 Peter van Steeden and His Orchestra WJZ WHAM WLW WJDX WBZ WBZA WGAR 6:00-6:30 Ted Husing's Sportslants WABC WFBL WFAN WHP WLBW WTAR WDBJ WADC WHK WAIU WBT WBCM WREC WLAC WBC WISN WOWO WBBM WCCO KSCJ WDAY KOIL WBW KFH KFJF KRLD KTRH KTSA KLZ KVI KOL KFPY KHJ KFRC CFRB KOL KITI KIIS KIKO OFKIS 6:00-6:15 Highroad of Adventure WEAF WTIC WRC WTAM WIBO KSD WJDX KOA KGO KGW KECA KOMO WABC WLBZ WEAN WNAC W WGY KTAR. 6:30-6:45 Smith Ballew and His Orchestra WBZ WBZA WRC KFAB KWK WJZ 7:00-7:15 Gene Austin, songs WEAF WFI WCAE WWJ WSB KOA KGO WCSH WENR WDAY WTIC KFYR

 KGO
 WCSH
 WENR
 WDAY
 WTC
 KF IR

 7:00-7:15
 Morton Downey with Nat Brusiloff
 WJAS
 WJAS
 WJAS

 WABC
 WHER
 WDRC
 WHP
 WJAS
 WJZ
 WBZ
 WBZA
 WBAL
 KDKA
 WHA

 WAIU
 WKBN
 WWNC
 WBCM
 WSD
 WDOD
 CFCF
 CKGW
 CFCF
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 KRLD
 KFPY
 KFRC
 WEAF
 WEEI
 WJAR
 WTAG
 WCSH
 WFI

 WEAF
 WEAF
 WEAF
 WEAF
 WEAF
 WAAH
 WTAM
 WUJAN

 7:15-7:30 Laws That Safeguard Society WEAF WJAR WTAG WCSH WFI WGY WBEN WWJ WOC WHO WOW WEBC WOAI KOA KGO KECA KOMO KHQ KTAR WJDX WEEI RTAR WDDA WEEL 7:15-7:30 Armand Vecsey and his Orchestra WHEC WGR WEAN WNAC WJAS WMAL WCAO WTAR WADC WHK WSPD WDDU WDSU WTAQ KFH WACO KOH KFRC WLBW WWNC KRLD 7:30-7:45 Rose of the Goldbergs WJZ WHAM KWK WREN WIBO WSB WJDX WSMB WAPI WGAR WIDXWAREWIDSWIDWIDXWSMBWAPIWAPIWAPIWEAPWTICWJARWTAGWCSHWEAPWTICWJARWTAGWCSHWRCWBENWCCWSBWAPIWIDKWHOWDAFCFCFCKGWWENRWCCWHOWDAFCFCFCKGWWENRWCCWHOWDAFCFCFCKGWWENRWCCWHOWDAFCFCFCKGWWENRWCCWHOWDAFCFCFCKGWWENRWCCWSBWAPIWJDXWSMBKTHSWOAIWKYWEEIWTAMWTMJKSTP(WWJ)on 7:30-7:45)(WHAS off 7:45)(WBAP on 7:45)WABCWKBWWGRWORCWCAUWHAMWABCWKBWWGRWORCWCAUWABDWABCWKBWWARLKHOLKTHWABDWABDWKBNWBTWXYZWBCHWABDWABDWKBNWBTWXYZWBCHWABDWAADWKBNWBTWXYZWBCHWABDWHADKFRCKFRCKFRCWFBMWMAQKSCJKMOXWDAYWABCWFBMWMAQKSCJKMOXWDAYWABCWFPYKHJKFFRCWABCWFBLWHALWABCWFBMWHAQKSCJKMOXWDAYWAACWABCWFBMWMAQKSCJ<t KFPY KHJ KFRC 8:15-8:30 Radiotron Varieties WEAF WEEI WJAR WGY WBEN WCAE WTAG WCSH WRC WTAM WWJ WSAI WSAI WHO WOW WDAF WIOD WFLA WSUN WSMB WJDX KPRC WDAF WIBO KSD WOC WTMJ WRVA WJAX WSM WMC WSB KSL WKY KGO KGW WOAI KOA KOMO KHQ KTAR KFSD 8:30-9:00 The Silver Flute WEAF WEEI WTAG WCSH WRC WGY WCAE WWJ WSAI KSD WFI WDAF WIOD 8:30-9:00 Fuller Man WBZ WBZA WBAL WHAM KDKA KWK WREN KOA CKGW WHAS KGO KECA KGW KOMO KFAB WIBO WKY WTMJ WMC WEBC WAPI WSMB WLW WJDX KSTP WJZ WJR KPRC KGO KHQ WSB WSB WAPI WSMB WLW WJDA KSIF 8:45-9:00 Mary Charles – Nat Brusiloff's Orchestra WABC WDRC WORC WCAU WHP WJAS WLEW WCAO WTAR WDBJ WADC WAIU WKBN WWNC WYZ WBCM WSPD WDOD WREC WLAC WDSU WISN WTAQ WOWO WFBM KSCJ WMT KMOX KMBC KLRA WAAX KFH KRLD KLZ KFPY KFRC WNAX KFH CFRB

WJAS WAIU WBCM WTAQ WGL KMBC KFH KSCJ WMT KEJE CERB WHP 9:00-10:00 General Electric Hour WEAF WEEI WJAR WTAG WCSH WFI WGY WBEN WCAE WTAM WWJ WRC WIBO WSAI KSD WOC WOW WDAF WEBC WRVA WJAX WTMJ WKY KSTP WHAS WMC WSB WAPI WSMB WBAP WOAI KOA KOMO KHQ KPRC KĞO KSL KFI KFSD KTAR WABC WLBZ WEAN WNAC WORC WPG WARW WLBZ WEAN WNAC WORC WPG WFAN WHP WJAS WLBW WMAL WTAR WDBJ WKRC WWNC WXYZ WBCM WSPD WDOD WREC WLAC WBRC WFBM WCCO KSCJ WMT KMBC WDAY WNAX KOL WIBW KFH KFJF KTRH KTSA KLZ WIDW KFH KOL KFRC 10:00-10:30 Cuckoo WJZ WBZ KFRC WJZ WBZ WBZA WBAL KDKA WHAM WGAR WLW WIBO KWK WREN WJR CFCF CKGW WGY WGN WOAL WGN KSD WHO WOO WOW WDAF WTMJ KSTP WEBC WRVA WJAX WIOD WFLA WSUN WHAS WMC WSB WSMB WJDX KVOO WFAA KPRC WOAI WKY KOA KSL KGO KFI KOW WSMB WJDX KVOO WFAA KPRC WOAI WKY KOA KSL KGO KFI KGW KOMO KHQ KTAR KFSD 10:00-10:45 Hank Simmons' Show Boat WABC WHEC WLBZ WEAN WNAC WORC WPG WFAN WHP WJAS WLBW WMAL WCAO WTAR WDBJ WKRC WNC WXYZ WBCM WSPD WDOD WLAC WBRC WFBM WMAQ WCCO KSCJ WMT KMOX KMBC WDAY WNAX KOIL, WIBW KFH KFJF KRLD KTRH KTSA KLZ KOL KFRC CFRB KFRG 11:00-11:15 Bert Lown and His Biltmore Orchestra WABC WFBL WHEC WKBW WDRC WORC WCAU WHP WLBW WMAL WTAR WDBJ WADC WHK WBT WXYZ WBCM WSPD WARD WHP WEBW WMAL WIAR WEP WCAU WHP WEBW WSYZ WECM WSPD WLAC WERC WDSU WISN WTAQ WFBM WLAC WERC WDSU WISN WTAQ WFBM WLAC WGL WOOL KFH WACO KLZ KFJF CFRB WAAB WAAD 11:00-11:15 Troubadour of the Moon WEAF WFI WCAE WWJ WSAI WOC WHO WOW 11:5-11:45 Hal Kemp and His Orchestra WEAF WTIC WFI WRC WWJ WGY KSD WOC WHO WEEI WCAE WDAY CFCF WTAM WOW WDAF 11:30-12:00 Will Osborne and His Orchestra 30-12:00 Will Osborne and His Orchestra WABC WFBL WHEC WKBW WDRC WORC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WADC WHK WBT WXYZ WBCM WSPD WLAC WBRC EDSU WISN WTAQ WFBM WGL WCCO KSCJ WMT KMOX KMBC WNAX KFH KFJF KLZ CFRB 1145-12:00 Little Jack Little WEAF WFI WCAE WTAM KSD WHO WDAF WFIA WSUN WSB WGY WIBO WOW KPRC WIOD woc KOA 12:00-1:00 Jack Albin and His Orchestra WEAF WTIC WRC WBEN WTAM KSD WMC WSB KPRC KOA WGY WOW

NOTICE OF COPYRIGHT

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KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verification 25c; no stamp; é Sends stamp but does not verify otherwise; ‡ Does not verify; § Did not reply. § Verification 25c; reply card 10c, Third column shows night power in watts. Fourth column symbols: D, daytime only; S, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd (requen-cies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. Dn —This daylight station may use evening hours under certain conditions. Dashes (___) have no meaning.

540	kilo	cycle	es	555.6 meters
CKX XEY	+	500 101	547	Brandon, Manitob Merida, Mex.

скх	- t
XEY	

Brandon, Manitoba Merida, Mex.

Beaumont, Texas

San Francisco, Cal. Philadelphia, Pa. Chicago, Ill. Philadelphia, Pa.

Denver, Colo.

Knoxville, Tenn Chicago, Ill. Miami, Fla.

Wichita Falls, Texas

Los Angeles, Cal. Seattle, Wash.

Columbus, Ohio

Youngstown, Ohio Syracuse, N. Y. New York City Yankton, S. D.

550 kilocycles 545.1 meters

KFDY KFUO KFYR KOAC KSD WGR WKRC	†• † † † * *	500 500 1000 1000 500 1000	$ \begin{array}{c} 1+\\ 2+\\ 1+N\\ \hline 2N\\ C\\ C\\ \end{array} $	Brookings, S. D. St. Louis, Mo. Bismarck, N. D. Corvallis, Ore. St. Louis, Mo. Buffalo, N. Y. Cincinnati Obio
WKRC	1	1000	С	Cincinnati, Ohio

560 kilocycles 535.4 meters

KFDM	*	500	X+
KLZ		1000	C
KTAB	*	1000	
WFI		500	1N
WIBO	*	1000	3+N
WLIT	‡	500	IN
WNOX	÷.	1000	X+C
WPCC	*	500	35
WOAM		1000	C

570 kilocycles 526.0 meters

*	250	+
*	500	
*	500	
+	750	1
	500	1C
	250	2
	500	3
	1000	С
t	500	3
	250	2
	1000	C
	* * * *	* 500 * 500 † 750 • 500 • 250 • 500 • 1000 † 500 † 250

580 kilocycles 516.9 meters

CFCL		500	38
CHMA		250	4 S
CKCL	*	500	3
CKNC		500	3
CKUA	t	500	4
KGFX		200	D
KSAC	ŧ	500	2+
WIBW	÷.	1000	2 ÷ C
WOBU		250	1
WSAZ		250	1
WTAG	•	250	N

Asheville, N. C.

New York City Syracuse, N. Y.

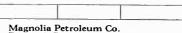
2	Toronto, Ont. Edmonton, Alta. Toronto, Ont. Edmonton, Alta. Pierre, S. D. Manhattan, Kans. Topeka, Kansas Charleston, W. Va. Huntington, W. Va. Worcester, Mass.
	WOICESLEI, Mass.

Manitoba Telephone System Partido Socialista Surt

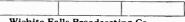


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S. D. State College Concordia Theological Seminary Meyer Broadcasting Co. State Agricultural College Pulitzer Publishing Co. Buffalo Broadcasting Co. WKRC Incorporated



Reynolds Radio Co., Inc. Associated Broadcasters Strawbridge & Clothier Nelson Bros. Bond & Mortgage Co. Lit Brothers Sterchi Bros. North Shore Congregational Church Miami Broadcasting Co.



Wichita Falls Broadcasting Co. KMTR Radio Corp. American Radio Tel. Co. Ohio State University WKBN Broadcasting Corp. Clive B. Meredith Knickerbocker Broadcasting Co., Inc. House of Gurney, Inc. Dept. of Plants and Structures Clive B. Meredith Citizens Broadcasting Co., Inc.

1
Dominion Battery Co. Christian and Missionary Alliance The Dominion Battery Co. Canadian National Carbon Co., Ltd. University of Alberta Dana McNeil State Agricultural College Topeka Broadcasting Assn., Inc. WOBU, Inc. WSAZ, Inc. Telegram Publishing Co.

6 5 19

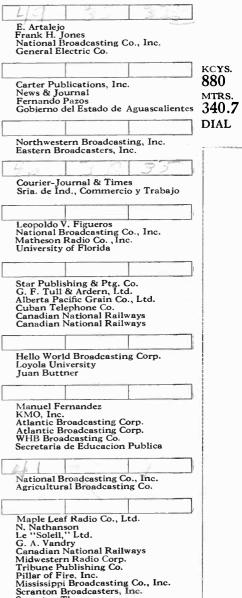
590 kilocycles 508.2 meters KCYS. Columbus Commercial & Radio Co. 588 1400 Havana, Cuba CMW 670 Havana, Cuba Spokane, Wash. Lincoln, Nebr. Boston, Mass. Berrien Springs, Mich. Omaha, Nebr. Mexico City +NLouis Wasmer, Inc. KHQ WCAJ WEEI 1000 Nebraska Wesleyan University Edison Elec. Illuminating Co. ī 500 1 MTRS. t 1000 Ñ 447.5 DY IN WKZO, Inc. 1000 WKZO WOW Woodmen of the World Gonzales Zamacona y Cia. ÷ 1000 DIAL XEZ 500 588 600 kilocycles 499.7 meters 500 Ottawa, Ont Canadian National Railways CNRO 3 , +N 2+ C San Diego, Cal. Storrs, Conn. Airfan Radio Corp 500 KFSD WCAC Conn. Agricultural College 250 1 Monumental Radio, Inc. WCAO WICC WMT Baltimore, Md. 250 Bridgeport Broadcasting Station, Inc. Waterloo Broadcasting Co. Bridgeport, Conn. Waterloo, lowa Memphis, Tenn. 250 $\overline{2}D$ 500 C WREC d, тс WREC, Inc. 500 491.5 meters 610 kilocycles San Francisco, Cal. Kansas City, Mo. Philadelphia, Pa. Philadelphia, Pa. Don Lee, Inc. Kansas City Star Co. KFRC 1000 С WDAF 1000 N 2C Keystone Broadcasting Co., Inc. 500 WFAN WIP Gimbel Bros. Co. 500 2C . Cleveland Radio Broadcasting Corp. WJAY 500 Cleveland, Ohio t D 483.6 meters 620 kilocycles Oregonian Publishing Co. KGW KTAR WFLA WLBZ 1000 Portland, Ore. +NKTAR Broadcasting Co. $\frac{1}{1+N}$ Phoenix, Arizona Clearwater, Fla. 500 Chamber of Commerce . 1000 Maine Broadcasting Co., Inc. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. 500 . Chamber of Commerce WSUN . 1000 $\bar{1}+N$ +N Milwaukee Journal WTMJ 1000 475.9 meters 630 kilocycles Victoria Broadcasting Association 500 Victoria, B. C CFCT Winnipeg Grain Exchange Canadian National Railways Stephens College Evansville on the Air, Inc. - - -CJGX CNRA KFRU WGBF Yorkton, Sask 500 ---Moncton, N. B. 500 Columbia, Mo. Evansville, Ind. ĩ 500 500 1 1 +cM. A. Leese 250 Washington, D. C WMAL Jefferson City, Mo. State Marketing Bureau 1 500 wos Monterrey, Mex. Mexico Music Co., S. A. XĔŤ 500 640 kilocycles 468.5 meters 645 645 NX C Dn E. Fontaine CHRC 100 Quebec, Que CMHJ KFI WAIU Cienfuegos, Cuba Arturo Hernandez 40 Earle C. Anthony, Inc Los Angeles, Cal. Columbus, Ohio 5000 American Insurance Union 1 500 State College of Agriculture Secretaria de Guerra y Marina WOI ٠ 5000 Ď Ames, Iowa 638 Mexico City XFG 2000 650 kilocycles 461.3 meters Queen City Broadcasting Co. National Life & Accident Ins. Co. Seattle, Wash. Nashville, Tenn. KPCB WSM 100 Dn N 5000 454.3 meters 660 kilocycles Chilliwack Brdcstg. Co., Ltd. Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. CHWK 100 Chilliwack, B. C CJRM CJRW CMCO WAAW 500 665 Moose Jaw, Sask. t Fleming, Sask. Havana, Cuba Omaha, Neb. New York City 500 665 - -J. L. Stowers 225 ÷ 500 Ď Omaha Grain Exchange National Broadcasting Co., Inc. WEAF 50000 N Travelers Broadcasting Service, Inc. Hartford, Conn. 5000 N WTIC 670 kilocycles 447.5 meters WMAQ, Inc WMAQ 5000 C Chicago, Ill. Armida y Cia. 674 Mexico City 101 XER

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690 1-:11		Into DIAL NON	IDERS
680 kilocycles			
KFEQ * 2500 D KPO † 5000 N	St. Joseph, Mo.	Scroggin & Co Hale Bros. & T	., Bank
WPTF * 1000 N	San Francisco, Cal. Dn Raleigh, N. C.	Hale Bros. & 1 Durham Life I	The Chronicle
8WMC 500 68	- Veracruz, Mex.	Manuel Angel	Fernandar & Cia
	- ot: joinis, N. P.	Wesley United	Church
690 kilocycles	434.5 meters		
CFAC - 500 1 CHCA * 500 1	Calgary, Alta.	The Calgary H	erald
CJCJ + 500 1	Calgary, Alta. Calgary, Alta.	Ine Western F	armer shing Co., Ltd.
CNRC 500 1	I loronto, Ont.	Goodernam N	Worte I +d
CPRY 5000 2	Calgary, Alta. Toronto, Ont.	Canadian Nati Canadian Paci	onal Railways
VAS † 1000 VAS † 10000 685	- Arlington Va		
700 1 1 1		Canadian Mar	coni Co.
700 kilocycles	428.3 meters	500 4	1 . 1./2)
WLW * 50000 N	Cincinnati, Ohio	Crosley Radio	Corp.
710 kilocycles	422.3 meters		
KMPC * 500 Dn	Los Angeles, Cal.	R. S. MacMilla	
WOR * 5000 XEN † 1000 711	Newark, N. I	Bamberger Bro	adcasting Socias Inc.
	Mexico City	Cia. Civil de In	versiones
720 kilocycles	416.4 meters	50 11	
WGN † 25000 N	Chicago, Ill.	Chicago Tribun	
730 kilocycles	110 7		
CHIS 50	410.7 meters		
CHLS = 50 1 CHYC = 5000 2S	Vancouver, B. C. Montreal, Que.	W. G. Hassell	
CKAC + 5000 2C		Northern Electr La Presse Public	
CKFC † 50 1	Vancouver, B. C. Vancouver, B. C. Vancouver, B. C. Vancouver, B. C. Havena Cuba	Vancouver Daily United Church	Province
CKMO 50 1 CKWX † 100 1	Vancouver, B. C.	Sprott-Shaw Ra	of Canada Idio Co.
CMK 3150		Sprott-Shaw Ra A. Holstead & V	m. Hanlon
CNRM * 5000 2 XEM † 500	Montreal, Oue.	Canadian Natio	sting Co., Hotel Plaza nal Railways
	Tampico, Mex.	Herbert H. Den	ny y Cia.
740 kilocycles	405.2 meters		
KMMJ * 1000 Dn WSB 5000 N	Clay Center, Neb.	The M. M. John	son Co
	Atlanta, Ga.	Atlanta Journal	Co.
750 kilocycles	399.8 meters	503	11 20
TIC 50 WJR † 5000 N	San Jose, Costa Rica Detroit, Mich.		12 20
		WJR, The Good	will Station, Inc.
	394.5 meters		
KVI * 1000 C Dr WBAL * 1000 N	n Tacoma, Wash.	Puget Sound Bro	adcasting Co., Inc.
WEW * 1000 D	Baltimore, Md. St. Louis, Mo.	Consolidated Gas St. Louis Univer	Elec & Power Co
WJZ † 30000 N	New York City	National Broadca	isting Co., Inc.
770 kilocycles	389.4 meters		
KFAB * 5000 1N	Lincoln, Nebr.	KEAD	
WBBM • 25000 1C	Chicago, Ill.	KFAB Broadcast The Atlas Co., Ir	ing Co.
10	Chicago, Ill.	The Atlas Co., Ir	nc.
780 kilocycles	384.4 meters		
CKY 5000 3	Winnipeg, Manitoba	Manitoba Teleph	one Sustan
CNRW 5000 3	Matanzas, Cuba Winnipeg, Manitoba	ADELLO AIVALEZ	
KELW * 500 2 KTM • 500 2	burbank, Cal.	Canadian Nation Union Bank & Ti	mot Co
KTM • 500 2+ WEAN • 250 +C	Los Angeles, Cal. Providence, R. I.	FICKWICK Broadce	sting Corn
10		Snepard Broadca	sting Service, Inc.
	E 90 7		

		1141		I THEQUENCIES !	
WISJ WMC WPOR WTAR XEW	*) ** *	250 500 500 500 500	+ +N 1 1C	Madison, Wis. Memphis, Tenn. Norfolk, Va. Norfolk, Va. Mexico City	
790 l	cilo	ocycle	es 3	79.5 meters	
CMBS CMHC KGO WGY	ŧ	150 500 7500 50000	ZZ	Havana, Cuba Tuinucu, Cuba San Francisco, Cal. Schenectady, N. Y.	
800 1	cilo	ocycle	es 3	74.8 meters	
WBAP WFAA XEU XFC	‡ ₽ 	10000 50000 101 350	1XN 1N 805	Fort Worth, Texas Dallas, Texas Veracruz, Mex. Aguascalientes, Mex.	
810 k	cilo	ocycle	es 3	70.2 meters	
WCCO WPCH	*	7500 500	C D	Minneapolis, Minn. New York City	
	-:1-				
OLU P WHAS	(1)(†	0cycle	.S J	65.6 meters Louisville, Ky.	
XFI		1000	818	Mexico City	
830 1	cilc	ocycle	es 3	61.2 meters	
CMGA	1.27	100 12500	834 N	Colon, Cuba	
CMGA KOA WHDH	† 	1000	D	Colon, Cuba Denver, Colo. Boston, Mass.	
WRUF	*	5000	Dn	Gainesville, Fla.	
840 1	cilo	ocycle	es 3	56.9 meters	
CFCA	t	500 1000	1	Toronto, Ont. Red Deer, Alta.	
CKLC	Ţ	1000 500	2	Red Deer, Alta. Red Deer, Alta. Havana, Cuba	
CFCA CHCT CKLC CMC CNRD CNRT	ţ	1000 500	2	Red Deer, Alta. Toronto, Ont.	
CINKI			_		_
	(11C	cycle		52.7 meters	
KWKH WWL	*	10000 5000	1	Shreveport, La. New Orleans, La.	
XEJ	*	101	857	Juarez, Mex.	
860 k	cilc	ocycle		48.6 meters	
CM JE KMO	÷.	20 500	856 + Dn	Camaguey, Cuba Tacoma, Wash. New York City New York City	
WABC WBOQ	+	5000 5000	+ Dn XC	New York City New York City	
WHB	¥.	500	D	Kansas City, Mo. Mexico City, Mex.	
XFX		500			
870 k		cycle 50000	es j	44.6 meters	4
WENR WLS	Ŧ	50000	1N 1 X N	Chicago, Ill. Chicago, 111.	
880 k	cilc.	ocycle	es 3	40.7 meters	
CHML.	*	50	4	Hamilton, Ont.	L
CJCB CKCI CKCV CNRQ	:	50 22.5	3 3	Quebec, Que.	
CKCV	+	50 50	3	Sydney, N. S. Quebec, Que. Quebec, Que. Greeley, Colo. Oakland, Cal. Denver, Colo. Meridian. Miss.	
KFKA	+ *	500 500	2+	Greeley, Colo. Oakland, Cal.	
KPOF WCOC WGBI	*	500 500	2+	Denver, Colo. Meridian, Miss.	
WGBI	*	250 250	1	Meridian, Miss. Scranton, Pa. Scranton, Pa.	
WOAN WSUI	•	500		Iowa City, Iowa	

Wisconsin State Journal Bdcsg. Co. Memphis Commercial-Appeal, Inc. WTAR Radio Corp. WTAR Radio Corp. Mexico Music Co.



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Scranton Times University of Iowa

890 kilocycles 336.9 meters

CFBO CKCO CKPR CMCF CMX KFNF KGJF KUSD WGST WILL WIAR	* + - + + + + + + + + + + + + + + +	500 100 50 250 500 250 250 250 250 250 250	2+ 2+ 2+ 2+ 2+ 2+ 2+	St. John, N. B. Ottawa, Ont. Port Arthur, Ont. Havana, Cuba Shenandoah, Iowa Little Rock, Ark. Vermillion, S. D. Atlanta, Ga. Urbana, III. Providence R I
		250	+N	Providence, R. I.
WKAQ	*	500		San Juan, P. R.
WMAZ	1	250	1+	Macon, Ga.
WMMN	*	250	+	Fairmont, W. Va.
XES	\$	500		Tampico, Mexico

900 kilocycles

KGBU	‡	500	
KHJ	÷	1000	C
KSĚI	*	250	_
WBEN		1000	N
WJAX	*	1000	N
WKY	*	1000	N
WLBL	*	2000	D

910 kilocvcles

		•	
CFQC		500	1
CHNS	*	500	3
CJGC	*	5000	2
CNRH	- 10	500	3
CNRL	*	500	2
CNRS		500	1

HHK		1000	
KFEL	+	500	1
KFXF	*	500	1
KOMO	+	1000	Ň
KPRC	÷	1000	+N
WAAF		500	Ď
WBSO		500	D
WWJ	+	1000	N
XFF		250	915

930 kilocycles 322.4 meters

CJCA CFRC KFWI KGBZ KMA KROW WBRC WDBJ WIBC	* *	500 500 500 500 500 500 250 250	4 1 2+ 1+X +C +C	Edmonton, Alta. Kingston, Ont. San Francisco, Cal. York, Nebr. Shenandoah, Iowa Oakland, Cal. Birmingham, Ala. Roanoke, Va.
WIBĞ	•	50	s	Elkins Park, Pa.

940 kilocycles 319.0 meters

+	1000		Honolulu, Hawaii
- 10	1000	C	Portland, Ore.
	300	Ď	Jersey City, N. J.
*	1000	N	Portland, Maine
*	1000	N	Fargo, N. D.
	1000		Hopkinsville, Ky.
	750	D+	Madison, Wis.
	5000		Mexico City
	•	* 1000 * 1000 * 1000 * 1000 * 1000	* 1000 C - 300 D * 1000 N * 1000 N * 1000 N * 1000 750 D+

950 kilocycles 315.6 meters

KFWB KGHL KMBC	*	1000 1000 1000	C	Hollywood, Cal. Billings, Mont. Kansas City, Mo.
WRC	+	500	Ň	Washington, D. C.

Los Angeles, Cal. Pocatello, Idaho Buffalo, N. Y. Jacksonville, Fla Oklahoma City Stevens Point, Wis.

333.1 meters Ketchikan, Alaska

329.6 meters

Saskatoon, Sask.
Halifax, N. S.
London, Ont.
Halifax, N. S.
London, Ont.
Saskatoon, Sask.

920 kilocycles 325.9 meters

Port au Prince, Ha Denver, Colo.	iti
Denver, Colo.	
Seattle, Wash. Houston, Texas	
Chicago, Ill. Needham, Mass.	
Detroit, Mich.	
Chihuahua, Mex.	

The Electric Shop, Ltd. Halifax Herald, Ltd. Free Press Printing Co., Ltd. Canadian National Railways Canadian National Railways Canadian National Railways

C. A. Munro, Ltd. Dr. G. M. Geldert Dougall Motor Car Corp. Raoul Karman Francisco Lavin Henry Field Co.

Church of the Nazarene University of South Dakota Georgia School of Technology University of Illinois The Outlet Co. Radio Corp. of Porto Rico Junior Chamber of Commerce Holt-Rowe Broadcasting Co. Difusora Portena XES

Alaska Radio & Service Co.

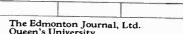
Buffalo Evening News

City of Jacksonville WKY Radiophone Co. Wisconsin Dept. of Markets

KSEI Broadcasting Association, Inc.

Don Lee, Inc.

Republic of Haiti Eugene P. O'Fallon, Inc. Colorado Radio Corp. Fisher's Blend Station, Inc. Houston Printing Co. Drovers Journal Publishing Co. Babson Statistical Organization, Inc. The Detroit, News Gobierno del Estado de Chihuahua



Queen's University Radio Entertainments, Inc. Dr. George R. Miller May Seed & Nursery Co. Educational Broadcasting Corp. Birmingham Broadcasting Corp. Birmingham Broadcasting Co., Inc. Richardson-Wayland Elec. Corp. St. Pauls P. E. Church

Marion A. Mulrony KOIN, Inc. Bremer Broadcasting Corp. WDAY, Inc. University of Wisconsin National Revoluncionario Party

			-
Warner Br Northwest Midland B National B	rn Auto oadcastii	ag Co., Inc.	, Inc.

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960 kilocycles 312.3 meters	21 18 18
CFCY * 250 1 Charlottetown, P. E. : CFRB * 5000 2C Toronto, Ont. CHCK - 100 1 Charlottetown, P. E. : CHCK - 100 1 Charlottetown, P. E. : CHWC * 500 3 Regina, Sask. CBBR - 500 3 Regina, Sask. CKCK † 500 3 Regina, Sask. CMBC - 150 965 Havana, Cuba CMBD - 150 965 Havana, Cuba CNRR - 500 3 Regina, Sask.	Rogers-Majestic Corp., Ltd. I. W. E. Burke R. H. Williams & Sons. Ltd. Cooperative Wheat Producers, Ltd. Leader Publishing Co., Ltd. Domingo Fernandez Luis Perez Garcia
CNRX • 5000 2 Toronto, Ont.	Canadian National Railways Canadian National Railways
XED * 10000 961 Reynosa, Mex	International Broadcasting Co.
970 kilocycles 309.1 meters	
CMGF 50 977 Matanzas, Cuba KJR 5000 Seattle, Wash. WCFL 1500 NDn Chicago, Ill.	Bernabe R. de la Torre Northwest Broadcasting System, Inc. Chicago Federation of Labor
980 kilocycles 305.9 meters	26-16 9
CFCN 500 985 Calgary, Alta. KDKA 50000 N Pittsburgh, Pa. XEFE 101 Laredo, Mex.	Western Broadcasting Co. Westinghouse Elec. & Mfg. Co. Rafael T. Carranza 1050
990 kilocycles 302.8 meters	MTRS.
WBZ-A † 15000 1N Springfield-Boston XEK 101 Mexico City	Westinghouse Elec. & Mfg. Co. 285.5 Arturo Martinez DIAL
1000 kilocycles 299.8 meters	33 14 143
KFVD • 250 Dn Culver City, Cal. WHO • 5000 1N Des Moines, Iowa WOC • 5000 1N Davenport, Iowa XEI • 101 Morelia, Mex.	Los Angeles Broadcasting Co. Central Broadcasting Co. Central Broadcasting Co. Carlos Gutierrez M.
1010 kilocycles 296.8 meters	
CFLC • 50 3 Prescott, Ont. CKCR - 50 3 Waterloo, Ont. CKIC - 50 Wolfville, N. S. CMBW - 150 Havana, Cuba CMBZ - 150 Havana, Cuba KGGF † 500 2 S. Coffeyville, Okla. KQW * 500 San Jose, Cal. WHN * 250 1 New York City WIS * 500 2 Norman, Okla. WPAP * 250 1 New York City WAO 250 1 New York City WOAO 250 1 New York City WOAO 250 1 New York City WRNY 250 1 New York City WQAO 250 1 New York City WRNY 250 1 New York City WRU 1000 10	Radio Association John Patterson Acadia University M. Alvarez Manuel y G. Salas Powell & Platz Pacific Agricultural Foundation, Ltd. Marcus Loew Booking Agency South Carolina Broadcasting Co., Inc. University of Oklahoma Palisades Amusement Park Calvary Baptist Church Aviation Radio Station, Inc. Feliciano Lopez Islas
1020 kilocycles 293.9 meters	
KFKX • 10000 1N Chicago, III. KYW • 10000 1N Chicago, III. WRAX † 250 D Philadelphia, Pa.	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. WRAX Broadcasting Co.
1030 kilocycles 291.1 meters	
CFCF 1650 N Montreal, Que. CMKC 150 1034 Santiago de Cuba CNRV 500 Vancouver, B. C. XEB 1000 Mexico City, Mex. XEV 101 1034 Puebla, Mex.	Canadian Marconi Co. M. P. Martinez Canadian National Railways El Buen Tono, S. A. Ciro Molina
1040 kilocycles 288.3 meters	
KRLD* 100001CDallas, TexasKTHS† 100001NHot Springs, Ark.WKAR* 1000DEast Lansing, Mich.WMAK* 1000DnBuffalo, N. Y.	KRLD Radio Corp. Chamber of Commerce Michigan State College Buffalo Broadcasting Corp.
1050 kilocycles 285.5 meters	
KFBI • 5000 Dn Milford, Kansas KNX • 5000 X Hollywood, Cal.	Farmers & Bankers Life Insurance Co. Western Broadcast Co.
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1060 kilocycles		
KWJJ - 500 Dn WBAL * 10000 1N WJAG * 1000 Dn WTIC * 50000 1N	Baltimore, Md.	KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.
1070 kilocycles	280.2 meters	18 11 72
CMBG - 150 CMBT - 150 CMCB - 150 KJBS * 100 WCAZ * 50 WDZ † 100 WTAM * 50000 N	Havana, Cuba Havana, Cuba Havana, Cuba San Francisco, Cal. Carthage, III. Tuscola, III. Cleveland, Ohio	Francisco Garrigo E. Perera Antonio Capablanca Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush National Broadcasting Co., Inc.
1080 kilocycles	277.6 meters	
WBT * 5000 C WCBD * 5000 1 D WMBI * 5000 1 D XEH 5000	Charlotte, N. C. n Zion, III. n Chicago, III. Monterrey, Mex.	Station WBT, Inc. Wilbur Glenn Voliya Moody Bible Institute Tarnava y Cia
1090 kilocycles	275.1 meters	
KMOX * 50000 C XEL 10 1091	-,	Voice of St. Louis, Inc. Antonio Garza Castro
1100 kilocycles	272.6 meters	
CMKD 20 KGDM * 250 DX WLWL * 5000 1 WPG * 5000 1C	Santiago, Cuba Stockton, Cal. New York City Atlantic City .N. J.	Jose Caluff E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.
1110 kilocycles	270.1 meters	
CMHI 15 KSOO * 2000 Dn WRVA * 5000 N	Santa Clara, Cuba Sioux Falls, S. D. Richmond, Va.	Laviz y Paz Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.
1120 kilocycles	267.7 meters	
$\begin{array}{cccc} CFJC & - & 100 & - \\ CHCS & - & 100 & 4 \\ CHCS & * & 100 & - \\ CJOC & \dagger & 50 & 4 \\ KFIO & \dagger & 100 & D \\ KFSG & * & 500 & 3 \\ KMCS & * & 500 & 3 \\ KRSC & \dagger & 500 & 2 \\ WDBO & * & 500 & + C \\ WDEL & \dagger & 250 & + \\ WHAD & & 250 & 1 \\ WISN & \dagger & 250 & 1 \\ WIAW & * & 500 & 2 \\ \end{array}$	Kamloops, B. C. Hamilton, Ont. Summerside, P. E. I. Lethbridge, Alta. Hamilton, Ont. Spokane, Wash. Los Angeles, Cal. Inglewood, Cal. Seattle, Wash. Houston, Texas Orlando, Fla. Wilmington, Del. Milwaukee, Wis. College Station, Texas	N. S. Dalgleish & Sons The Hamilton Spectator R. T. Holman, Ltd. Harold R. Carson Wentworth Radio & Auto Sply. Co., Ltd Spokane Broadcasting Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. Rice Hotel Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College
1130 kilocycles	265.3 meters	
KSL * 5000 N WJJD * 20000 C Dn WOV - 1000 D XEE * 105	Salt Lake City	Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Alfonso Zorilla B.
1140 kilocycles	263.0 meters	
CMGD 5 KVOO * 5000 1N WAPI * 5000 1N XETA 500	Matanzas, Cuba Tulsa, Okla. Birmingham, Ala. Mexico City	Rafael Rodriguez Southwestern Sales Corp. Alabama Polytechnic Institute Manuel Espinosa Tagle
1150 kilocycles	260.7 meters	
CMCQ - 600 CMHA - 200 1154 CMQ † 250 WHAM • 5000 N	Havana, Cuba Cienfuegos, Cuba Havana, Cuba Rochester, N. Y.	Andres Martinez Fox Bross Co. Jose Fernandez Stromberg-Carlson Tel. Mfg. Co.

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1160.1 *	1 1					
1160 ki	-		258.5 meters	124		612
WOWO * WWVA *	10000 5000	1C 1	Ft. Wayne, Ind. Wheeling W. Va.	Main Aut West Virg	o Supply Co inia Broadca	sting Corp.
1170 ki	locycl	es	256.3 meters			
CMKG KTNT *	30	1176	Santiago de Cuba	Ricardo A	rnaldo	
WCAU *	5000 10000	Dn C	Muscatine, Iowa Philadelphia, Pa.	Norman I Universal	3aker Broadcastin	g Co.
1180 ki	locycl	es	254.1 meters			
CMGB KEX •	7.5 5000	1185 2	Matanzas, Cuba Portland, Ore.	Jose Anor	ga	C -
KOB *	20000	2	State College, N. M.	College of	Broadcasting Agriculture	& Mech. Arts
WDGY * WGBS ‡	1000 500	1 Dn	Minneapolis, Minn. New York City	Dr. Georg General B	e W. Young roadcasting	System Inc
WGBS ‡ WHDI *	500	1 Dn	Minneapolis, Minn.	Wm. Hood	d Dunwoody	Industrial Inst.
1190 ki	locycl	es	252.0 meters			
WOA1 *	50000	N	San Antonio, Texas	Southern	Equipment	Co.
1200 ki	locycl	es	249.9 meters			
CFCH	50 15		North Bay, Ont.	Northern	Supplies, Lt	d.
	100	D.	Santiago de Cuba Paragould, Ark.	Welchor A W. I. Beau	aguero rd's Temple	of Music
KBTM KFJB † KFWF	100	+ 5+	Marshalltown, Iowa	Marshall I	Electric Co., Truth Cente	Inc.
KGCU	100		St. Louis, Mo. Mandan, N. D.	St. Louis Mandan F	Truth Cente Radio Associa	r, Inc. ition
KGDE *	100	+	Fergus Falls, Minn.	Iaren Dru	ur Co	
KGDY KGEK Ť	100 50	9	Huron, S. D. Yuma, Colo.	Beehler El	outh Dakota lec. Equipme rt Morgan	ent Co.
KGEK † KGEW † KGFJ	100 100	9	Fort Morgan, Colo.	City of Fo	rt Morgan	
KGHI *	100		Los Angeles, Cal. Little Rock, Ark. Lacey, Wash.	Ben S. Mc Berean Bi	ble Class	
KGY †	10	+ D	Lacey, Wash.	St. Martir	n's College	
KMLB KSMR KVOS	50 100	D	Monroe, La. Santa Maria, Cal.	G. C. Line Santa Mai	ria Radio	
KVOS • KWG *	100 100		Santa Maria, Cal. Bellingham, Wash.	KVOS, In	c. Vireless Tel.	0 I
WABI †	100		Stockton, Cal. Bangor, Maine	Pine Tree	Broadcastin	g Corp.
WABZ * WBBZ *	100 100	1	New Orleans, La	Samuel D.	Reeks	6 F
WCAT †	100		Ponca City, Okla Rapid City, S. D. Burlington, Vt. Janesville, Wis.	C. L. Carr State Scho	ool of Mines	
	100 100	2	Burlington, Vt.	University	of Vermont	
WCLO † WCOD †	100	3	Harrisburg, Pa.	WCLO Ra Keystone	Broadcasting	Corp.
WEPS † WFBC *	100 50	7	Harrisburg, Pa. Worcester, Mass.	Alfred Fra	Broadcasting nk Kleindier	nst
WFBE	100	+ 4S	Knoxville, Tenn. Cincinnati, Ohio	WFBE, In	ist Church c.	
WHBC † WHBY †	$\begin{array}{c} 10 \\ 100 \end{array}$		Centon Ohio	St. John's	Catholic Ch t's College	urch
WIBX *	100	+ 5+	Green Bay, Wis. Utica, N. Y.	WIBX, In	c.	
WIL • WJBC • WJBL •	100 100	5+	St. Louis, Mo. La Salle, Ill. Decatur, Ill.	Missouri I	Broadcasting	Corp.
WJBL †	100	6 6	Decatur, Ill.	Commodo	Broadcastin re Broadcast	ing. Inc.
WJBW †	100 100	1 3	New Orleans, La.	Charles C.	Carlson, Jr.	
WLAP †	100	+c	Lancaster, Pa. Louisville, Ky.	Kirk, Johr American	Broadcastin	g Corp. of Ky.
WLBG 🔹	100 100	4	Louisville, Ky. Petersburg, Va.	Robert All	len Gamble	
WNBO * WNBW †	100		Washington, Pa. Carbondale, Pa.	Home Cut	vnlee Spriggs Glass & Chi	ina Co.
WNBX †	$10 \\ 100$	2	Carbondale, Pa. Springfield, Vt. Worcester, Mass.	First Cong	regational C nk Kleindier	hurch
WORC * WRAF *	100	7CX 8 Y	La Porte, Ind.	South Ben	id Tribune	150
WRBL †	50	8	Columbus, Ga. Hammond, Ind.	David Pari	mer	and Come
WWAE * XEA 10-BP *	100 101 25	•	Guadalajara, Mex. Wingham, Ont.	Alberto Pa	l-Calumet B alos Sauza lectric Shop	ioau. Corp.
1210 kil	-		247.8 meters			
				W		
CFCO CFNB *	100 500		Chatham, Ont. Fredericton, N. B.	James S. N	Veill & Sons.	ter Radio'' Club Ltd.
CJOR *	500		Sea Island, B. C.	G. C. Char	ndler	
CKMC	15		Cobalt, Ont.	R. L. Mac.	Adam	
			F 43 T			

ксуз. 1210 мтрз. 247.8 dial

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		11.	DEA	DI INEQUENCIES A	ND DIAL NUMBERS
CKPC	+	25	+	Preston, Ont.	Metal Shingle & Siding Co.
KDFN	Ŧ	100		Preston, Ont. Casper, Wyo. Devils Lake, N. D.	Donald Lewis Hathaway
KDLR	1	100		Devils Lake, N. D.	KDLR, Inc.
KFOR KFVS		100 100	6	Lincoln, Nebr.	Howard A. Shuman
KFXM	r +	100	9	Cape Girardeau, Mo. San Bernardino, Cal.	Hirsch Battery & Radio Co. J. C. & E. W. Lee
KFXM KGCR KGMF	1	100	-1-	Watertown, S. D.	Greater Kampecka Radio Corp.
KGMF		100		Elk City, Okla.	Bryant Radio & Electric Co
KGNO) *	100		Elk City, Okla. Dodge City, Kans.	Dodge City Broadcasting Co.
KMJ	*	100	2 1 1	Fresno, Cal.	Dodge City Broadcasting Co. James McClatchy Co. Pasadena Presbyterian Church
KPPČ KWEA	\$	50 100	9	Pasadena, Cal.	Pasadena Presbyterian Church
WALR		100		Shreveport, La. Zanesville, Ohio	Hello World Broadcasting Corp. Roy. W. Waller John H. Stenger, Jr. Grace Covenant Pres. Church
WBAX		100	ī	Wilkes-Barre, Pa.	John H. Stenger Ir
WBBL	+	100	7S	Richmond, Va.	Grace Covenant Pres. Church
WCBS	*	100	23	Springfield III	H. L. Dewing & Chas. Messter Westchester Broadcasting Corp.
WCOH WCRW	/ *	100	3	Yonkers, N. Y. Chicago, Ill. Providence, R. I.	Westchester Broadcasting Corp.
WDWF	7	100 100	4 5	Chicago, III. Providence P I	Clinton R. White Dutee W. Flint
WEBO	- #T	100	ő	Harrisburg, Ill.	First Trust & Savings Bank
WEBO WEDC		100	4	Chicago, Ill.	Emil Denemark, Inc.
WGBB	*	100	3	Freeport, N. Y.	Harry H. Carman
WGCM	1 *	100		Gulfport, Miss	Great Southern Land Co., Inc.
WHBF WHBU		100		Rock Island, Ill.	Beardsley Specialty Co. Citizens Bank
WIBU	†	100 100		Anderson, Ind.	Wm. C. Forrest
ŴĴBĬ		100	3	Poynette Wis. Red Bank, N. J.	Monmouth Broadcasting Co.
WJBU	*	100	ī	Lewisburg, Pa.	Bucknell University
WIBU WJBI WJBU WJBY WJW WLCI WLSI		50		Gadsden, Ala.	Gadsden Broadcasting Co., Inc.
WICI	*	100		Mansfield, Ohio	Mansfield Broadcasting Assn.
WLSI		50 100	5 7	Ithaca, N. Y. Providence, P. J.	Lutheran Assn. of Ithaca
WMBG		100	7	Providence, R. I. Richmond, Va. Jamaica, N. Y.	The Lincoln Studios, Inc.
WMRJ		100	Ĵ.	Jamaica, N. Y.	Havens & Martin, Inc. Peter J. Prinz <u>A</u> . E. Newton
WOCL	*	50		Jamestown, N. Y.	A. E. Newton
WOMT	`* *	100	2.1.1	Manitowoc, Wis. Pawtucket, R. I.	Francis M. Kadow
WPAW WQDX		100	5	Pawtucket, R. I.	Shartenburg & Robinson Co.
WRBQ	÷ +	$100 \\ 100$	Ŧ	Thomasville, Ga. Greenville, Miss.	Stevens Luke J. Pat. Scully World Battery Co., Inc.
WSBC	†	100	4	Chicago, Ill.	World Battery Co Inc
WSEN	ŧ			Columbus, Ohio	Columbus Broadcasting Co.
WSEN WSIX	† *	100 100		Columbus, Ohio	638 Tire & Vulcanizing Co.
WSEN WSIX WSOC	‡ 1	100 100 100		Columbus, Ohio Springfield, Tenn. Gastonia, N. C.	638 Tire & Vulcanizing Co.
WSEN WSIX WSOC WTAX	‡ ‡	100 100 100 100		Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, Ill.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc.
WSEN WSIX WSOC WTAX XEX	†	100 100 100 100 500	2	Columbus, Ohio Springfield, Tenn. Gastonia, N. C.	638 Tire & Vulcanizing Co.
WSEN WSIX WSOC WTAX XEX	†	100 100 100 100 500	2	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City	638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.
WSEN WSIX WSOC WTAX XEX 1220	†	100 100 100 500	2 1es	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters	638 Tire & Vulcanizing Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.
WSEN WSIX WSOC WTAX XEX 1220 CMCA	†	100 100 100 500 OCYC 150	2 les 1225	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD	‡ kil	100 100 100 500	2 les 1225 1225	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCN KFKU	‡ kil	100 100 100 500 OCYC 150 250 250 250 500	2 les 1225	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD CMCN KWSC	‡ kil	100 100 100 500 OCYC 150 250 250 500 1000	2 1es 1225 1225 1225 1225 1 +	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD CMCN KFKU KWSC WCAD	‡ kil	100 100 100 500 OCYC 150 250 250 250 500 1000 500	2 les 1225 1225 1225 1225 1 1225 1 1 D	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCN KFKU KWSC WCAD WCAE	‡ kil	100 100 500 OCYC 150 250 250 250 500 1000 500	2 1es 1225 1225 1225 1225 1 1225 1 1 0 N	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD CMCN KFKU KWSC WCAD	‡ kil	100 100 100 500 OCYC 150 250 250 250 500 1000 500	2 les 1225 1225 1225 1225 1 1225 1 1 D	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, Ill. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD CMCD CMCN KKSC WCAD WCAE WDAE WREN	kil	100 100 100 500 OCYC 150 250 500 1000 1000 1000 1000	1225 1225 1225 1225 1225 1 + D N C 1N	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD CMCD CMCD CMCN KWSC WCAD WCAE WDAE WDAE WDAE 1230	kil	100 100 100 500 OCYC 150 250 250 500 1000 1000 1000	1225 1225 1225 1225 1225 1 + D N C 1N	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, Ill. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCD CMCD CMCD CMCN KWSC WCAD WCAE WDAE WDAE WDAE 1230	kil	100 100 100 500 OCYC 150 250 250 500 1000 1000 1000 1000 0CYC 100	2 1es 1225 1225 1225 1225 1225 1225 1225 1225 1225 125 1	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fia. Lawrence, Kans. 243.8 meters	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCD CMCA CMCD CMCA WCAD WCAE WDAE WDAE WDAE WDAE WDAE WDAE WDAE WD	kil	100 100 100 500 OCYC 150 250 500 1000 1000 1000 0CYC 100 250	2 1225 1225 1225 1225 1225 1 225 1 225 1 225 1 225 1 225 1 225 1 225 125 1	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Hav	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co. Anchorage Radio Club New Mexico Broadcasting Co.
wsen wsix wsoc wtax xex 1220 cmca cmcd cmcd cmcd cmcd cmcd cmcd cmcd	kil	100 100 100 500 OCYC 150 250 250 500 1000 1000 1000 1000 100	2 1225 1225 1225 1225 1225 1 225 1 225 1 225 1 225 1 225 1 225 1 225 125 1	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans. 243.8 meters Anchorage, Alaska Albuguerque, N. Mex. San Francisco, Cal.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co. Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Co.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCD CMCA CMCA WCAD WCAE WCAD WCAE WREN 1230 KFGD KGGM KYA WBIS	kil	100 100 100 500 OCYC 150 250 500 1000 1000 1000 1000 0CYC 100 250 1000 250 1000	2 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 5 1 2 1 2 5 1 2 1 2 5 1 2 2 5 1 2 2 5 1 2 2 5 1 1 2 5 1 2 1 2 5 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Hav	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co. Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Corp.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCD CMCA CMCD CMCA WCAE WCAE WCAE WRAE WREN 1230 KGGM KGGM KYA WBIS WFBM	kil	100 100 100 500 OCYC 150 250 250 500 1000 1000 1000 1000 100	2 1225 1225 1225 1225 1225 1 225 1 225 1 225 1 225 1 225 1 225 1 225 125 1	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Hav	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co. Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCD CMCA CMCD CMCA WCAD WCAE WDAE WDAE WDAE WDAE NGGM KYA WFBM WFBM WFBC WPSC	kil	100 100 100 500 OCYC 150 250 250 1000 1000 1000 1000 1000 250 1000 250 1000 100	1225 1225 1225 1225 1225 1225 1225 1225	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Hav	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co. Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co. Shepard Broadcasting Service, Inc.
WSEN WSIX WSOC WTAX XEX 1220 CMCA CMCD CMCA CMCD CMCA CMCD CMCA WCAE WCAE WCAE WRAE WREN 1230 KGGM KGGM KYA WBIS WFBM	kil	100 100 100 100 500 250 250 250 500 1000 10	2 2 1225 1225 1225 1225 1 2 1 N C 1N 1es 	Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, III. Mexico City 245.8 meters Havana, Cuba Havana, Cuba Havana, Cuba Lawrence, Kans. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans. 243.8 meters Anchorage, Alaska Albuquerque, N. Mex. San Francisco, Cal. Boston, Mass. Indianapolis, Ind.	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co. WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A. M. Cruz Angel Bertamaty Antonio Ginard University of Kansas State College of Washington St. Lawrence University Gimbel Bros. Tampa Publishing Co. Jenny Wren Co. Anchorage Radio Club New Mexico Broadcasting Co. Pacific Broadcasting Corp. Shepard Broadcasting Corp. Shepard Broadcasting Service, Inc. Indianapolis Power & Light Co.
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WAAM		1000	1 + X	Newark, N. J. Northfield, Minn.	WAAM, Inc. St. Olaf College Jos. H. Uhalt May Radio Broadcast Corp.
WCAL		1000	2	Northfield, Minn.	St. Olaf College
WDSU	†	1000	C	New Orleans, La.	May Radio Broadcast Corp.
WGCP WLB	Ŧ	250 1000	12	Newark, N. J. St. Paul, Minn.	University of Minnesota Richard E. O'Dea
WODA		1000	1 2	Paterson, N. I.	Richard E. O'Dea
WRHM		1000	2	Minneapolis, Minn.	Minnesota Broadcasting Corp.
XEFA		250	14.4	Mexico City	Luis F. Murgula
1260	kil	ocycl	les	238.0 meters	5 2 3
KOIL	*	1000	С	Council Bluffs, Iowa	Mona Motor Oil Co.
KRGV	*	500	Ĩ D	Harlingen, Texas Tucson, Ariz	KRGV, Inc. Robert M. Riculfi
KVOA KWWG	1	500 500	i	Brownsville, Texas	Herald Pub. Co.
WLBW		500	Č+	Oil City, Pa.	Herald Pub. Co. Radio-Wire Program Corp.
WTOC	*	500	C	Savannah, Ga.	Savannah Broadcasting Co.
1270	kil	ocvel	les	236.1 meters	
СМЈВ		20	1276	Ciero de Avile, Cube	Eduardo V. Figueroa
KFUM		1000		Colorado Springs, Colo. Decorah, Iowa Seattle, Wash. Seattle, Wash. Decorah, Iowa Coroah, Iowa	Reynolds Radio Co., Inc. Charles W. Greenley
KGCA	ţ	50	2D	Decorah, Iowa	Charles W. Greenley
KOL	- T	1000	3C 3	Seattle, Wash	Seattle Rroadcasting Co., Inc. First Presbyterian Church
KŤŴ KWLC	*	1000 100	2D	Decorah, Iowa	Luther College
WASH		500	1	Grand Kapids, Mich.	WASH Broadcasting Corp.
WEAI		1000	D	Ithaca, N. Y.	Cornell University Baltimore Radio Show, Inc.
WFBR	*	500	NI.	Baltimore, Md. Jackson, Miss.	Lamar Life Insurance Co.
W JDX WOOD	Ť	1000 500	N 1	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.
1280				234.2 meters	
	KII			L	Jesus Lopez
CMBJ CMBM		15 15	1285 1285	Havana, Cuba Havana, Cuba	Jose Leiro
CMCG		30	1285		Jose Justo Moran
CMCG CMCH		15	1285	Havana, Cuba	Hernani Torralbas Aurelio Hernandez
CMCR	÷-	20 1000	1285	Havana, Cuba Havana, Cuba Havana, Cuba Great Falls, Mont. Camden N. L	Buttrey Broadcast, Inc.
KFBB WCAM	*	500	ī	Camden, N. J.	City of Camden
WCAM WCAP		500	1	Camden, N. J. Asbury Park, N. J.	Radio Industries Broadcast Co.
WDOD	*	1000	+c	Chattanooga, lenn.	WDOD Broadcasting Corp. Capital Times Co.
WIBA WOAX	•	500 500	1	Trenton, N. I.	WOAX, Inc.
WRR	ŧ.	500	Ċ	Madison, Wis. Trenton, N. J. Dallas, Texas	WÔAX, Inc. City of Dallas
1290	kil	ocvc	les	232.4 meters	
KDYL	t	1000	С	Salt Lake City	Intermountain Broadcasting Corp.
KFUL KLCN		500	1	Galveston, Texas	Will H. Ford
KLCN	÷.	50	D 1+C	Blytheville, Ark. San Antonio, Texas	C. L. Lintzenich Lone Star Broadcast Co.
KTSA WEBC	‡	1000 1000	+N	Superior, Wis.	Head of Lake Broadcasting Co.
WJAS	*	1000	C+ D	Pittsburgh, Pa. Saranac Lake, N. Y.	Pittsburgh Radio Supply House
WNBZ		50	D	Saranac Lake, N. Y.	Smith & Mace
1300	kil	ocyc	les	230.6 meters	
KFAC		1000	4	Los Angeles, Cal.	Los Angeles Broadcasting Co.
KFH		1000	2C	Wichita, Kansas	Radio Station KFH Co.
KF JR KGEF	:	500 1000	3	Portland, Ore. Los Angeles, Cal.	Ashley C. Dixon & Son Trinity Methodist Church
KTBR	•	500	4 3	Portland, Ore.	M. E. Brown
WBBR		1000	1	Brooklyn N Y	People's Pulpit Association
WEVD	*	500	1	New York City New York City Troy, N. Y.	Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc.
WHAP WHAZ	-	1000 500	1	Trov N. Y.	Rensselaer Polytechnic Institute
WIOD		1000	N	Miami, ria.	Isle of Dreams Broadcasting Corp.
woq		1000	2	Kansas City, Mo.	Unity School of Christianity Juan Gutierrez, Jr.
XETY	17	2000		Mexico City	Juan Gutterrez, jr.
1310	ki]	locyc	les	228.9 meters	
KCRJ	t	100		Jerome, Ariz.	Chas. C. Robinson Jas. McClatchy Co. Boone Biblical College
KFBK	- ‡	100	7	Sacramento, Cal. Boone, Iowa	Boone Biblical College
KFGQ KFIU	*	100 10		Juneau, Alaska	Alaska Electric Light & Power Co.
KFJY		100	7	rt, Dodge, Iowa	C. S. Tunwall C. C. Baxter
KFPL	1	100		Dublin, Texas Greenville, Texas	C. C. Baxter The New Furniture Co.
KFPM KFUP	•	15 100	8	Denver, Colo.	Fitzsimmons General Hospital
		*00			W Class Deve departing Co.
KFXJ	t	100	8	Grand Junction, Colo.	Western Slope Broadcasting Co.

Radio Stat Ashley C. I Trinity Me M. E. Brow People's Pu Debs Memo Defenders Rensselaer Isle of Drei	Ipit Associati orial Radio Fu of Truth Socie Polytechnic I ams Broadcast ool of Christia	h on Ind, Inc. ity, Inc. nstitute ting Corp.
Alaska Elec C. S. Tunw C. C. Baxte The New F Fitzsimmo	itchy Co. lical College ctric Light & I vall	ospital

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KCYS.

1310

MTRS. 228.9DIAL

KFXR † KGBX † KGEZ † KGFW † KIT † KTLC * KTSL * KTSL * KTSL * KTSL * WBCV † WBCV * WBCV * WBCV * WBCV * WBCV * WEBR * WEBG *	50 9	 St. Joseph, Mo, Wolf Point, Mont. Kalispell, Mont. Ravenna, Neb. Yakima, Wash. Medford, Ore. Shreveport, La. Houston, Tex. Shreveport, La. El Paso, Texas Cedar Rapids, Iowa Aberdeen, Wash. Marquette, Mich. Terre Haute, Ind. Wilkes-Barre, Pa. Joliet, Ill. El Paso, Texas Buffalo, N. Y. Royal Oak, Mich 	Exchange Ave. Baptist Church KGBX Inc. First State Bank of Vida Treloar-Church Brdestg. Co. Central Nebraska Broadcasting Corp. Carl E. Haymond Mrs. W. J. Virgin Robert M. Dean Houston Broadcasting Co. G. A. Houseman W. S. Bledsoe & W. T. Blackwell Harry F. Paar KXRO, Inc. Charles B. McCleod Banks of Wabash, Inc. Louis G. Baltimore WCLS, Inc. Bledsoe & Blackwell Howell Broadcasting Co., Inc. Royal Oak Broadcasting Co. Ym., F. Gable Co.
WFDF * WGAL * WGH * WHAT † WJAC *	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Flint, Mich. Lancaster, Pa. Newport News, Va. Philadelphia, Pa.	Frank D. Fallain WGAL, Inc. Hampton Roads Broadcasting Corp.
WJAC * WJAK * WKAV * WKBB * WKBC *	100 3 50 6 100 100 1 100	Johnstown, Pa. Marion, Ind. Laconia, N. H. Joliet, Ill. Birmingham, Ala.	Independence Broadcasting Co. Johnstown Automobile Co. Marion Broadcasting Co. Laconia Radio Club Sanders Bros. Radio Station R. B. Broyles Furniture Co.
WKBS * WLBC † WMBO † WNBH * WOBT † WOL *	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Galesburg, III. Muncie, Ind. Auburn, N. Y. New Bedford, Mass. Union City. Tenn.	Permil N. Nelson Donald A. Burton Radio Service Laboratories New Bedford Broadcasting Co. Tittsworth's Radio & Music Shop
WRAW WRBI WROL † WSAJ * WSJS *	100 100 5X 100 100 100	Washington, D. C. Reading, Pa. Tifton, Ga. Knoxville, Tenn. Grove City, Pa. Winston-Salem, N. C.	American Broadcasting Co. Reading Broadcasting Co. Oglethorpe University Stewart Broadcasting Co. Grove City College Winston-Salem Journal Co.
wtel • 1320 kil	100 4	Philadelphia, Pa. 227.1 meters	Winston-Salem Journal Co. Foulkrod Radio Engineering Co.
CMJC CMKH KGHF † KGMB † KID † KTFI WADC † WSMB *	15 132 250 132 250 + 500 250 1+ 250 1X 1000 C 500 N	Camaguey Cubo	Feliciano Isaac Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.
1330 kil KGB * WDRC • WSAI • WTAQ * XEC	$\begin{array}{c} \text{ocycles} \\ {}^{500}_{1000} & 1+0 \\ {}^{500}_{500} & \text{C} \\ {}^{500}_{1000} & 1\text{C} \\ {}^{50}_{50} & {}^{1333} \end{array}$	Cincinnati, Ohio Eau Claire, Wis	Don Lee, Inc. Perkins Bros. Co. WDRC, Inc. Crosley Radio Corp., Lessee Gillette Rubber Co. Jesus R. Benavides
1340 kil		223.7 meters	
CMBA CMBF CMCU CMCY KFPW KFPY WCOA WSPD	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio	Oscar Montenegro Jose G. Reigada Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.
1350 kild KWK * WBNX * WCDA * WEHC * WMSG	Docycles 1000 N 250 1 250 1 250 1 250 1 250 1 250 1	222.1 meters St. Louis, Mo. Zarephath, N. J. New York City New York City Emory, Va. New York City [46]	Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc. Italian Educ. Broadcasting Co., Inc. Emory & Henry College Madison Sq. Garden Brdcstg. Corp.

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1360 kilocycles	220.4 meters		
CMKF 30 13	63 Holguin, Cuba	Manuel J. de Gongora	
KGER * 1000 KGIR † 500	Long Beach, Cal.	C. Merwin Dobyns KGIR, Inc.	
WCSC + 500	Butte, Mont. Charleston, S. C.	Jordan & Burk	
WFBL * 1000 C		Onondaga Radio Broadcasting Corp.	
WGES * 500 1- WJKS * 1000 1-	- Chicago, Ill.	Oak Leaves Broadcasting Station, Inc. Johnson-Kennedy Radio Corp.	
	⊢ Gary, Ind. PD Vicksburg, Miss.	Delta Broadcasting Co., Inc.	
1370 kilocycles			
CMAC 30 13	75 Pinar del Rio, Cuba	Oscar S. Mechoso	
CMGE 30 13 KCRC † 100 2-		Genaro Sebater Champlin Refining Co.	
KFBL * 50 3	Everett, Wash.	Leese Bros.	
KFJI † 100 KFJM † 100 KFJZ * 100	Astoria, Ore.	KFJI Broadcasters, Inc.	
KFJM † 100 KFJZ * 100	Et Worth Texas	University of North Dakota Estate of H. C. Meachem	
KFLX 100	 Galveston, Texas 	George Roy Clough	
KGAR * 100 +	Tucson, Ariz.	Tucson Motor Service Co.	
KGDA † 100 KGFG † 100 2	- Mitchell, S. D. Oklahoma City	Mitchell Broadcasting Corp. Oklahoma Broadcasting Co., Inc.	
KGFL † 50	Reton N M	W. E. Whitmore	
KGKL † 100	San Angelo, Texas	KGKL, Inc., Opr. by Ragsdale Auto	
KMAC † 100 5 KONO † 100 5	San Antonio, Tex. San Antonio, Texas	W. W. McAllister Mission Broadcasting Co.	
KOOS * 100	_ Marshfield, Ore.	H. H. Hanseth. Inc.	
KRE 100 6	Berkeley, Cal. Walla Walla, Wash.	First Congregational Church	
KUJ † 100 KVL 100 3	Seattle, Wash.	Paul R. Heitmeyer KVL, Inc.	
KWKC 100	 Kansas City, Mo. 	Wilson Duncan Broadcasting Co. Leon P. Tenney	
KZM * 100 6	Hayward, Cal.	Leon P. Tenney W. N. Parker and H. H. Metcalfe	
WBGF † 50 WBTM † 100 7	- Glens Falls, N. Y. Danville, Va.	Clarke Electric Co.	
WCBM * 100 +	Z Baltimore, Md.	Baltimore Broadcasting Corp.	
WELK ¢ 100 + WFDV † 100 -	Philadelphia, Pa.	WELK Broadcasting Station, Inc. Dolies Goings	
WFDV † 100 WGL * 100 C	- Rome, Ga. Fort Wayne, Ind.	Fred C. Zieg	
WHBD † 100	Mount Orah Ohio	Fred C. Zieg F. P. Moler	
WHBD † 100 WHBQ † 100 WHDF † 100 +	Memphis, Tenn. Calumet, Mich. Jackson, Mich. Detroit, Mich.	Broadcasting Station WHBQ, Inc. Upper Michigan Broadcasting Co.	
WIBM 100 1	Jackson, Mich.	WIBM, Inc.	
WIRK # 50 1	Detroit, Mich.	James F. Hopkins, Inc.	
WLEY WLVA † 100 7	Lexington, Mass. Lynchburg, Va.	Lexington Air Stations Lynchburg Broadcasting Corp.	
WMBR † 100	- Tampa, Fla.	F. J. Reynolds	
WPOE † 100 WODM * 100 D	Patchogue, N. Y. St. Albans, Vt.	Nassau Broadcasting Corp.	
WQDM * 100 D WRAK * 100		A. J. St. Antoine C. R. Cummins	
WRAM * 100	 Wilmington, N. C. 	Wilmington Radio Association	
WRBJ † 10 WRDO § 100 Cl	Hattiesburg, Miss.	Woodruff Furniture Co., Inc. Albert S. Woodson	
WRIN 100	Th. 11/1	Racine Broadcasting Corp.	
	Buffalo, N. Y.	Seneca Vocational School	
1380 kilocycles			
KOH † 500 C KQV † 500 2	Reno, Nevada Pittsburgh, Pa.	Jay Peters KQV Broadcasting Co.	
KQV † 500 2 KSO * 500 1 WKBH * 1000 1	Clarinda, Iowa	Berry Seed Co.	KCYS.
WKBH * 1000 1	La Crosse, Wis.	WKBH, Inc.	1400
WSMK * 200 2	Dayton, Ohio	Stanley M. Krohn, Jr.	MTRS.
1390 kilocycles	215.7 meters		214.2
KLRA * 1000 10	C Little Rock, Ark.	Arkansas Broadcasting Co.	
KOY * 500 KUOA † 1000 1	- Phoenix, Ariz. Favetteville Ark	Nielson Radio & Sporting Goods Co. University of Arkansas	DIAL
KUOA † 1000 1 WHK • 1000 C	Fayetteville, Ark. Cleveland, Ohio	University of Arkansas Radio Air Service Corp.	
1400 kilocycles	214.2 meters		1
CMBI 30 14	05 Havana Cuba	Heriberto Meireles	
ČMBK15 14	05 Havana, Cuba	Jose L. Ferriol Armado Romeu	
ÓMBO 50 14	05 Havana, Cuba 05 Havana, Cuba	Emilio Salas	
$\begin{array}{c} \text{CMBQ} \\ \text{CMBX} \\ \\ 30 \\ 14 \end{array}$	05 Havana, Cuba	Bertin Fernandez	
CMBY 100 14	05 Havana, Cuba Ogden, Utah	Lino E. Cosculluela Peery Building Co.	
KLO * 500 KOCW * 250 +	Chickasha, Okla.	College for Women	
WBAA † 500 1-	 Lafayette, Ind. 	Purdue University	
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WBBC * WCGU * WCMA † WFOX	500 2 500 2 500 1 500 2	Brooklyn, N. Y. Brooklyn, N. Y. Culver, Ind. Brooklyn, N. Y.	Brooklyn Broadcasting Corp. U. S. Broadcasting Corp. General Broadcasting Corp. Paramount Broadcasting Co.
WKBF † WLTH • XEP	500 1 500 2 2500	Indianapolis, Ind. Brooklyn, N. Y. Laredo, Mex.	Paramount Broadcasting Co. Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc. La Voz Latino
1410 kil	locycles	212.6 meters	
KFLV † KGRS *	500 4 1000 1	Rockford, Ill. Amarillo, Texas	Rockford Broadcasters, Inc.
WAAB * WBCM *	500 2C	Boston, Mass.	Gish Radio Service Bay State Broadcasting Corp.
WDAG 🔹	500 C 1000 1	Bay City, Mich. Amarillo, Texas	James E. Davidson National Radio & Broadcasting Corp.
WHBL * WHIS †	500 4 250	Sheboygan, Wis. Bluefield, W. Va.	Press Pub. Co. Daily Telegraph
wodx •	500 3	Mobile, Ala.	Mobile Broadcasting Corp.
WRBX * WSFA †	$ \frac{250}{500} \bar{3}^{} $	Roanoke, Va. Montgomery, Ala.	Richmond Development Corp. Montgomery Broadcasting Co., Inc.
WSSH †	500 2	Boston, Mass.	Tremont Temple Baptist Church
1420 kil		211.1 meters	
KBPS KFIZ * KFQU * KFQW * KFXD *	100 4 100	Portland, Ore. Fond du Lac, Wis.	Benson Polytechnic Institute Reporter Printing Co.
KFQU * KFOW *	100 5 100	Holy City, Cal. Seattle Wash	W. E. Riker KEOW Inc
KFXD *	100	Holy City, Cal. Seattle, Wash. Nampa, Idaho	W. E. Riker KFQW, Inc. Service Radio Co. Mary M. Costigan
KFXY KFYO † KGFF †	100 + 100 + 100	Flagstaff, Ariz. Abilene, Texas	I. E. KIRKSEV
KGFF † KGGC †	100 100 5	Shawnee, Okla.	KGFF Broadcasting Co.
KGGC KGIW	100	San Francisco, Cal. Trinidad, Colo.	Golden Gate Broadcasting Co. Leonard E. Wilson
KGIX KGKX KGVO	100 100	Las Vegas, Nevada Sand Point, Idaho	Leonard E. Wilson Las Vegas, Nevada, Radio Corp. C. E. Twiss and F. H. McCann
KGKX † KGVO † KICK *	100 D 100	Missoula, Mont. Red Oak, Iowa Minot, North Dakota	Mosby's Incorporate
KLPM †	100	Minot, North Dakota	Red Oak Radio Corp. John B. Cooley
KORE * KTAP † KXL *	100	Eugene, Ore. San Antonio, Texas	Eugene Broadcasting Station Alamo Broadcasting Co.
KXV7	100 4	Portland, Ore. Houston, Texas	KXL Broadcasters, Inc.
WEDH •	100	Erie, Pa.	Harris County Broadcast Co. Erie Dispatch-Herald WEHS, Inc.
WEHS WELL † WFDW *	$ \begin{array}{cccc} 100 & 2 \\ 50 & X \\ 50 & X \end{array} $	Cicero, Ill. Battle Creek, Mich.	WEHS, Inc. Enquirer-News Co.
WFDW * WHDL *	100 100 D	Talladega, Ala. Tupper Lake, N. Y.	Raymond G. Hammett
WHFC	100 2	Cicero, Ill.	Tupper Lake Broadcasting Co., Inc. WHFC, Inc.
WIAS † WIBR *	100 50	Ottumwa, Iowa Steubenville, Ohio	Iowa Broadcasting Co. George W. Robinson
WILM * WJBO *	100	Steubenville, Ohio Wilmington, Del.	Delaware Broadcasting Co., Inc.
WKBI *	100 2	New Orleans, La. Chicago, Ill.	Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co.
WLBF † WMBC •	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Kansas City, Kas. Detroit, Mich. Joplin, Mo.	WLBF Broadcasting Co. Michigan Broadcasting Co., Inc.
WMBH WPAD †	100 + 100	Joplin, Mo.	Edwin Dudley Aber
WSPA 🔹	100 +	Paducah, Ky. Spartanburg, S. C.	Paducah Broadcasting Co. Voice of South Carolina
WTBO *		Cumberland, Md.	Associated Broadcasting Corp.
1430 kil		209.7 meters	
KGNF †	500 D	Los Angeles, Cal. North Platte, Neb. Harrisburg, Pa. Columbus, Ohio Memphis, Tenn. Harrichurg, Pa.	Earle C. Anthony, Inc. Great Plains Broadcasting Co.
WBAK WCAH *	500 1+ 500 C 500 2S	Harrisburg, Pa. Columbus, Ohio	Penna. State Police Commercial Radio Service Co.
WGBC * WHP *	500 2S	Memphis, Tenn.	Memphis Broadcasting Co.
WNBR •	500 1C+ 500 2	Harrisburg, Pa. Memphis, Tenn.	WHP, Inc. Memphis Broadcasting Co.
1440 kil	ocycles	208.2 meters	
KLS * WBIG *	250 D 500	Oakland, Cal. Greensborn N. C	Warner Bros.
WBIG * WCBA * WHEC *	250 1	Greensboro, N. C. Allentown, Pa.	North Carolina Broadcasting Co. B. B. Musselman
WMBD .	500 2C 500 3+ 500 2C	Rochester, N. Y. Peoria Heights, III.	Hickson Electric & Radio Corp. Peoria Heights Radio Laboratory
WOKO † WSAN ‡	500 2C 250 1	Albany, N. Y. Allentown, Pa.	WOKO, Inc.
WTAD †	$ \begin{array}{ccc} 250 & 1 \\ 500 & 3 \end{array} $	Quincy, Ill.	Allentown Call Publishing Co., Inc. Ills. Stock Medicine Broadcasting Co.

INDEX E	Y FREQUENCIES AN	D DIAL NOMBERS	
1450 kilocycles	206.8 meters		
CMKA 20 KTBS * 1000 WBMS * 250 1 WGAR † 500 N WHOM * 500 1 WKBO * 250 1 WNJ * 250 1 WSAR * 250 WTFI 500 Y	Santiago de Cuba Shreveport, La. Hackensack, N. J. Cleveland, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.	Arturio C. de Ribas Tri-State Broadcasting System, Inc. WBMS Broadcasting Corp. WGAR Broadcasting Co. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co., Inc. Toccoa Falls Broadcasting Co.	
1460 kilocycles	205.4 meters		
KSTP * 10000 N WJSV * 10000	St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470 kilocycles	204.0 meters [
KGA † 5000 WLAC • 5000 C	Spokane, Wash. Nashville, Tenn.	Northwest Broadcasting System, Inc. Life & Casualty Insurance Co.	
1480 kilocycles	202.6 meters		
KFJF * 5000 C WKBW * 5000 C XETO 101 1485	Oklahoma City Buffalo, N. Y. Mexico City	National Radio Mfg. Co. Buffalo Broadcasting Co., Lessees Ricardo Gonzalez Montero	
1490 kilocycles	201.2 meters [
WCHI * 5000 1 WCKY * 5000 1N WJAZ 5000 1	Chicago, Ill. Covington, Ky. Chicago, Ill.	People's Pulpit Association L. B. Wilson, Inc. Zenith Radio Corp.	
1500 kilocycles	199.9 meters		
CMBL 15 CMBR 15 CMCM 15 KDB 100 5 KGKT 5 KGK KGKK 100 + 50 X'' KGKK 50 X'' 100 KGKK 100 KPIM 100 KPIM 100 KPIM 100 KPQ 50 KPIM 100 KVIT 100 WEDX 100 WKBZ 100 WKBZ 50 WLOE 100 WMBQ 100 WMBQ 100 1 WMBQ 100 WNBF 100 WNBF 100 WNBF 100 WNBF 100 WNBF 100 WSYB	Havana, Cuba Havana, Cuba Havana, Cuba Santa Barbara, Cal. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Tyler, Texas Scottsbluff, Nebr. Prescott, Ariz. Wenatchee, Wash. Santa Ana, Cal. Austin, Texas El Centro, Cal. Tupelo, Miss. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Newport, R. I. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Binghamton, N. Y. Binghamton, N. Y. Bristol, Tenn. Phildelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y.	Julio C. Hidalgo Tomas Basail Martinez y Madico Alberto Fernandez Dwight Faulding Eagle Broadcasting Co., Inc. Red River Broadcasting Co., Inc. Grant City Park Corp. Eagle Publishing Co. Hilliard Co., Inc. A. P. Miller Wescoast Broadcasting Co. Pacific Western Broadcasting Driskill Hotel E. R. Irey and F. M. Bowles North Mississippi Broadcasting Corp. Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co. LeRoy Joseph Beebe Paul J. Gollhofer Arthur Faske First M. P. Church Howitt-Wood Radio Co., Inc. Radiophone Brdcstg. Station, Inc. Wm. Penn Broadcasting Co. Long Island Broadcasting Corp. William S. Walker	KCYS. 1500 MTRS. 199.9 DIAL

No. of Concession, Name						
AT ADANAA			Sam Jaco J J			
ALABAMA	Watts	Kcys.	San Jose J-1 Santa Ana M-3	500	KQW KREG	1010
Birmingham O-21	5000 WAPI	1140	Santa Barbara M-2	100 100	KREG	1500 1500
	500 WBRC 100 WKBC	930	Santa Maria L-2	100		
Gadsden O-21	100 WKBC 50 WIBY	1310 1210	Stockton J-2	250		
Mobile O-20	50 WJBY 500 WODX	1410		100		1200
Montgomery P-21 Talladega O-21	500 WSFA	1410				
Talladega O-21	100 WFDW	1420	COLORADO			
			Colorado Springs K-1			
ALASKA			Denver K-11	500	KFEL	920
Anchorage	100 KFOD	1230		100 500	KFUP	1310
Juneau	10 KFIU	1310	1	1000	KFXF KLZ	920 560
Ketchikan	500 KGBU	900		12500	KOA_	830
				500	KPOF	880
ARIZONA			Fort Morgan J-11	100	KGEW	
			Grand Junction K-9	100 500	KFXJ	1310
Flagstaff M-7 Jerome M-6	100 KFXY	1420	Greeley J-11 Pueblo L-11	250	KFKA KGHF	880 1320
Phoenix N-6	100 KCRJ 500 KOY	1310	Trinidad L-11	100	KGIW	1420
	500 KTAR	1390 620	Yuma J-12	50	KĞĒK	1200
Prescott M-6		1500				
Tucson O-7	100 KGĂR	1370	CONNECTICUT	•		
	500 KVOA	1260				
			Bridgeport H-27 Hartford H-27	250	WICC	600
ARKANSAS			Harciord H-2/	500 50000	WDRC	1330
Blytheville M-19	50 KLCN	1290	Storrs H-28	250	WCAC	660-1060 600
Fayetteville M-16	1000 KUOA	1390		200	"CAC	000
Fort Smith N-16	50 KFPW	1340	DELAWADE			
Hot Springs N-17	10000 KTHS	1040	DELAWARE			
Little Rock N-17	100 KGHI	1200	Wilmington J-26	250	WDEL	1120
	250 KGJF 1000 KLRA	890 1390		100	WILM	1420
Paragould M-18	100 KBTM	1200				
0		1200	DISTRICT OF	COLU	MBIA	
			Washington J-26	250	WMAL	630
CALIFORNIA			5 0	500	WRC	950
Berkeley J-2 Burbank M-3	100 KRE	1370		100	WOL	1310
Burbank M-3	500 KELW	780	FLORIDA			
Culver City M-3 El Centro N-4	250 KFVD	1000	Clearwater R-24	1000	WFLA	620
Fresno K-2	100 KXO	1500	Gainesville Q-24	5000	WRUF	620 830
Hayward J-1	100 KMJ 100 KZM	1210 1370	Jacksonville O-24	1000	WJAX	900
Hollywood M-3	1000 KFWB	950	Miami T-25	1000	WIOD	1300
-	5000 KNX	1050		1000	WQAM	560
Holy City K-1	100 KFQU	1420	Orlando R-24	500	WDBO	1120
Inglewood M-3	500 KMČS	1120	Pensacola Q-21 St. Petersburg S-24	500 1000	WCOA WSUN	1340
Long Beach M-3	1000 KFOX 1000 KGER	1250	Tampa R-24	1000	WDAE	620 1220
Los Angeles M-3	1000 KGER 1000 KECA	1360 1430		100	WMBR	1370
	1000 KFAC	1300	CEODOIA			1070
	5000 KFI	640	GEORGIA			
	500 KFSG	1120	Atlanta O-22	250	WGST	890
	1000 KGEF	1300	Augusta O 22	5000	WSB	740
	100 KGFJ 1000 KHJ	1200	Augusta O-23 Columbus O-22	100	WRDW	1500
	1000 KHJ 500 KMPC	900 710	Macon O-23	50 250	WRBL WMAZ	1200 890
	500 KMTR	570	Rome N-22	100	WFDV	1370
	500 KTM	780	Savannah O-24	500	WTOC	1260
Oakland J-1	250 KLS	1440	Thomasville Q-22	100	WQDX	1210
	500 KLX	880	Tifton P-23	100	WRBI	1310
Pasadena M-3	500 KROW 50 KPPC	930	Toccoa N-23	500	WTFI	1450
Sacramento J-2	100 KFBK	1210 1310				
San Bernardino M-3	100 KFXM	1210	HAWAII			
San Diego N-3	500 KFSD	600	Honolulu	500	KGMB	1320
	500 KGB	1330		1000	KGU	940
San Francisco J-1	1000 KFRC	610	IDAHO			
	500 KFWI 100 KGGC	930				
	100 KGGC 7500 KGO	1420 790	Boise G-5	1000	KIDO	1250
	100 KJBS	1070	Idaho Falls G-7 Nampa G-5	250	KID	1320
	5000 KPO	680	Pocatello H-7	50 250	KFXD KSEI	1420 900
	1000 KTAB	560	Sand Point D-6	100	KGKX	1420
	1000 KYA	1230	Twin Falls H-6	250	KTFI	1320
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ILLINOIS	Watts		Kcys.	Ottumwa J-17	100	WIAS KICK	1420 1420
Carthage J-18	50	WCAZ	1070	Red Oak J-16 Shenandoah J-16	100 500	KFNF	890
Chicago I-20	10000 10000	KFKX KYW	1020		500 1000	KMA KSCJ	930 1330
	500	WAAF	920	Sioux City I-15 Waterloo I-17	500	WMT	600
	25000 1500	WBBM WCFL	770 970				
	5000	WCHI	1490	KANSAS			
	100 100	WCRW WEDC	1210 1210	Dodge City L-13	$\begin{array}{c} 100 \\ 100 \end{array}$	KGNO WLBF	1210 1420
	50000	WENR	870	Kansas City K-16 Lawrence K-16	500	KFKU	1220
	500 25000	•WGES WGN	1360 720	Manhattan K-15	$1000 \\ 500$	WREN KSAC	1220 580
	1000	WIBO	560	Milford K-14	5000	KFBI	1050
	5000 25000	WJAZ WJBT	1490 770	Topeka K-16	$\begin{array}{c} 1000 \\ 1000 \end{array}$	WIBW KFH	580 1300
	100	WKBI	1420	Wichita L-15	1000		1000
	50000 5000	WLS WMAQ	870 670	KENTUCKY			
	5000	WMBI	1080	Covington K-22	5000	WCKY	1490
	= 500 100	WPCC WSBC	560 1210	Hopkinsville M-20 Louisville L-21	1000 10000	WFIW WHAS	940 820
Cicero I-20	100	WEHS	1420		100	WLAP	1200
Decatur K-19	100 100	WHFC WIBL	1420 1200	Paducah M-19	100	WPAD	1420
Galesburg J-18	100	W JBL WKBS	1310	LOUISIANA			
Harrisburg L-19 Joliet I-19	100 100	WEBQ WCLS	1210 1310	Monroe P-18	50	KMLB	1200
•	100	WKBB	1310	New Orleans R-19	100	WABZ	1200
La Salle J-19 Mooseheart I-19	100 20000	W JBC W J JD WMBD	1200 1130		1000 100	WDSU WJBO	1250 1420
Peoria Heights J-19	500	WMBD	1440		100	WJBO WJBW WSMB	1200
Quincy K-18 Rockford I-19	500 500	WTAD KFLV	$\begin{array}{c}1440\\1410\end{array}$		500 5000	WWL	1320 850
Rock Island I-18	100	WHBF	1210 1210	Shreveport P-17	50	KRMD	1310 1450
Springfield K-19	100 100	WCBS WTAX	1210		1000 100	KTBS KTSL	1310
Tuscola K-20 Urbana J-20	100	WDZ	1070 890		100	KWEA	1210 850
Urbana J-20 Zion I-20	250 5000	WILL WCBD	1080	MAINE	10000	кwкн	650
				Augusta F-28	100	WRDO	1370
				Bangor F-29	100	WABI	1200
INDIANA				Portland F-28	500 1000	WLBZ WCSH	620 940
Anderson J-21 Connersville K-21	100 100	WHBU WKBV	1210 1500	rorthand r ro			
Culver I-20	500	WCMA	1400	MARYLAND			
Evansville L-20 Fort Wayne J-21	500 100	WGBF WGL	630 1370	Baltimore J-26	10000	WBAL 2	760-1060 600
Fort wayne j-21	10000	wowo	1160		250 100	WCAO WCBM	1370
Gary I-20 Hammond I-20	1000 100	WJKS WWAE	1360 1200		500	WFBR WTBO	1270 1420
Indianapolis J-21	1000	WFBM	1230	Cumberland J-25	100	WIDU	1420
Lafayette J-20	500 500	WKBF WBAA	1400 1400	MASSACHUSET	TS		
La Porte 1-20	100	WRAF	1200	Boston G-28	500	WAAB	1410
Marion J-21 Muncie J-21	50 50	W JAK WLBC	1310 1310		1000 1000	WB1S WEEI	1230 590
Muncie J-21 South Bend I-20	500	WSBT	1230	1	1000	WHDH	830
Terre Haute K-20	100	WBOW	1310		100 1000	WLOE WNAC	1500 1230
					500	WSSH WSAR	1410
IOWA				Fall River H-28	250 100	WSAR	1450 1370
Ames I-17	5000	WOI	640	Needham G-28	500	WBSO	920
Boone I-17 Cedar Rapids I-18	100 100	KFGQ KWCR	1310 1310	New Bedford H-28 Springfield H-27	100 15000	WNBH WBZ-A	1310 990
Clarinda I-16	500	KSO	1380	Worcester G-28	100	WEPS	1200
Council Bluffs J-16 Davenport I-18	1000 5000	KOIL WOC	1260 1000		100 250	WORC WTAG	1200 580
Decorah H-18	50	KGCA	1270		200		200
Des Moines I-17	100 5000	KWLC WHO	1270 1000	MICHIGAN			
Fort Dodge I-16	100	KFJY WSUI	1310	Battle Creek I-21	50 500	WELL	1420 1410
Iowa City I-18 Marshalltown I-17	500 100	WSUI KFJB	880 1200	Bay City H-22 Berrien Springs I-20	1000	WBCM WKZO	590
Muscatine J-18	500 0	KTNT	1170	Calumet E-19	100	WHDF	1370
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Detroit H-22	50 WJBK 5000 WJR 100 WMBC	1370	NEVADA	Watts		Kcys
	5000 WJR 100 WMBC	750 1420	Las Vegas L-5	100	KGIX	1420
	1000 WWJ	920	Reno I-3	500	KOH	1380
East Lansing H-21	1000 WXYZ 1000 WKAR	1240 1040	NEW HANGDOD	IIDD		
Flint H-22	100 WFDF	1310	NEW HAMPSH			
Grand Rapids H-21	500 WASH 500 WOOD	1270 1270	Laconia G-28	100	WKAV	1310
Jackson I-21	100 WIBM	1370	NEW JERSEY			
Lapeer H-22 Ludington H-20	100 WMPC 50 WKBZ	1500	Asbury Park I-27	500	WCAP	1200
Marquette F-19 Royal Oak H-22	100 WBEO	1500 1310	Atlantic City J-27	5000	WPG	1280 1100
Royal Oak H-22	50 WEXL	1310	Camden I-26	500	WCAM	1280
MINNESOTA			Hackensack I-27 Jersey City I-27	250 300	WBMS WAAT	1450 940
				500	WHOM	1450
Fergus Falls F-15 Minneapolis G-17	100 KGDE 7500 WCCO	1200 810	Newark I-27	250 1000	WKBO WAAM	1450 1250
	1000 WDGY	1180		250	WGCP	1250
	500 WHDI	1180		250	WNJ	1450
Moorhead F-15	1000 WRHM 50 KGFK	1250 1500	Paterson I-27	$\frac{5000}{1000}$	WOR WODA	710 1250
Northfield G-17	1000 KFMX	1250	Red Bank I-27	100	WJBI WOAX	1210
St. Paul G-17	1000 WCAL 1000 WLB	1250	Trenton I-26 Zarephath I-27	500	WOAX	1280
	10000 KSTP	1250 1460	Darephath 1-2/	250	WAWZ	1350
MISSISSIPPI			NEW MEXICO			
Greenville O-18	100 WRBQ	1210	Albuquerque N-7	250	KGGM	1230
Gulfport Q-19 Hattlesburg Q-19	100 WGCM 10 WRBI	1210	Raton M-11	50	KGFL	1370
Hattlesburg Q-19 Jackson P-19		1370 1270	State College P-9	20000	KOB	1180
Meridian P-20	500 WCOC	880				
Tupelo N-20 Vicksburg P-18	100 WDIX 300 WQBC	1500 1360	NEW YORK			
	ooo nqbc	1300	Albany H-27	500	WOKO	1440
MISSOURI			Auburn H-25 Binghamton H-26	100 100	WMBO WNBF	1310 1500
Cp. Girardeau L-19	100 KFVS	1210	Brooklyn I-27	500	WBBC	1400
Columbia K-17 Grant City I-16	500 KFRU 50 KGIZ	630 1500		1000 500	WBBR	1300 1400
Grant City J-16 Jefferson City L-17	500 WOS	630		500	WCGU	1400
Joplin M-16 Kansas City K-16	100 WMBH	1420		500	WLTH	1400
Mansas City K-10	1000 KMBC 100 KWKC	950 1370		100 100	WMBQ WMIL	1500 1500
	1000 WDAF	610	Buffalo H-24	1000	WBEN	900
	500 WHB 1000 WOQ	860 1300		100 1000	WEBR WGR	1310 550
St. Joseph K-16	2500 KFEO	680		5000	WKBW	1480
St. Louis L-18	100 KGBX	1310		1000	WMAK	1040
c. Douis L-10	500 KFUO 100 KFWF	550 1200	Canton F-26	50 500	WSVS WCAD	1370 1220
	50000 KMOX	1090	Freeport I-27	100	WGBB	1210
	500 KSD 1000 KWK	550 1350	Glens Falls G-27 Ithaca H-25	50 1000	WBGF WEAI	1370
	1000 WEW	760		50	WLCI	1270 1210
MONITANIA	100 WIL	1200	Jamaica H-27	100	WMRJ	1210
MONTANA			Jamestown H-24 Long Island City I-27	50 100	WOCĽ WLBX	1210 1500
Billings F-9 Butte F-7	1000 KGHL 500 KGIR	950 1360	Long Island City I-27 New York City I-27	5000	WABC	860
Great Falls E-8	1000 KFBB	1280		250 5000	WBNX	1350
Kalispell D-7	100 KGEZ	1310			WBOQ WCDA	860 1350
Aissoula E-7 Volf Point E-11	100 KGVO 100 KGCX	1420 1310		50000	WEAF	660
NEBRASKA	in noon			500	WEVD WGBS	1300 1180
Clay Center J-14	1000 KMMJ	740		1000	WHAP	1300
incoln J-15	5000 KFAB	740 770		250	WHN	1010
	100 KFOR	1210		5000	WJŻ WLWL	760 1100
orfolk I-15	500 WCAJ 1000 WIAG	590 1060		200	WINCA	570
lorth Platte J-13	500 KGNF	1430		250 500	WMSG WNYC	1350 570
maha J-15	500 WAAW	660		1000	wov	1130
	1000 10010	E00 II				
avenna J-14	1000 WOW 100 KGFW	590 1310			WPAP	1010
avenna J-14 cottsbluff I-11 'ork J-15	1000 WOW	590 1310 1500 930		500	WPAP WPCH WQAO WRNY	

		-					
Patchogue I-27	100	WPOE	1370	Marshfield F-1	100 100	KOOS KMED	1370 1310
Rochester G-25	5000 500	WHAM WHEC	1150 1440	Medford G-2 Portland E-3	5000	KEX	1180
Saranac Lake F-26	50	WNBZ	1290 790		100 500	KBPS KFJR	1420 1300
Schenectady G-27 Syracuse G-25	50000 1000	WGY WFBL	1360		1000	KGW	620
Syracuse G-20	250	WMAC	570		1000 500	KOIN KTBR	940 1300
Tree: C 27	250 500	WSYR WHAZ	570 1300		500	KWJJ	1060
Troy G-27 Tupper Lake F-26	100	WHDL	1420		100	KXL	1420
Utica G-26	100 100	WIBX WWRL	1200 1500	PENNSYLVANIA	ł		
Woodside I-27 Yonkers I-27	100	WCOH	1210	Allentown I-26	250	WCBA	1440
				A1 T 25	250 100	WSAN WFBG	1440 1310
NORTH CAROL	INA			Altoona I-25 Carbondale H-26	10	WNBW	1200
Asheville M-23	1000	WWNC	570	Elkins Park I-26	50 100	WIBG WEDH	930 1420
Charlotte M-24	5000	WBT	1080	Erie H-24 Grove City I-24	100	WSAJ	1310
Gastonia M-24 Greensboro M-24	100 500	WSOC WBIG	1210 1440	Harrisburg I-25	500	WBAK WCOD	1430 1200
Raleigh M-25	1000	WPTF	680		100 500	WHP	1430
Wilmington N-26 Winston-Salem M-24	100 100	WRAM WSJS	1370 1310	Johnstown J-24	100	WIAC	1310
winston-Salem M-24	100	11000		Lancaster I-26	100 100	WGAL WK IC	1310 1200
NORTH DAKO	ГΔ			Lewisburg I-26	100	WIBU	1210
Bismarck F-13	1000	KFYR	550	Oil City I-24 Philadelphia I-26	500 10000	WLBW WCAU	1260 1170
Devils Lake E-14	100	KDLR	1210	Prinadelprina 1-20	100	WELK	1370
Fargo F-15	1000 100	WDAY KEIM	940 1370		500 500	WFAN WFI	610 560
Grand Forks E-15 Mandan F-13	100	KF JM KGCU	1200		100	WHAT	1310
Minot E-13	100	KLPM	1420		500 500	WIP WLIT	610 560
					100	WPEN	1500
OHIO	1000	WADC	1320		250	WRAX WTEL	1020 1310
Akron I-23 Canton I-23	1000	WHBC	1200	Pittsburgh J-24	100 50000	KDKA	980
Cincinnati K-22	100 1000	WFBE WKRC	1200 550		500	KQV WCAE	1380 1220
	50000	WLW	700		$1000 \\ 1000$	WIAS	1290
	500	WSAI WGAR	1330 1450	_	100	W JAS WWSW	1500 1310
Cleveland I-23	500 1000	WHK	1390	Reading I-26 Scranton H-26	100 250	WRAW WGBI	880
	500	WJAY	610		250	WQAN WPSC	880
Columbus J-22	50000 500	WJAY WTAM WAIU	1070 640	State College I-25 Washington J-24	500 100	WNBO	1230 1200
Columbus J-22	500	WCAH	1430	Wilkes-Barre I-26	100	WBAX	1210
	750 100	WEAO WSEN	570 1210	Williamsport I-25	100 100	WBRE WRAK	1310 1370
Dayton J-22	200	WSMK	1380	Williamspore 1-25	100		107 0
Mansfield J-22	100 100	WJW WHBD	1210 1370	PORTO RICO			
Mount Orab K-22 Steubenville J-23	50	WIBR	1420	San Juan W-34	500	WKAQ	890
Toledo I-22	500 500	WSPD WKBN	1340 570				
Youngstown I-23 Zanesville J-23	100	WALR	1210	RHODE ISLAN	D		
-				Newport H-28	100	WMBA	1500
OKLAHOMA				Pawtucket H-28 Providence H-28	100 100	WPAW WDWF	1210 1210
Chickasha N-14	250	KOCW	1400	Trovidence in 20	250	WEAN	780
Elk City N-13 Enid M-14	100 100	KGMP KCRC	1210 1370		250 100	WJAR WLSI	890 1210
Norman N-15	500	WNAD	1010				
Oklahoma N-15	5000 100	KFJF KFXR	1480 1310	SOUTH CAROI			
	100	KGFG	1370	Charleston O-25	500 500	WCSC W1S	1360 1010
Damas City M 15	1000 100	WKY WBBZ	900 1200	Columbia N-24 Spartanburg N-23	100		1420
Ponca City M-15 S. Coffeyville M-15	500	KGGF	1010		TA		
Shawnee N-15	100 5000		1420 1140	SOUTH DAKO		VEDV	EEO
Tulsa M-15	5000	N,00	1140	Brookings H-15 Huron H-14	500 100		550 1200
OREGON				II Mitchell H-14	100	KGDA	1370
Astoria D-2	100		1370 550	Pierre G-13 Rapid City H-12	200 100		580 1200
Corvallis E-2 Eugene F-2	1000 100		1420	Sioux Falls H-15	2000		1110
	-						

Vermillion I-15	500 KUSD	890	Petersburg L-26	100 WLBG	1200
Watertown G-15	100 KGCR	1210	Richmond K-26	100 WLBG 100 WBBL	1200 1210
Yankton I-15	1000 WNAX	570		100 WMBG	1210
TENNESSEE			Roanoke L-24	5000 WRVA 250 WDBJ	1110
Bristol L-23	100 WOPI	1500	Roanoke D-24	250 WRBX	930 1410
Chattanooga N-21	1000 WDOD	1500 1280	WASHINGTON		- 110
Knoxville M-22	50 WFBC	1200	Aberdeen D-2	75 KXRO	1310
	1000 WNOX 100 WROL	560	Bellingham C-3	100 KVOS	1200
Memphis N-19	500 WGBC	1310 1430	Everett C-3 Lacey D-3	50 KFBL 10 KGY	1370 1200
• • •	100 WHBO	1370	Pullman E-5	1000 KWSC	1220
	500 WMC	780	Seattle C-3	100 KFOW	1420
	500 WNBR 500 WREC	1430 600		5000 KJR 1000 KOL	970
Nashville M-21	5000 WLAC	1470	1	1000 KOMO	1270 920
Springfield M-20	5000 WSM	650		100 KPCB	650
Union City M-19	100 WSIX 100 WOBT	1210 1310		50 KRSC 1000 KTW	1120
S	IN WORL	1310		1000 KTW 100 KVL	1270 1370
TEXAS				500 KXA	570
Abilene P-13	100 KFYO	1420	Spokane D-5	100 KFIO	1120
Amarillo N-12	1000 KGRS	1410		1000 KFPY 5000 KGA	1340 1470
Austin Q-14	1000 WDAG 100 KUT	1410 1500	i	1000 KHO	590
Beaumont R-17	500 KFDM	560	Tacoma D-3	500 KMŌ	860
Brownsville U-15	500 KWWG	1260	Walla Walla E-5	1000 KVI 100 KUJ	760 1370
College Sta. Q-15 Corpus Christi S-14	500 WTAW 100 KGFI	1120 1500	Wenatchee D-4	50 KPO	1500
Dallas P-15	10000 KRLD	1040	Yakima D-4	50 KIT	1310
	50000 WFAA	800	WEST VIRGINI	Α	
Dublin P-14	500 WRR 100 KFPL	1280	Bluefield L-24	250 WHIS	1410
El Paso P-9	100 KTSM	1310 1310	Charleston K-23	250 WOBU	$ \begin{array}{r} 1410 \\ 580 \end{array} $
E- + W L D + F	100 WDAH	1310	Fairmont J-24	250 WMMN	890
Fort Worth P-15	100 KFJZ 1000 KTAT	1370	Huntington K-23 Wheeling J-24	250 WSAZ 5000 WWVA	$580 \\ 1160$
	10000 WBAP	1240 800		JUUU WWWA	1100
Jalveston R-16	100 KFLX	1370	WISCONSIN		
Greenville O-15	500 KFUL 15 KFPM	1290 1310	Eau Claire G-18	1000 WTAQ	1330
Harlingen T-14	500 KRGV	1260	Fond du Lac H-19 Green Bay G-19	100 KFIZ 100 WHBY	1420 1200
Houston R-16	1000 KPRC	920	Janesville I-19	100 WCLO	1200
	100 KTLC 500 KTRH	1310	La Crosse H-18	1000 WKBH	1380
	500 KTRH 100 KXYZ	1120 1420	Madison H-19	750 WHA 500 WIBA	940 1280
San Angelo Q-13	100 KGKL	1370		250 WISJ	780
San Antonio R-14	100 KMAC 100 KONO	1370 1370	Manitowoc H-20	100 WOMT	1210
	100 KTAP	1420	Milwaukee H-19	250 WHAD 250 WISN	1120 1120
	1000 KTSA	1290		1000 WTMJ	620
Tyler P-16	50000 WOAI 100 KGKB	1190	Poynette H-19 Racine I-20	100 WIBU	1210
Waco Q-15	1000 WACO	1500	Sheboygan H-20	100 WRJN 500 WHBL	1370 1410
Wichita Falls O-14	250 KGKO	570	Stevens Pt. G-19	2000 WLBL	900
			Superior F-17	1000 WEBC	1290
UTAH Ogden I-7	500 VI O	1.00	WYOMING		
Salt Lake City I-7	500 KLO 1000 KDYL	1400 1290	Casper H-10	100 KDFN	1210
	5000 KSL	1130	Casper II-IV	100 KDFIN	1210
VERMONT			CAN	ADA	
Burlington F-27 Rutland G-27	100 WCAX 100 WSYB	1200 1500			
St. Albans F-27	100 WODM	1370	ALBERTA		
Springfield G-27	10 WNBX	1200	Calgary B-7	500 CFAC	690
VIRGINIA				500 CFCN 500 CHCA	985 690
	10000 10 100			500 CJCJ	690
Alexandria K-26 Arlington I-25	10000 WJSV 1000 NAA	1460 690	Educantan A R	500 CNRC	690
Arlington J-25 Danville L-25	100 WBTM	1370	Edmonton A-8	250 CHMA 500 CJCA	580 930
Emory L-23	500 WEHC	1350	L	500 CKUA	580
Lynchburg L-25 Newport News L-26	100 WLVA 100 WGH	1370	Lethbridge C-8	50 CJOC	1120
Norfolk L-26	500 WPOR	1310 780	Red Deer A-8	1000 CHCT 1000 CKLC	840 840
	500 WTAR	780		1000 CNRD	840 840

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BRITISH	Watts	Kcys.	SASKATCHEWA	N	
COLUMBIA			Fleming C-13 Moose Jaw C-11	500 CJRW 500 CJRM	665
Chilliwack B-3	100 CHWK	665	Moose Jaw C-11 Regina C-12	500 CJRM 500 CHWC	665 960
Kamloops B-5 Sea Island	100 CFJC 500 CJOR	1120 1210	Regina C-12	500 CIBR	960
Vancouver B-3	50 CHLS	730		500 ČKCK 500 CNRR	960 960
	50 CKCD 50 CKFC	730 730	Saskatoon B-11	500 CFOC	910
	50 CKMO	730	Yorkton B-13	500 ČNŘŠ 500 ČJGX	910 630
	100 CKWX 500 CNRV	730 1030	TORREON B-13	JUU CJUA	000
Victoria C-3	500 CFCT	630	1141771		
			HAITI		
MANITOBA Brandon D-14	500 CKX	540	Port au Prince X-30	1000 HHK	920
Winnipeg D-15	5000 CKY	780			
	5000 CNRW	780	MEXICO		
NEW BRUNSW	ICK			350 XFC	805
Fredericton D-29	500 CFNB	1210	Aguascalientes W-10 Chihuahua, Chih. R-9	250 XFF	915
Moncton D-30	500 CNRA 500 CFBO	630 890	Guadalajara, Jal. X-10	101 XEA 101 XEJ	1200 857
St. John D-30	500 CFBO	090	Juarez P-9	101 XEJ 1000 XEO	1015
NEWFOUNDLA St. Johns A-35	ND 500 8WMC	682	Laredo, N. L. S-13	101 XEFE 2500 XEP	980 1400
÷			Merida, Yuc. X-19 Mexico City Y-13	105 XEY 1000 XEB	547 1030
NOVA SCOTIA	10000 VAS	685	Mickleo City 1-10	250 XEFA	1250
Glace Bay C-32 Halifax E-31	500 CHNS	910		101 XEK 1000 XEN	990 711
Sydney C-32	500 CNRH 50 CJCB	910 880		5000 XEO	940 674
Wolfville D-31	50 CKIC	1010		101 XER 500 XETA	1140
ONTARIO				100 XETO 2000 XETY	1485 1300
Chatham H-22	100 CFCO	1210		500 XEX	1210
Cobalt E-23 Hamilton H-24	15 CKMC 10 CHCS	1210 1120		5000 XEW 500 XEZ	780 588
Hamilton 11-24	50 CHML	880		2000 XFG	638
Kingston G-25	50 CKOC 500 CFRC	1120 930		1000 XF1 500 XFX	818 860
London H-23	5000 CJGC	910	Monterrey, N. L. U-13	5000 XEH	1080
North Bay	500 CNRL 50 CFCH	910 1200	Morelia, Mich. Y-12	500 XET 101 XEI	6 30 1000
Ottawa F-25	100 CKCO	890	II Oaxaca, Oak. AA-14	105 XEE	1132
Port Arthur E-19	500 CNRO 50 CKPR	600 890	Puebla Z-13 Revnosa Tams T-14	101 XEV 10000 XED	1034 961
Prescott F-25	50 CFLC	1010	Reynosa, Tams. T-14 Saltillo, Coah. U-12 Tampico, Tams. W-14	10 XEL	1091
Preston H-23 Toronto G-24	25 CKPC 500 CFCA	1210 840	Tampico, Tams. W-14	500 XEM 500 XES	730 890
	500 CFCL	580	Toluca. Y-12	50 XEC	1333
	5000 CFRB 500 CKCL	960 580	Veracruz, Ver. Z-14	500 XETF 101 XEU	680 800
	5000 CKGW	690		101 7650	000
	500 CKNC 500 CNRT	580 840	CUDA		
	5000 CNRX	960	CUBA		
Watarlag C 33	5000 CPRY	690 1010	Cardenas W-24	30 CMGE	1375
Waterloo G-23 Wingham G-23	50 CKCR 25 10-BP	1200	Camaguey W-26	15 CMJC 20 CMJE	1321 856
PRINCE EDWA	PD ISLAND		Ciego de Avila W-26	20 CM IB	1276
Charlottetown C-31	250 CFCY	960	Cienfuegos W-25	200 CMHA 40 CMHJ	1154 645
	100 CHCK	960	Colon W-24	100 CMGA	834
Summerside C-31	100 CHGS	1120	Havana W-23	50 CMBA 150 CMBC	1345 965
QUBBEC				150 CMBD	965
Montreal E-26	1650 CFCF 5000 CHYC	1030 730		7.5 CMBF 150 CMBG 30 CMBI	1345 1070
	5000 CKAC	730		30 CMBI	1405
Outshee D 27	5000 CNRM	730 645		15 CMBJ 15 CMBK	1285 1405
Quebec D-27	22 CKCI	880		15 CMBL	1500
	50 CKCV	880		15 CMBM 30 CMBN	1285 1405
	50 CNRQ	880			1 100
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CFAC

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KECA

CFAC 690 Calgary, Alta.	CJRM 665 Moose Jaw, Sask.	CMBQ 1405	CMKA 1450
CFBO 890	CJRW 665	Havana, Cuba CMBR 1500	Santiago, Cuba CMKB 1200
St. John, N. B.	Fleming, Sask	Havana, Cuba	Santiago, Cuba
CFCA 840 Toronto, Ont.	CKAC 730 Montreal, Que.	CMBS 790	CMKC 1034
CFCF 1030	CKCD 730	Havana, Cuba CMBT 1070	Santiago, Cuba
Montreal, Que.	Vancouver, B.C.	Havana, Cuba	CMKD 1100 Santiago, Cuba
CFCH 1200 North Bay, Ont.	CKCI 880	CMBW 1010	CMKE 1249
CFCL 580	Quebec, Que.	Havana, Cuba CMBX 1405	Santiago, Cuba
Torento, Ont.	Regina, Sask.	Havana, Cuba	CMKF 1363 Holguin, Cuba
CFCN 985 Calgary, Alta.	CKCL 580	CMBY 1405	CMKG 1176
CTCO 1210	Toronto, Ont. CKCO 890	Havana, Cuba CMBZ 1010	Santiago, Cuba
Chatham, Ont.	Ottawa, Ont.	Havana, Cuba	CMKH 1327 Santiago, Cuba
CFCT 630 Victoria, B. C.	CKCR 1010	CMC 840	CMQ 1150
CFCY 960	Waterloo, Ont. CKCV 880	Havana, Cuba CMCA 1225	Havana, Cuba
Ch'lottet'n,P.E.I.	Quebec, Que.	CMCA 1225 Havana, Cuba	CMW 588 Havana, Cuba
CFJC 1120	CKFC 730	CMCB 1070	CMX 890
Kamloops, B. C. CFLC 1010	CKGW 690	Havana, Cuba	Havana, Cuba
Prescott, Ont.	Toronto, Ont.	CMCD 1225 Havana, Cuba	CNRA 630 Moncton, N.B.
CFNB 1210	CKIC 1010	CMCF 890	CNRC 690
Fredericton, N.B. CFQC 910	Wolfville, N.S. CKLC 840	Havana, Cuba	Calgary, Alta.
Saskatoon, Sask.	CKLC 840 Red Deer, Alta.	CMCG 1285 Havana, Cuba	CNRD 840
CFRB 960	CKMC 1210	CMCH 1285	Red Deer, Alta. CNRH 910
Toronto, Ont. CFRC 930	Cobalt, Ont.	Havana, Cuba	Halifax, N.S.
Kingston, Ont.	CKMO 730 Vancouver, B.C.	CMCM 1500	CNRL 910
Kingston, Ont. CHCA 690	CKNC 580	Havana, Cuba CMCN 1225	London, Ont. CNRM 730
Calgary, Alta. CHCK 960	Toronto, Ont.	Havana, Cuba	Montreal, Que.
Ch'lottet'n.P.E.I.	CKOC 1120 Hamilton, Ont.	CMCO 660	CNRO 600
CHCS 1120	CKPC 1210	Havana, Cuba CMCQ 1150	Ottawa, Ont. CNRQ 880
Hamilton, Ont.	Preston, Ont.	Havana, Cuba	CNRQ 880 Quebec, Que.
CHCT 840 Red Deer, Alta.	CKPR 890 Port Arthur, Ont.	CMCR 1285	CNRR 960
CHGS 1120	CKUA 580	Havana, Cuba CMCT 1500	Regina, Sask. CNRS 910
Sum'rside, P.E.I.	Edmonton, Alta.	Havana, Cuba	CNRS 910 Saskatoon, Sask.
CHLS 730 Vancouver, B.C.	CKWX 730	CMCU 1345	CNRT 840
CHMA 580	Vancouver, B.C.	Havana, Cuba CMCY 1345	Toronto, Ont.
Edmonton, Alta.	Brandon, Man.	Havana, Cuba	CNRV 1030 Vancouver, B.C.
CHML 880 Hamilton, Ont.	CKY 780	CMGA 834	CNRW 780
CHNS 910	Winnipeg, Man. CMAB 1249	Colon, Cuba CMGB 1185	Winnipeg, Man.
Halifax, N.S.	Pinar del Rio, Cu.	CMGB 1185 Matanzas, Cuba	CNRX 960 Toronto, Ont.
CHRC 645	CMAC 1375	CMGD 1140	CPRY 690
Quebec, Que. CHWC 960	Pinar del Rio, Cu. CMBA 1345	Matanzas, Cuba CMGE 1375	Toronto, Ont.
Regina, Sask.	Havana, Cuba	Cardenas, Cuba	HHK 920 Port au Prince, H.
CHWK 665 Chilliwack, B.C.	CMBC 965	CMGF 977	KBPS 1420
CHYC 730	Havana, Cuba CMBD 965	Matanzas, Cuba CMGH 780	Portland, Ore.
Montreal, Que.	Havana, Cuba	CMGH 780 Matanzas, Cuba	KBTM 1200 Paragould, Ark.
JBR 960	CMBF 1345	CMHA 1154	KCRC 1370
Regina, Sask.	Havana, Cuba CMBG 1070	Cienfuegos, Cuba	Enid, Okla.
Edmonton, Alta.	Havana, Cuba	CMHC 790 Tuinucu, Cuba	KCRJ 1310
CJCB 880	CMBI 1405	CMHI 1110	Jerome, Ariz. KDB 1500
yndey, N.S. CJCJ 690	Havana, Cuba CMBJ 1285	Santa Clara, Cu.	S. Barbara, Cal.
Calgary, Alta.	Havana, Cuba	CMHJ 645 Cienfuegos, Cuba	KDFN 1210
CJGC 910	CMBK 1405	CMJB 1276	Casper, Wyo. KDKA 980
ondon, Ont. CJGX 630	Havana, Cuba CMBL 1500	Ciego de Avila	Pittsburgh, Pa.
orkton, Sask.	Havana, Cuba	CMJC 1321 Camaguey, Cuba	KDLR 1210
JOC 1120	CMBM 1285	CMJE 856	Devils Lake, N.D. KDYL 1290
ethbridge, Alta.	Havana, Cuba	Camaguey, Cuba	Salt Lake City
ea Island, B.C.	CMBN 1405 Havana, Cuba	CMK 730 Havana, Cuba	KECA 1430
		Inuvana, Ouba	Los Angeles, Cal.
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KELW

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KOMO

ELW 780 KFQD 1230 KGEF 1300 LGY 1200 EXA. 1180 KGEK 1200 KGEK 1200 KHJ mathematical stress of the				
REX 1180 KPQU 1420 KGEK 1200 KHJ 900 KFAB 770 KPQU 1420 KGEK 1200 KGEK 1200 KFAB 770 KPQU 1420 KGEK 1200 KGEK 1200 KFAB 770 KFBC 610 KGEK 1200 KGEK 1200 Great Fls., Mont. Columbia, Mo. KGEK 1200 KGEK 1310 KID 1224 Great KIB KIB KGEK 1200 KGEK 1310 KID 1242 Searamento, Cal. KAB KGEK 1200 KGEK 1200 KIL 1310 Searamento, Cal. KFUU 1200 KGEK 1200 KAB Seattle, Wash. KFDV S50 KFUO 500 KGEK 1200 KGEK <th>KELW 780</th> <th></th> <th></th> <th></th>	KELW 780			
Parihand, Ore- KFAB. Holy City, Cal. Yuma, Colo. Los Angeles, Cal. KHQ. Spackan, Cal. Spa	Burbank, Cal.		Los Angeles, Cal.	Lacey, Wash.
KFAB 770 KFQW 1420 KGEE 1360 KHG Spokan, Vaab Spokan, Vaab KFAC 1200 KFKC 630 KGEZ 1200 Red Oak, Iowa, KFKU 630 KFBU 1200 KFKU 630 KGEZ 1310 KID 1320 Great Fla, Mont. KFBU 630 KGEF 1420 KIDO 1250 Milford, Kans. KFSD 600 KGFF 1420 KiBU 1250 KFBU 1370 KFUL 1220 Kialabaa 1200 KJB 1200 KPBU 1370 KFUL 1220 KGFI 1200 KJB 1200 1200 1200 1200 KJB 1200 1200 1200 1200 1200 1200 1200 1200 12			KGEK 1200	
Lincoln, Nebr. Seartie, Wash. Long Beach, Cal. Spokane, Wash. KPRC (1300) KFRC (100) Ft. Morgan, Colo. Rick (100) KPBU (1200) San Fneisco, Cal. Ft. Morgan, Colo. Rick (100) KPBU (1300) KFRC (1300) Kick (1200) Rick (100) KPBU (1300) Krst (110) Kick (110) Rick (110) KFRC (1300) Krst (110) Kick (110) Rick (110) Krst (110) Kash (110) Kick (110) Rick (110) Rick (110) Krst (110) Kash (110) Kick (110) Rick (110) Rick (110) Rick (110) Krst (110) Kick (110) Kick (110) Rick (110) Rick (110) Rick (110) Krst (110) Kick (110) Kick (110) Rick (110) Rick (110) Rick (110) Krst (110) Kick (110) Kick (110) Kick (110) Rick (110) Rick (110) Krst (110) Kick (110) Kick (110) Rick (110) Rick (110) Rick (110) Krst (110) Kick (110) Rick (110) Rick (110) <td>KFAR 770</td> <td>KFOW 1420</td> <td>KGER 1360</td> <td>KHQ 590</td>	KFAR 770	KFOW 1420	KGER 1360	KHQ 590
Los Angeles, Cal. San F neisco, Cal. Ft. Morgan, Colo. Red Oak, Iowa. Great Fis., Mont. Columbis, Mo. KGEZ 1101 HiD 70, 200 Great Fis., Mont. Columbis, Mo. KGEZ 1101 HiD 70, 200 KPBord, KN, Son Diego, Cal. Shawnee, Okla. Boiae, Idah Saramento, Cal. Shawnee, Okla. Boiae, Idah KPBU Auk. Cal. Shawnee, Okla. Boiae, Idah KPBU Auk. Cal. Shawnee, Okla. Shawnee, Okla. Boiae, Idah KPBU Auk. Cal. Shawnee, Okla. Shawnee, Okla.<	Lincoln, Nebr.	Seattle, Wash.	Long Beach, Cal.	Spokane, Wash.
KFBB T280 KFR U 630 KGEZ 1310 KID 1320 Great Fla, Mont. KSPD 600 Scarger Kalispell, Mont. KID 1320 KPBI 1060 Karsen Kalispell, Mont. KID KID 1320 Sareamento, Cal. KPBL 1370 KGFG 6370 KID 780 Everett, Wash. KFUL 1290 Corpus Ch'sti, Tex. San Preisco, Cal. KJB 170 RYDM 560 KUU 1200 KGFI 1370 KGFI 1370 RYDM 560 KUP 1310 KGFU 1370 KLU 1400 1420 KFPD 560 KVUP 1310 KGFU 1370 KLW 1420 Sat. Joseph, Mo. KUP 1400 KLS 1440 1420 Sat. Joseph, Mo. KUP 1420 Sat. Joseph, Mo. KLS 1440 Sat. Joseph, Mo. KLS 1440 Sat. Joseph, Mo. KLS 1440 Sat. Joseph, Mo.	KFAC 1300 [KFRC 610	KGEW 1200	
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Fort Dodge, Ia. KFJZBismarck, N.D. KGALittle Rock, Ark. KGKBClay Ctr., Nebr. KMOKFJZ1370KGA1470KGKB1500Tacoma, Wash.KFKA880KGAR1370KGKLKGKD1300Greeley, Colo. KFKU1220KGB1330KGKL1370KMOX1090Lawrence, Kans. KFKXKGBU900KGKX1420KMPC710Lawrence, Kans. KFKXKGBU900KGKX1420KMPC710Chicago, Ill. KFLYKGBX1310San Diego, Cal. Ktethikan, Al'ka.Sand Point, Ida. Sochtsbuff, Nebr.Kos Angeles, Cal. KogKYKMTR570KFLX1370 Galveston, Tex.KGBX1320KoA83060KFPK1300KGCR1210KGCA1270Corvallis, Ore.KFNF890 Sheanadoah, Ia. KFORKGCR1210KGCR1480KOACKFOR1210 Lincoln, Nebr.KGCX1310 KGCXNo. Platte, Neb.KOH1380KFOR1210 Mitchell, S. D. KGDAKGDA1370 Mitchell, S. D.KGRS1410 KOIL1260KFPH1310 Greenville, Texas KGDMKGDA1370 Mitchell, S. D.KGRS1410 KGVKOIL1260KFPH1310 Greenville, Texas KGDMKGDM1000 KGWKGW1420 KOILKOIL1260KFPW1340 Greenville, Texas KGDMKGDM100 KGWKGW1260 	Portland, Ore.	KEVD 550	KGIF 890	KMMJ 740
KF JZ 1370 KGA 1470 KGKB 1500 KMO 860 Ft. Worth, Tex. Spokane, Wash. KGAR 1370 Tacoma, Wash. KMOX 1090 Greeley, Colo. KGB 1330 KGKU San Angelo, Tex. St. Louis, Mo. KMOX 1090 Lawrence, Kans. San Diego, Cal. Wichta Fils., Tex KogKV 1420 KMTR 570 Chicago, Ill. KGBU 900 KGKX 1420 KMTR 570 KFLV 1410 KGBU 330 KGKV 1500 KNTX 1050 Rockford, Ill. KGBZ 930 KGKGK 1500 KNX 1050 KFLX 1370 Galveston, Tex. York, Nebr. KGMB 1320 KOA 830 KFPX 1250 N'thfield, Minn. KGCA 1270 Ek City, Okla. Corvallis, Ore. KFPK 890 StacCa 1210 KGNF 1430 State Coll., N.M. KFPK 890		Bismarck, N.D.	Little Rock, Ark.	Clay Ctr., Nebr.
KFKA 880 Greeley, Colo. KGAR 1370 Tueson, Ariz. KGRL 1370 St. Louis, Mo. KFKU 1220 Lawrence, Kans. KGBU 1330 San Diego, Cal. KGKC 570 Wichita Fils., Tex. KMPC 710 Los Angeles, Cal. KFKX 1020 KGBU 900 KGKX 1420 KMPC 710 Chicago, Ill. KGBU 900 KGKX 1420 KMTR 570 RFLY 1410 KGBX 1310 Sand Point, Ida. Los Angeles, Cal. KNX KFLX 1370 Galveston, Tex. York, Nebr. Honolulu, T. H. Los Angeles, Cal. KFNX 1250 KGBZ 930 KGMB 1320 KOA 830 Galveston, Tex. York, Nebr. Honolulu, T. H. Denver, Colo. KGMB 180 KFNF 890 KGCR 1210 KGCN 1210 KOCV 1400 Lincoln, Nebr. KGCX 1370 Madan, N.D. Dodge City, Kans. Chickasha, Okia. KFPL 1310 Macdan, A	KFJZ 1370	KGA 1470	KGKB_ 1500	KMO 860
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KFKU 1220 KGB 1330 KGKO 570 Los Angeles, Cal. Lawrence, Kans. KGBU 900 Kichitar, Jirka. Los Angeles, Cal. KMPC 710 KFKX 1020 KGBU 900 KGKX 1420 Los Angeles, Cal. KFLV 1410 KGBX 1310 KGKY 1500 Los Angeles, Cal. KFLX 1370 Galveston, Tez. KGBZ 930 KGMBU 1320 KFLX 1250 KGBZ 930 KGMB 1320 KOA 830 Galveston, Tez. KGCA 1270 KGCM 1210 KOA 830 Shenandoah, Ta. KGCR 1210 KGCR 1210 KOAC 550 KFPN 890 Watertown, S.D. KGNO 1210 KOCW 1400 Lincoln, Nebr. KGCX 1310 KGCX 1370 KGNO 1210 Lincoln, Nebr. KGCA 1370 KGCX 1370 KOH 1380			Sun Angelo Tex	
Lawrence, Kans. KFPK X 1020San Diego, Cal. KGBU 900Wichita Fils., Tex KGK X 1420Los Angeles, Cal. KMTR 570KFLV 1410 Rockford, Ill. KFLX 1370 Galveston, Tex. KFPK 1210KGBU 300 KGCA 1270Wichita Fils., Tex KGBX 1420KMTR 570 Los Angeles, Cal. KKNX 1050KFLX 1370 Galveston, Tex. KFDX 1250 KFNK 1250KGBZ 930 KGCA 1270 Mot. KGCA 1270 KGCA 1270KGKY 1500 KGMB 1320 Elk City, Okla. 	KFKII 1220	KGB 1330	IKGKO 570 I I	KMPC 710
KFKX 1020 KGBU 900 KGKX 1420 KMTR 570 Chicago, Ili, Ketchikan, Al'ka, Sand Point, Ida. Los Angeles, Cal. Los Angeles, Cal. KFLV 1410 KGBX 1310 KGKY 1500 KNX 1050 Rockford, Ill. KGBX 1370 KGBZ 930 KGMB 1320 Los Angeles, Cal. KFLX 1370 KGBZ 930 KGMP 1210 Los Angeles, Cal. KFMX 1250 KGCA 1270 KGMP 1210 KOAC 550 N'thfield, Minn. KGCA 1270 KGNP 1430 KOB 1180 KFPK 890 Marctown, S.D. Elk City, Okla. Corvallis, Ore. KOCW 400 Lincoin, Nebr. KGCX 1210 KGNO 1210 KOCW 1400 Chickasha, Okla. KFPX 1310 Woif P't, Mont. San F'ncisco, Cal. KOIL 1260 Council Bluffs, Ia. KFPY 1310		San Diego, Cal.	Wichita Fils., Tex	Los Angeles, Cal.
KFLV 1410 KGBX 1310 KGKY 1500 KNX 1050 Rockford, III. KGBZ 930 St. Joseph, Mo. KGBZ 930 Honolulu, T. H. Los Angeles, Cal. KOA 830 Galveston, Tex. KGCA 1270 KGMB 1320 KOA 830 York, Nebr. KGCA 1270 KGMP 1210 KOA Soctisbluff, Nebr. KOA 500	KFKX 1020	I KGBU 900	KGKX 1420	KMTR 570
Rockford, Ill. St. Joseph, Mo. Scottsbluff, Nebr. Los Angeles, Cal. KFLX 1370 Galveston, Tex. KGBZ 930 KcGMB 1320 KoA 830 Galveston, Tex. KFMX 1250 York, Nebr. Honolulu, T. H. Benver, Colo. KoAC 550 KYMX 1250 KGCA 1210 KOAC 550 KFPMX 1210 KGCR 1210 KOAC 550 KFPN 890 Beenandoah, Ia. KGCR 1210 KOB State Coll., N.M. KFOR 1210 KGCU 1200 KGNF 1430 KoCW 1400 Lincoln, Nebr. Mandan, N.D. Dodge City, Kans. Chickasha, Okia. KGDK 180 KFPX 1310 KGDA 1370 KoH San Frincisco, Cal. Reno, Nevada KFPK 1310 KGDA 1370 KGRS KOIL 1260 Dublin, Texas KGDM 1370 KGIL 1260 Council Bluffs, Ia.	Chicago, Ill.	KGBY 1310	KGKY 1500	KNX 1050
KFLX 1370 Galveston, Tex. KGBZ 930 York, Nebr. KGMB 1320 Honolulu, T. H. KOA 830 Denver, Colo. KFPM X 1250 York, Nebr. Honolulu, T. H. Denver, Colo. KGMB 1200 KOAC 550 N'thfield, Minn. KGCR 1210 KGMF 1430 Corvallis, Ore. KFNF 890 KGCR 1210 KGNF 1430 State Coll., N.M. KFOR 1210 KGCV 1200 KGNO 1210 KOCV 1400 Lincoln, Nebr. Mandan, N.D. Dodge City, Kans. Chickasha, Okia. KGOV 1400 Long Beach, Cal. Wolf P't, Mont. San F'ncisco, Cal. Reno, Nevada KOIL 1260 KFPM 1310 Mitchell, S. D. Amarillo, Texas KOIN 940 Portland, Ore. KFPM 1310 Ferg's F'lls, Minn KGOV 1420 KOIL 1270 KFPW 1340 KGDM 1100 Honolulu, Hawaii Fordiad, Ore. KGU 1260	Rockford, Ill.	St. Joseph. Mo.	Scottsbluff, Nebr.	Los Angeles, Cal.
KFOX 1250 KGCA 1270 KGWP 1210 KGWC 550 KFNF 890 Beeorah, Iowa Elk City, Okla. Corvalis, Ore. Soft KFNF 890 Watertown, S.D. KGCN 1430 KOB State Coll., N.M. KFOR 1210 KGCU 1200 KGNO 1210 KOB State Coll., N.M. KFOR 1210 Mandan, N.D. Dodge City, Kans. Chickasha, Okla. KOH 1380 Long Beach, Cal. KGDA 1370 KGRS 1410 KOH 1380 Dublin, Texas Mitchell, S.D. Amarillo, Texas Courtell Bluffs, Ia. KOIL 1260 KFPW 1310 KGDM 1200 KGV 1400 Courtell Bluffs, Ia. KFPW 1340 KGDM 1370 Amarillo, Texas Courtell Bluffs, Ia. KFPW 1340 KGDM 1000 Honolulu, Hawaii Portland, Ore. KFPW 1340 KGDM Stockton, Cal. KGWO 14	KFLX 1370	KGBZ 930	I KGMB 1320	IKOA 830
KFMX12:0KGCA12:0KGCA530N'thfield Minn.Decorah, IowaElk City, Okla.Corvallis, Ore.KFNF890State Coll., N.M.KGCR1210Shenandoah, Ia.KGCU1200No. Platte, Neb.State Coll., N.M.KFOR1210KGCU1200No. Platte, Neb.KOCWLincoln, Nebr.KGCX1310Dodge City, Kans.Chickasha, Okla.KFOX1250KGCX1310KGCO220Long Beach, Cal.KGDA1370KGRS1410KFPL1310KGDE1200KGRS1410Creenville, TexasKGDE1200KGU1260Greenville, Tex.Ferg's F'lls. MinnKGDM1000KOINKFPW1340Stockton, Cal.KGOV1420KoLKFPY1340Stockton, Cal.KGW620Seattle, Wash.KFPY1340KGDY1200KGW520Seattle, Wash.	Galveston, Tex.	York, Nebr.	Honolutu, T. H.	Denver, Colo.
KFNF 890 KGCR 1210 KGNF 1430 KOB 1180 Shenandoah, Ia. KGCU 1200 No. Platte, Neb. State Coll., N.M. KFOR 1210 KGCU 1200 KGNO 1210 KOCW 1400 Lincoln, Nebr. KGCX 1310 Dodge City, Kans. Chickasha, Okia. KOH 1380 Long Beach, Cal. KGDA 1370 KGRS 1410 KOIL 1260 Dublin, Texas Mitchell, S. D. Amarillo, Texas Council Bluffs, Ia. KGIN 140 KOIL 1260 Greenville, Tex. Ferg's F'lis, Minn Honolulu, Hawaii Portland, Ore. KOL 1270 KFPW 1340 Stockton, Cal. KGOD 1420 KOL 1270 KFPY 1340 Stockton, Cal. KGOV 1420 KOL 270	KFMX 1250	Decorah Iowa	Elk City, Okla	Corvallis, Ore
Brenandoah, Ta. KFORWatertown, S. D. (Lincoin, Nebr.No. Platte, Neb. KGCUState Coll., N.M. KOCWKFOR1210 Mandan, N.D. KGCXKGCU1200 Mandan, N.D. KGCXNo. Platte, Neb. KGNOState Coll., N.M. KOCWKFOX1250 Uong Beach, Cal.KGCX1310 Wolf P't, Mont. 	KENE 890	KGCR 1210	KGNF 1430	KOB 1180
KFOR 1210 KGCU 1200 KGNO 1210 KOCW 1400 Lincoln, Nebr. Mandan, N.D. Mandan, N.D. Dodge City, Kans. Chickasha, Okla. KOH 1380 Long Beach, Cal. Wolf Pt, Mont. San F'ncisco, Cal. KOH 1380 Long Beach, Cal. Mitchell, S. D. Matter Pt. KGRS 1410 KOH 1260 Dublin, Texas Mitchell, S. D. Mardan, N.D. KGRS 1410 KOH 1260 Greenville, Tex. KGDA 1370 KGRS KGNO 940 KOIN 940 Greenville, Tex. Ferg's F'lis, Minn Honolulu, Hawaii Portland, Ore. KGVO 1420 KOL 1270 KFPW 1340 Stockton, Cal. Missoula, Mont. Seattle, Wash. Seattle, Wash. Seattle, Wash. Seattle, Wash.	Shenandoah, Ia.	Watertown, S.D.	No. Platte, Neb.	State Coll., N.M.
KFOX 1250 KGCX 1310 KGO 790 KOH 1380 Long Beach, Cal. Wolf P't, Mont. San F'ncisco, Cal. Reno, Nevada KGIL 1260 Dublin, Texas Mitchell, S. D. Amarillo, Texas Council Bluffs, Ia. KGIL 1260 KFPL 1310 Mitchell, S. D. KGUL 940 KOIL 1260 Greenville, Tex. Ferg's F'lls, Minn Honolulu, Hawaii Portland, Ore. Fortland, Ore. KFPW 1340 KGDM 1100 KGVO 1420 KOL 1270 Ft. Smith, Ark. KGDY 1200 KGW 620 KOMO 920	KFOR 1210	KGCU 1200	I KGNO 1210	KOCW 1400
Long Beach, Cal.Wolf P't, Mont.San F'neisco, Cal.Reno, NevadaKFPL1310KGDA1370KGRS1410KOIL1260Dublin, TexasMitchell, S. D.Amarillo, TexasCouncil Bluffs, Ia.KFPM1310KGDE1200KGU940KOIN940Greenville, Tex.Ferg's F'lls. MinnHonolulu, HawaiiPortland, Ore.KOL1270KFPW1340Stockton, Cal.KGDV1420KOL1270KFPY1340Stockton, Cal.Missoula, Mont.Seattle, Wash.	Lincoln, Nebr.	KGCV 1310	KGO 790	KOH 1380
KFPL 1310 KGDA 1370 KGRS 1410 KOLL 1200 Dublin, Texas Mitchell, S. D. Amarillo, Texas Council Bluffs, Ia. KGDE 1200 KGU 940 KOIN 940 Greenville, Tex. Ferg's F'lls. Minn Honolulu, Hawaii Portland, Ore. KFPW 1340 KGDM 100 KGVO 1420 Ft. Smith, Ark. Stockton, Cal. Missoula, Mont. Seattle, Wash. KFPY 1340 KGDV 1200 KGW 920	Long Beach, Cal	Wolf P't. Mont.	San F'ncisco, Cal	
Dublin, Texas Mitchell, S. D. Amarillo, Texas Council Bluffs, Ia. KFPM 1310 KGDE 1200 KGU 940 KOIN 940 Greenville, Tex. Ferg's F'lls. Minn Honolulu, Hawaii Portland, Ore. Ferg's KOL 1270 KFPW 1340 KGDM 1100 KGV0 1420 KOL 1270 Ft. Smith, Ark. KGDY 1200 KGW Mont. Seattle, Wash.	KFPL 1310	KGDA 1370	KGRS 1410	KOIL 1260
KFPM 1310 KGDE 1200 KGU 940 ROIN 940 Greenville, Tex. Ferg's F'lls. Minn Honolulu, Hawaii Portland, Ore. KGDW 1340 KGDM 100 KGVO 1420 KOL 1270 Ft. Smith, Ark. Stockton, Cal. Missoula, Mont. Seattle, Wash. Seattle, Wash. KFPY 1340 KGDV 1200 KGW 920	Dublin, Texas	Mitchell, S. D.	Amarillo, Texas	
KFPW 1340 KGDM 1100 KGVO 1420 KOL 1270 Ft. Smith, Ark. Stockton, Cal. Missoula, Mont. Seattle, Wash. Sea	KFPM 1310	KGDE 1200	Honolulu Howaii	Portland Ore
Ft. Smith, Ark. Stockton, Cal. Missoula, Mont. Seattle, Wash. KFPY 1340 KGDY 1200 KGW 620 KOMO 920	KFPW 1340	KGDM 1100	KGVO 1420	KOL 1270
	Ft. Smith, Ark.	Stockton, Cal.	Missoula, Mont.	Seattle, Wash.
Spokane, Wash.	KFPY 1340	KGDY 1200	KGW 620	KOMO 920
	Spokane, Wash.	Huron, S. D.	Portland, Ure.	Seattle, wash.
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KONO

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WDAY

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San Antonio, Tex	Los Angeles, Cal.	Chicago, Ill.	Springfield, Mass.
KOOS 1370	KTNT 1170	WAAM 1250	WCAC 600
Marshfield, Ore. KORE 1420	Muscatine, Iowa KTRH 1120	Newark, N. J.	Storrs, Conn.
Eugene, Ore.	Houston, Texas	WAAT 940	WCAD 1220
KOY 1390	KTSA 1290	Jersey City, N. J. WAAW 660	Canton, N. Y. WCAE 1220
Phoenix, Ariz.	San Antonio, Tex.	Omaha, Nebr.	WCAE 1220 Pittsburgh, Pa.
KPCB 650	KTSL 1310	WABC 860	WCAH 1430
Seattle, Wash.	Shreveport, La.	New York City	Columbus, Ohio
KPJM 1500 Prescott, Ariz.	KTSM 1310	WABI 1200	WCAJ 590
KPO 680	El Paso, Texas KTW 1270	Bangor, Maine	Lincoln, Nebr.
San F'ncisco, Cal.	Seattle, Wash.	WABZ 1200 New Orleans, La.	WCAL 1250
KPOF 880	IKDJ 1370 I J	WACO 1240	Northfield, Minn. WCAM 1280
Denver, Colo.	Walla Wal., Wash.	WACO 1240 Waco, Texas WADC 1320	Camden, N. J.
KPPC 1210	KUOA 1390	WADC 1320	WCAO 600
Pasadena, Cal. KPQ 1500	Fayetteville, Ark.	Akron, Ohio	Baltimore, Md.
Wonstehoo Wosh	KUSD 890	WAIU 640	WCAP 1280
Wenatchee, Wash KPRC 920	Vermillion, S. D. KUT 1500	Columbus, Ohio WALR 1210	Asbury Pk., N. J. WCAT 1200
Houston, Texas	Austin, Texas	Zanesville, Ohio	Rapid City, S. D.
KQV 1380	KVI 760	WAPI 1140	WCAU 1170
Pittsburgh, Pa.	Tacoma, Wash.		Philadelphia, Pa.
KQW 1010	KVL 1370	Birmingham, Ala. WASH 1270	WCAX 1200
San Jose, Cal. KRE 1370	Seattle, Wash.	Gr. Rapids, Mich.	Burlington, Vt.
KRE 1370 Berkeley, Cal.	KVOA 1260	WAWZ 1350	WCAZ 1070
KREG 1500	Tucson, Arizona KVOO 1140	Zarephath, N. J.	Carthage, Ill.
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KRGV 1260	KVOS 1200	WBAK 1430	Allentown, Pa. WCBD 1080
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KKSC 1120	KWJJ 1060	WBBC 1400	Minneap., Minn. WCDA 1350
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KSAC 580	KWK 1350	WDDT 1910	WCFL 970
Manh'tt'n, Kans. KSCJ 1330	St. Louis, Mo.	Richmond, Va.	Chicago, Ill.
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KSD 550	KWKH 850	Chicago, Ill. WBBR 1300	Brooklyn, N. Y.
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KSEI 900	KWLC 1270	WBBZ 1200	WCKY 1490
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KSL 1130 Salt Lake City	KWSC 1220	WBCM 1410	WCLO 1200
KSMR 1200	Pullman, Wash KWWG 1260	Bay City, Mich.	Janesville, Wis.
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KTAB 560	El Centro, Cal. KXRO 1310	Greensboro, N.C. WBIS 1230	Meridian, Miss.
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KTAP 1420	KXYZ 1420	WBMS 1450	Harrisburg, Pa. WCOH 1210
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KTAR 620	KYA 1230	I WBNX 1350	I WCRW 1210 I
Phoenix, Ariz.	San F'ncisco, Cal.	New York City	Chicago, Ill.
KTAT 1240 Ft. Worth, Tex.	KYW 1020	WBOQ 860	WCSC 1360
KTBR 1300	Chicago, Ill. KZM 1370	New York City WBOW 1310	Charleston, S. C
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KTBS 1450	NAA 690	WBRC 930	WDAE 1220
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Twin Falls, Ida.	San Jose, C. R.	Wilkes-Barre, Pa.	Kansas City, Mo.
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Hot Spgs., Ark. KTLC 1310	Glace Bay, N. S	Needham, Mass. WBT 1080	Amarillo, Texas
Houston, Texas	Boston, Mass.	Charlotte, N. C.	WDAH 1310 El Paso, Texas
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WDBJ

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WDBO 1120	WFI 560 Philadelphia, Pa.	WHEC 1440 Rochester, N. Y.	Chicago, Ill.
Orlando, Fla. WDEL 1120	WFIW 940	WHFC 1420	WJBU 1210
Wilmington, Del. WDGY 1180	Hopkinsville, Ky.	Cicero, Ill. WHIS 1410	Lewisburg, Pa WJBW 1200
Minneap., Minn.	WFLA 620 Clearwater, Fla.	Bluefield, W. Va.	New Orleans, La.
WDIX 1500	WFOX 1400	WHK 1390	WJBY 1210
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WDOD 1280 Chattan'ga, Tenn	WGAL 1310 Lancaster, Pa.	New York City	Jackson, Miss.
WDRC 1830	WGAR 1450	WHO 1000	WJJD 1130 Mooseheart, Ill.
Hartford, Conn. WDSU 1250	Cleveland, Ohio WGBB 1210	Des Moines, Ia WHOM 1450	WJKS 1360
New Orleans, La.	Freeport, N. Y.	Jersey City, N. J.	Gary, Ind.
WDWF 1210	II WGBC 1430	WHP 1430	WJR 750 Detroit, Mich.
Providence, R. I WDZ 1070	Memphis, Tenn. WGBF 630	Harrisburg, Pa. WIAS 1420	WJSV 1460
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WEAF 550	WGBI 880 Scranton, Pa.	WIBA 1280 Madison, Wis.	Mansfield, Ohio
New York City WEAI 1270	WGBS 1180	WIBG 930	WIZ 760 *
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WEAN 780	Gulfport, Miss.	Jackson, Mich.	San Juan, P. R.
Providence, R. I. WEAO 570	WGCP 1250	WIBO 560	WKAR 1040
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WEBC 1290 Superior, Wis.	WGES 1360 Chicago, Ill.	Steubenville, O.	Laconia, N. H.
WEBQ 1210	WGH 1310	WIBU 1210	WKBB 1310 Joliet, Ill.
Harrisburg, Ill. WEBR 1310	Newp't News, Va. WGL 1370	Poynette, Wis. WIBW 580	WKBC 1310
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WEDC 1210	WGN 720	WIBX 1200 Utica, N. Y. WICC 600	Indianapolis, Ind.
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Cicero, Ill. WELK 1370	WHAD 1120 Milwaukee, Wis.	WIOD 1300 Miami, Fla.	WKBS 1310 Galesburg, Ill.
Philadelphia, Pa WELL 1420	WHAM 1150	WIP 610	WKBV 1500
BattleCreek.Mich	Rochester, N.Y.	Philadelphia, Pa WIS 1010	Connersville, Ind.
WENR 870 Chicago, Ill.	WHAP 1300 New York City	Columbia, S. C.	Buffalo, N. Y.
WEPS 1200	WHAS 820	WISJ 780	WKBZ 1500
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WEVD 1300 New York City	Philadelphia, Pa.	Milwaukee, Wis.	Lancaster, Pa.
WEW 760	1 1011 7 1200	WJAC 1310 Johnstown, Pa.	WKRC 550 Cincinnati, O.
St. Louis, Mo. WEXL 1810	Troy, N. Y. WHB 860	WJAG 1060	WKY 900
Royal Oak, Mich.	Kansas City, Mo.	Norfolk, Nebr WJAK 1310	Oklahoma City WKZO 590
WFAA 800	WHBC 1200 Canton, Ohio	Marion, Ind.	Bo'n Spore Mich
Dallas, Texas WFAN 610	WHBD 1370	WJAR 890	WLAC 1470 Nashville, Tenn.
Philadelphia, Pa.	Mt. Orab, O. WHBF 1210	Providence, R. I WJAS 1290	
WFBC 1200 Knoxville, Tenn.	Rock Island, Ill.	Pittsburgh, Pa.	Louisville, Ky.
WFBE 1200	WHBL 1410	WJAX 900 Jacksonville, Fla.	WLB 1250 St. Paul, Minn.
Cincinnati, Ohio WFBG 1310	Sheboygan, Wis. WHBQ 1370	WJAY 610	WLBC 1310
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WFBL 1360	WHBU 1210 Anderson, Ind.	WJAZ 1490 Chicago, Ill.	WLBF 1420 Kansas City, Ks.
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WFBR 1270 Baltimore, Md.	Calumet, Mich.	Red Bank, N. J.	II Stevens Pt., Wis, I
WFDF 1310	WHDH 830	WJBK 1370	WLBW 1260
Flint, Mich. WFDV 1370	Boston, Mass. WHDI 1180	Detroit, Mich. WJBL 1200	Oil City, Pa. WLBX 1500
Rome, Ga.	Minneap., Minn.	Decatur, Ill.	L.I.City, N.Y.
			1
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WLBZ

A COMPLETE INDEX BY CALL LETTERS

XED

WLBZ 620 Bangor, Me.	WNBO 1200 Washington, Pa.	WPTF 680	WSIX 1210
WLČI 1210	WNBR 1430	Raleigh, N. C. WQAM 560	Springfield, Tenn. WSJS 1310
Ithaca, N. Y.	Memphis, Tenn.	Miami, Fla.	WinstSal., N. C.
WLEY 1370 Lexington, Mass.	WNBW 1200 Carbondale, Pa.	WQAN 880	WSM 650
WLIT 560	WNBX 1200	Scranton, Pa. WQAO 1010	Nashville, Tenn WSMB 1320
Philadelphia, Pa	Springfield, Vt.	New York City	New Orleans, La.
WLOE 1500 Boston, Mass.	WNBZ 1290 SaranacL'ke, N.Y.	WQBC 1360	WSMK 1380
WLS 870	WNJ 1450	Vicksburg, Miss. WQDM 1370	Dayton, Ohio WSOC 1210
Chicago, Ill.	Newark, N. J.	St. Albans, Vt.	Gastonia, N. C.
WLSI 1210 Providence, R. I.	WNOX 560 Knoxville, Tenn.	WQDX 1210 Thomasville, Ga.	WSPA 1420
WLTH 1400	WNYC 570	WRAF 1200	Spartanburg, S.C. WSPD 1340
Brooklyn, N. Y.	New York City	La Porte, Ind.	Toledo, Ohio
WLVA 1370 Lynchburg Va	WOAI 1190 San Antonio, Tex.	WRAK 1370 Williamsport, Pa.	WSSH 1410
Lynchburg, Va. WLW 700	WOAX 1280	WRAM 1370	Boston, Mass. WSUI 880
Cincinnati, Ohio	Trenton, N. J.	Wilmington, N.C.	Iowa City, Ia.
WLWL 1100 New York City	WOBT 1310 Union City, Tenn.	WRAW 1810 Reading Pa	WSUN 620
WMAC 570	WOBU 580	Reading, Pa WRAX 1020	St. Petersb'g, Fla. WSVS 1370
Syracuse, N. Y.	Charlest'n, W.Va.	Philadelphia, Pa.	Buffalo, N. Y.
WMAK 1040 Buffalo, N. Y.	WOC 1000 Davenport, Iowa	WRBI 1310 Tifton Co	WSYB 1500
WMAL 630	WOCL 1210	Tifton, Ga. WRBJ 1370	Rutland, Vt. WSYR 570
Washington, D.C.	Jamestown, N. Y.	Hattiesburg, Miss	Syracuse, N. Y.
WMAQ 670 Chicago, Ill.	WODA 1250 Paterson, N. J.	WRBL 1200	WTAD 1440
WMAZ 890	WODX 1410	Columbus, Ga. WRBQ 1210	Quincy, Ill. WTAG 580
Macon, Ga.	Mobile, Ala.	Greenville, Miss.	Worcester, Mass.
WMBA 1500 Newport, R. I.	WOI 640 Ames, Iowa	WRBX 1410 Roopelse Ve	WTAM 1070
WMBC 1420	WOKO 1440	Roanoke, Va. WRC 950	Cleveland, Ohio WTAQ 1330
Detroit, Mich.	Albany, N. Y.	Washington, D.C.	Eau Claire, Wis.
WMBD 1440 Peoria Hghts.,Ill.	WOL 1310 Washington, D.C.	WRDO 1370 Augusta, Me.	WTAR 780
WMBG 1210	WOMT 1210	WRDW 1500	Norfolk Va. WTAW 1120
Richmond, Va.	Manitowoc, Wis.	Augusta, Ga.	College Sta., Tex. WTAX 1210
WMBH 1420 Joplin, Mo.	Gr. Rapids, Mich.	WREC 600 Memphis, Tenn.	WTAX 1210 Springfield, Ill.
WMBI 1080	WOPI 1500	WREN 1220	WTBO 1420
Chicago, Ill. WMBO 1310	Bristol, Tenn.	Lawrence, Kans.	Cumberland, Md.
Auburn, N. Y.	WOQ 1300 Kansas City, Mo.	WRHM 1250 Minneap., Minn.	WTEL 1310 Philadelphia, Pa,
WMBQ 1500	WOR 710	WRJN 1370	WTFI 1450
Brooklyn, N. Y. WMBR 1370	Newark, N. J. WORC 1200	Racine, Wis.	Toccoa, Ga.
Tampa, Fla.	Worcester, Mass.	WRNY 1010 New York City	WTIC 660-1060 Hartford, Conn.
WMBR 1370 Tampa, Fla. WMC 780	WOS 630	WROL 1310	WTMJ 620
Memphis, Tenn. WMCA 570	Veff's'n City, Mo. WOV 1130	Knoxville, Tenn.	Milwaukee, Wis.
New York City	New York City	WRR 1280 Dallas, Texas	WTOC 1260 Savannah, Ga.
WMIL 1500	WOW 590	Dallas, Texas WRUF 830	WWAE 1200
Brooklyn, N. Y WMMN 890	Omaha, Nebr. WOWO 1160	Gainesville, Fla.	Hammond, Ind.
Fairmont, W.Va.	Ft Wayne Ind	WRVA 1110 Richmond, Va.	WWJ 920 Detroit, Mich.
WMPC 1500	WPAD 1420	WSAI 1330	WWL 850 New Orleans, La.
Lapeer, Mich. WMRJ 1210	Paducah, Ky. WPAP 1010	Cincinnati, Ohio WSAJ 1310	New Orleans, La. WWNC 570
Jamaica, N. Y.	New York City	Grove City, Pa.	WWNC 570 Asheville, N. C.
WMSG 1350	WPAW 1210	WSAN 1440	WWRL 1500
New York City WMT 600	Pawtucket, R. I. WPCC 560	Allentown, Pa WSAR 1450	Woodside, N. Y. WWSW 1500
Waterloo, Iowa	Chicago, Ill.	Fall River, Mass.	WWSW 1500 Pittsburgh, Pa.
WNAC 1230	WPCH 810	WSAZ 580	WWVA 1160
Boston, Mass. WNAD 1010	New York City WPEN 1500	Hunt'gton, W.Va. WSB 740	Wheeling, W. Va. WXYZ 1240
Norman, Okla.	Philadelphia, Pa.	Atlanta, Ga.	Detroit, Mich.
WNAX 570	II WPG 1100 I I	WSBC 1210	YEA 1200
Yankton, S. D. WNBF 1500	Atl'ntic City,N.J. WPOE 1370	Chicago, Ill. WSBT 1230	Guad'l'jara, Mex.
Bingh'mt'n, N.Y.	Patchogue, N. Y.	South Bend, Ind.	XEB 1030 Mexico City
WNBH 1310	WPOR 780	WSEN 1210	XEC 1333
New B'df'd, Mass.	Norfolk, Va. WPSC 1230	Columbus, Ohio WSFA 1410	Toluca, Mex.
	State College, Pa.	WSFA 1410 Montgomery,Ala.	XED 961 Reynosa, Mex.

XEE

A COMPLETE INDEX BY CALL LETTERS

10BP

XEE 1132		XEM 730		XETA 1140		XEZ 588	
Oaxaco, Mex.	1	Tampico, Mex.		Mexico City		Mexico City	
XEFA 1250		XEN 711		XETF 680		XFC 805	
Mexico City		Mexico City		Veracruz, Mex.		Aguascal'ntes, M.	
XEFE 980		XEO 940		XETO 1485	1.1	XFF 915	
Laredo, Mex.		Mexico City		Mexico City		Chihuahua, Mex.	
XEH 1080		XEP 1400		XETY 1300		XFG 638	
Monterrey, Mex.		Laredo, Mex.		Mexico City		Mexico City	
XEI 1000		XEQ 1015		XEU 800		XFI 818	1
Morelia, Mex.		Juarez, Mex.		Veracruz, Mex.		Mexico City	
XEJ 857		XER 674		XEV 1034		XFX 860	
Juarez, Mex.		Mexico City		Puebla, Mex.		Mexico City	
XEK 990	-	XES 890		XEW 780		8WMC 682	
Mexico City		Tampico, Mex.		Mexico City		St. Johns, N.F.	
XEL 1091		XET 630		XEX 1210		10BP 1200	
Saltillo, Mex.		Monterrey, Mex.		Mexico City		Wingham, Ont.	
				XEY 547			
			1	Merida, Mex.			
				1			

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 55)

Havana W-23	50	СМВО	1405		250	СМО	1150
Havana W-25	15	CMBR	1500		1400	СМŴ	588
	150	CMBS	790		500	CMX	890
	150	CMBT	1070	Holguin W-27	30	CMKF	1363
	150	CMBW	1010	Matanzas W-24		5 CMGB	1185
	30	CMBX	1405	Iviatalizas W-24	5	CMGD	1140
	100	CMBY	1405		50	CMGF	977
	150	CMBZ	1010		60	CMGH	780
	500	CMC	840	Pinar del Rio W-22	20	CMAB	1249
	150	CMCA	1225	I mai del Kio w-22	30	CMAC	1375
				Santa Clara W-25	15	CMHI	1110
	150	CMCB	1070		20		1450
	250	CMCD	1225	Santiago X-28		CMKA	
	250	CMCF	890		15	CMKB	1200
	30	CMCG	1285		150	CMKC	1034
	15	CMCH	1285		20	CMKD	1100
	15	CMCM	1500		250	CMKE	1249
	250	CMCN	1225		30	CMKG	1176
	225	CMCO	660		250	CMKH	1327
	600	CMCO	1150	Tuinucu	500	CMHC	790
	20	CMCR	1285				
	5	CMCT	1500				
	50	CMCU	1345	COSTA RICA			
	15	CMCY	1345				
	3150	CMK	730	San Jose FF-23	50	TIC	750

AMATEUR BROADCAST STATIONS IN CANADA

	AIVIALISU.	a DROADCAST STATIONS IN CAN					
Call 10AK 10BU 10BP 10AE	Owner of Station Classic Radio Club Canora Radio Association Wingham Radio Club Bowmanville Radio Club	Location of Station 151 Ontario St., Stratford, Ont. Railway Ave., East Canora, Saskatchewan Brunswick Hotel Bldg., Wingham, Ont. Sougog St., West, Bowmanville, Ont.	Kcys. 1200 1200 1200 1200	Meters 250 250 250 250 250	Watts 10 15 15 10		
10BI	Prince Albert Radio Club	331 20th St. West, Prince Albert, Sask.	1200	250	25		
10AY 10AB 10BQ	Kelowna Radio Association Moose Jaw Radio Association Telephone City Radio Asso.	Pendozi St., Kelowna, B. C. 338 Main St. North Moose Jaw, Sask. 12 Terrace Hill, Brantford, Ont.	1200 1200 1200	250 250 250	$25 \\ 25 \\ 5$		
CANADIAN STATIONS TELEVISION							
Call VE9AU VE9RM VE9BZ VE9AR	Owner Crawford Hopkins Rogers Majestic Corp., Limite Radio Service Engineers A. R. MacKenzie	Location London, Ontario	Kycl. 2004-2100 2004-2100 2750-2850 2850-2950	149 149 109	Meters .7-142.9 .7-142.9 .1-105.3 .3-101.7		
	CANADIA	N HIGH FREQUENCY BROADCAST	ING				
Call VE9CI VE9AK VE9CU VE9CU	Owner Crawford Hopkins Alberta Pacific Grain Company Calgary Albertan Borrett for CHNS	Location London, Ont.	Kycl. 2758 2830 6005 6050		Meters 108.8 105.9 49.96 49.59		

A FACT	Crawioru nopkins	Dongon, Ont.	2100	100.0
VE9AK	Alberta Pacific Grain Company	Red Deer, Alta.	2830	105.9
VE9CU	Calgary Albertan	Calgary, Alta.	6005	49.96
VE9CF	Borrett for CHNS	Halifax, N. S.	6050	49.59
VE9CS	United Church of Canada	Vancouver, B. C.	6070	49.42
VE9GW	Gooderham & Worts, Limited	Bowmanville, Ontario	6095	49.22
VE9CG	Calgary Herald, Limited	Calgary, Alta.	6110	49.10
VE9DR	Canadian Marconi Co.	Drummondville, Quebec	11780	25.47
VE9CA	Western Broadcasting Co., Ltd.	Calgary, Alta.	11860	25.3
VE9CA	Western Broadcasting Co., Ltd.	Calgary, Alta.	6030	49.75
VE9CL	James Richardson & Sons	Middlechurch, Manitoba	6150	48.8

THE CUBAN EXPERIMENTALS

Call	Owner	A ddress	Location	Keys.	Meters	Watts
CLR	Enrique Lasanta	Rayo numero 2	Habana	1000	30	150
CM-1BY	Antonio Sarasola	Marti numero 3	Gunajay	7150	41.9	30
CM-1CX	Gerardo R. Suarez	Luz Caballero numero 25	Gunajay	7300	41	15
CM-1FM		Marti numero 49	Guanajay	14122	21.5	100
CM-10E	Osvaldo Escobar	Capitan Reves s-n	San Cristobal	7150	41.9	7.5
CM-2AP	Pedro C. Andux	Neptuno numero 176	Habana	7310	41.5	10
CM-2AR	Alfredo Rosell	Xifres numero 18	Habana	143.5		7.5
CM-2AY	Cesar Fernandez	Real 101	Marianao	7310	41.5	7.5
CM-2CF	Victor Coullard	Camp. Columbia 30-B	Marianao	7257	41.2	7.5
CM-2FC	Fernando Capestany	Godinez "E" Buena Vista	Marianao	7150	41.9	7.5
CM-2GZ	Jorge L. Gonzalez	Monte numero 49	Habana	7300	41	7.5
CM-2IQ	Jose Fernandez	Real 89	Marianao	7257	41.2	7.5
CM-2JM	Justo Mahia	Sitios numero 65	Habana	7150	41.9	5
CM-2JT	Jose A. Terry	Avenida de la Playa numero 5	Marianao	14280	21	7.5
CM-2KW		Goicuria numero 24	Habana	7310	41.5	5
CM-2MD		Padre Varela numero 120	Habana	7300	41	20
CM-2MK	R. V. Watters	Avenida de Italia 29	Habana	7170	41.8	100
CM-20C	Lorenzo Capo	Neptuno numero 176, altos	Habana	7300	41	7.5
CM-2PC CM-2QY	Marino Diaz Quinones	Yatch Mariana	Habana	7190	41.7	10
CM-2Q1 CM-2RA	Alberto Giro	21 entre C y D, Vedado	Habana	7310	41.5	15
CM-2RC	Rigoberto Alvarez	San Jose numero 216	Habana	7152	41.9	7.5
CM-2RO	Radio Club de Cuba Pablo A Rosado	Genios numero 23	Habana	7310	41.5	7.5
CM-2RZ	Nestor Rodriguez	Santa Rosa y Gral Nunez	Marianao	7300	41	7.5
CM-28C	Jose del Salto	Cardenas numero 55	Habana	7152	41.9	7.5
CM-2SF	Eusebio Solis	General Suarez numero 126 Juana Alonso num. 9, Luyano	Habana	14015	21.4	250
CM-2SH	Silvio Hernandez	H numero 184, Vedado	Habana Habana	7207	41.6	7.5
CM-2WA	Ezequiel Santos	Cristina numero 12	Habana	$7170 \\ 7170$	41.8 41.8	7.5 7.5
	Pedro Madiedo	Santa Rosa A	Marianao	7135	42	10
CM-2WW	Amadeo Saenz d'Calahorra	Marina numero 2	Habana	7120	42.1	50
CM-2XA	Alfredo Rosell	Xifres numero 18	Habana	7292	41.1	7.5
CM-2XC	Alexander Strang	M. F. de Castro s-n	Habana	7310	41.5	5
CM-2XD	Juan F. de Castro	3a. Avenida esquina a 4	Marianao	14015	21.4	250
CM-2XK	Raul Karman	Rayo 67	Habana	7150	41.9	7.5
CM-2YB	Francisco Vives	Paseo de Marti numero 105	Habana	7310	41.5	5
CM-4AA	Morris Katzen	Yatch Kallisto	Habana	7150	41.9	7.5
CM-5AZ	Ernesto V. Figueroa	Independencia 130	Matanzas	7257	41.2	7.5
CM-5BY	Leon Gonzalez Velez	San Isidro 5	Matanzas	7257	41.2	7.5
CM-5CX	Jose Alfonso	Diago 73	Colon	7257	41.2	50
CM-5EN CM-5FC	Escuela Normal	Tello Lamar 41	Matanzas	7257	41.2	7.5
CM-5FL	Felix U. Casas	E. Blanchet 19	Matanzas	7211	41.6	7.5
	Francisco Diaz Felix U. Casas	Santa Catalina 16	P. Betancourt	7170	41.8	7.5
CM-5NI	Julio C. Ovarzabal	Tello Lamar 60	Matanzas	7257	41.2	7.5
CM-5RV	Jose R. Ponte	Marti numero 24 San Vicente numero 28	Jovellanos Matanzas	7300	41	7.5
CM-5RY	Bernabe R. de la Torre	General Betancourt numero 105	Matanzas	$7150 \\ 14280$	$\frac{41.9}{21}$	7.5 7.5
	Eduardo Terry	San Carlos 197	Cienfuegos	7300	41	10
CM-6GT	Juan Pablo Ros	Independencia 150	Cienfuegos	1579	41.2	5
	Remberto Sanchez	Candelaria numero 16	Santa Clara	7310	41.5	7.5
CM-6SZ	Homero Sanchez	Independencia numero 9	Santo Domingo	7300	41	15
CM-7CX	Leonard B. Fox	Central Florida	Florida	7310	41.5	15
CM-7DW	M. L. de Quintana	Central Tacajo	Tacajo	7211	41.6	10
CM-7JQ	Leonard B. Fox	Central Florida	Florida	14280	21	7.5
	Arsenio Valdes	Ave. General Machado	Ciego de Avila	7130	42.8	20
CM-7SH	Domingo Caymares	Augusto Arango 31	Nuevitas	7257	41.2	$\overline{15}$
	Alberto Ravelo	Ave. entre 1 y 3 V. A.	Santiago de Cuba	7300	41	30
	Edmundo Recamier	Reloj Alta numero 2	Santiago de Cuba	7300	41	20
	Arturo C. de Ribas	1 esquina a 8 V. A.	Santiago de Cuba	7300	41	20
CM-8HS	Guillermo Polanco	M. Corona Baja 16	Santiago de Cuba	7130	42.8	100
	Melchor Aguero	Estrada Palma, Alta 1	Santiago de Cuba	7140	42.8	50
	Luis C. Greco	San Bartolome 32	Santiago de Cuba	7300	41	50
	Earle D. Byer B. V. Greer	Estacion Naval	Guantanamo	7300	41	50
014-01.0	D. V. Greer	Estacion Naval	Guantanamo	7300	41	10 0

The Monthly Forum (Continued from page 26)

only surmise that the Denver station was broadcasting a program which originated in the studio of WJZ and the announcer of the latter inadvertantly spoke before cutting off the chain.

"Will you please explain to me why

it is that Station KQV, Pittsburgh, Pa., only has 500 watts instead of 5000," inquires John W. Delach, Oakmont, Pa. "It's the second oldest radio in Pittsburgh."

Unfortunately, or perhaps fortunately, power is not assigned by seniority. There are many old stations still on low power. Not even merit seems to be recognized in making power assignments. For instance, WHK, one of the pioneer stations, has been trying for years to get more power than the 1000 watts allotted it, but has been unable to get by the powers that be.

"Why is WWAE listed as Hammond, Ind.?" asks Wm. Lesser, 180 Harman St., Brooklyn, N. Y. "I receive this station nightly and they announce it as Chicago, Ill. I wouldn't believe this only I have had a verification from this station and the Post Office stamp was also Chicago."

Hammond is a suburb of Chicago. More and more stations are moving their transmitters to the suburbs of the cities in which they are located. RADEX always gives as location the studio rather than the antenna towers. In the case of WWAE, however, the reports of the Commission show both transmitter and studio locations as Hammond. We are unable to account for their announcing as from Chicago.

"I would like to know," inquires Chas. H. Kramer, 1906 Hanover Ave., Allentown, Pa., "if there is a 10,000-watt California station on or near 1490 kcys."

The Commission reports for years carried KPWF at Westminster, Calif., as having a construction permit for 10,000 watts. Information came to us that no such station was on the air or even in course of construction and letters addressed to it were returned. We therefore deleted it.

"How about a complete airline distance chart?" suggests W. Dyson, 72 Cambridge Ave., Hamilton, Ont.

Any table of distances must necessarily show only a very limited number of cities, the number that can be given at either the top or the side of a sheet. We formerly published such a list but received many complaints because so few cities were shown. A very much better method of measuring distances is with the RADEX Radio Map, for then the distance can be quickly ascertained between any two given points in North America.

"Puzzle No. 3 in March cannot be solved," insists James Pinkerton, 47 Jasper St., Paterson, N. J. "I worked hours on it and could not get it. All calls were supposed to be in North America and CBMT is in Cuba, not North America. I could have easily solved it had I know Cuba could have been used."

Has anyone ever seen a map of North America that did not show Cuba or seen Cuba on any other map but that of North America?

We receive many complaints regarding the character of programs. We ourselves frequently chafe during long harangues regarding the merits of some tooth-paste or washing-machine, but usually we can spin the dial and get something more to our taste.

H. W. Martin, Secretary of the Fort William Radio Club, 330 Dease St., Fort William, Ont., writes in part as follows: "We feel that the broadcasting of programs has taken on an aspect of cheapness during the last year or so. Out of scores of programs each week it is safe to say that not over eight or nine percent belong to the better class, and the trash that is flooding the air now is increasing so rapidly that quite a few people cannot see investment in a radio."

Advertisers are more and more coming to sense the fact that all over the continent people are springing to their feet when advertising begins and tuning out their programs. For instance, Cremo cigars have gone from the extreme of most obnoxious newspaper and billboard advertising to the limiting of advertising talk on their radio programs to twentyfive words.

It is no easy matter to provide all 100% features, but there is really no excuse for some of the patter and chatter put out on some programs. The dialog between some of the comedians (!) of the air is so asinine and puerile it would not be permitted on the stage of even the cheapest burlesque house. And our own pet peeve is the "laughter" interjected in a program by hired laughers. The Blackstone program with Frank Crummit and Julia Sanderson is one of the greatest offenders in this respect.

However, our only comfort is that we don't have to pay money for this sort of thing and by using the dial patiently, sooner or later we can tune in something really enjoyable.

ORITE	PRC	JGR	AM		
Feature	Tim	e Statio	_	and the second second	Feature
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HOW TO TUNE A SET CORRECTLY **Read This Page Carefully and You Can Set Your** Dials Accurately for Any Station in America

A LL stations in America are listed in RADEX in three tables:

1st by Frequencies.

2nd by Call Letters

3rd by States and Cities.

The Index by Frequencies is the one to be used, the other two are merely INDEX BY TREOUTING

supplementary. Let us assume you have

just bought your first RADEX. Proceed as follows:

Tune in some stationany station that comes in. Tune it sharply, turning down your rheostats (Volume control) until we find the marks on your dials at which it comes in most clearly and with greatest volume.

Let us assume that the station we are hearing is WEAF in New York. First we must ascertain the frequency for this station. Look it up under WEAF in the Index by Call Letters or under New York in the Index by States and Cities. In. States and Cities. either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 kcys. frequency by the Federal Radio Commission. We also find that it has a power and that it in as a power 680 kilocycles 440.9 meter of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc. In the blanks for dial numbers opposite 660 kilo-reals (which is the unrue longth of 454.3 meters)

590 kilocycles 508.2 meters 1000 Spokane, Wash, 1000 Linculn, Netr 1000 Boston, Mass, 1000 Omatis, Nibr, 1000 Barrien Springs, KHO WCAJ WEFI WOW Borrieu Springs, Mieb 600 kilocycles 499.7 meters Iroquole Faile, Oat.
 Iroquole Faile, Oat.
 San Hiego, Calif.
 San Hiego, Calif.
 Beloit Wia.
 Beloit Wia.
 Mermulik. Tenn.
 Mermulik. Tenn.
 Mermulik. Tenn. CFCH SFSD WCAO WEBW WOAN WHEC WTIC 610 kilocycles 491.5 meters 1908 San Prancisco, Catif. 1908 Kansas City, Mo. 500 Philadefphia, Pa. 1908 Kansas City, Mo. WDAP WFAN WIP WOQ 620 kilocycles 483.6 meters N DAR WDAR WDBO WLBZ 500 1000 1000 500 Phornis, Arta Portland, Ora, Tampa, Pla, Ottando, Fla, Dover-Josceofs, Ma, Milwaukee, Wis, 630 kilocycles 475.9 meters 500 Viernela, B. C. 500 Viernela, B. C. 500 Monston, Swek. 500 Marzalan, Men. 500 Fennerile, Ind. 500 Fennerile, Ind. 500 Washington, D. C. 500 Washington, D. C. CFCT CJGX CNRA CYR MFRU WGBP WMAL WOS 640 kilocycles 468.5 meters 5000 Los Angeles, Calla 5000 Columbus, Ohio WALU 650 kilocycles 461.3 meters \$000 Nashville, Tenn WSM

660 kilocycles 454.3 meter WAAW 500 Omaha, Nebr. WEAF 5000 New York Clip 670 kilocycles 447.5 meters WMAQ 5000 Chicago, III.

680 kilocycles 440.9 meters

cycles (which is the wave length of 454.3 meters) enter the dial readings of your set. It is immaterial whether your set has one, two or three dials. Use as many of three spaces provided as you need. The set used in the illustration had two dials. In this case we entered the dial readings for 660 kilocycles as 69-67.

Let us now tune in some other station. We repeat the same procedure in tuning and find that we are hearing, let us say, WOS at Jefferson City. Pro-ceed as before in ascertaining the frequency of WOS. This we find to be 630 keys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 kcys. are 72-70 and the dial numbers for 660 kcys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcys. We listen carefully and if they are on the of Nashville at this point. We then enter the dial eadings for WSM opposite 650 kcys. Now it is clear that if we reset our dials at 71-69 our set will be tuned to 640 kcys. and at that point KFI of Los Angeles will be heard, always assuming, of course, that it is on the air and within range of our particular set.

AND DIAL NUMBERS
76 74
Louin Warmer, Inc. Nebraska Weileyau University Edition Elec, Humitarring Co. Wondmen of the World Emmenuel Missionary College
75 73
Abtilit Power & Paper Co. Histop N. S. Thomas Airlan Redo Corp. Monumentai Redio Co., Inc. Belui College Vaughan Nutiool of Music WELS:, Inc.
Travelare Insurance Co.
Don Lee, Inc.
Repairs City Star Co. Regaring Broadcasting Co., Inc. Citybel Broadcasting Co., Inc. Unity School of Christianity
[73]7/]]]
Bleetrical Environment Co. Oregonian Publishing Co. Tamma Publishing Co. Railins College Inc. Thompson L. Guerner Milwaukee Journal
72 70
Victoria Iroaitesting Atta Winning Guilt Stritting Castilo Itanus Resulto Itanus Rephens Callege Franklike an the Att, Inc. H. A. Leere Co. Basa, Marketing Boreau
Carle C. Anthony, Inc. American Insurance Union
70 68
National Life & Accident Int. Co
0mehe Grain Fichange National Brandcasting Co., Inc.
68 66
Chicago Dally News, Inc.
67 65
Male Bros. A The Chronicle Surham Life Insurance Ga.

Now we tune in some other station, proceeding as before until after an evening or two, we have blanks filled on every page. We are now able to set our dials for any frequency we desire and consequently any station we may want whether we have ever received it before or not.

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial Numbers and we find that we are in tune to 680 kilocycles. On this wave there are two stations: KPO at San Francisco and WPTF at Raleigh, N. C. Both of these stations have 5000 walts in power. But knowing which is the closer to our set, we can tell almost invariably which station we are hearing. The Radio Commission has had to give the same frequency in most cases to several stations but they have distributed them geographically so they should not interfere. should not When two stations in the same locality have the same frequency, they are required to divide the

time. In this case, of course, it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it, but we do know it is one or the other of them.

The second column in the Index by Frequencies, as we have seen, gives the power of the station as measured in watts. This power also aids us in identifying stations as we will not ordinarily hear those stations with 500 watts or less unless they are close to our home city.

The Index by Call Letters also has spaces providing for logging dial numbers, but these are provided merely for the convenience of those who want to be able to turn instantly to some favorite station. They may or may not be used as you desire. Remember that it is the Index by Frequencies that we must use to get the most value and pleasure out of our radios.

The Index by Frequencies is now printed with marginal tabs. If you will fill in under the word "dial" your reading for this particular frequency, you can then turn instantly to any frequency de-sired. Take a pair of shears and cut along the dotted line, as shown.



If all the Radio sets I've "fooled" with in my time were piled on top of each other, they'd reach about half way to Mars. The trouble with me was that 1 thought I knew so much about Radio that I really didn't more the first thing I thought Radio was a plaything - that was all I could see in it for me.

IThought Radio Was a Plaything

But Now My Eyes are Opened, and I'm Making Over \$100 a Week!

\$50 a week! Man alive just one year ago a salary that big would have been the height of my ambition.

Twelve months ago I was skimping along on starvation wages just barely making both ends meet. It was the same old story — a little job a salary just as small as the job.

If you'd told me a year ago that in twelve months' time I would be making \$100 and more every week in the Radio business — whew! I know I'd have thought you were crazy. But that's the sort of money I'm pulling down right now—and in the future I expect even more. Why, only today -

But I am getting ahead of my story. I was hard up a year ago because I was kidding myself, that's all - not because I had to be.

When broadcasting first became the rage, I first began dabling with Radio. There's a fascination — something that grabs hold of a fellow — about twirling a little knob and suddenly listening to a voice speaking a thousand miles away!

Up to a year ago, I was just a dabbler - I thought Radio was a plaything. I never realized what an enormous, fastgrowing industry Radio bad come to be - employing thousands and thousands of trained men. I usually stayed home in the evenings after work, because I didn't make enough money to go out very much.

And as for the idea that a splendid Radio job might be mine, if I made a little effort to prepare for it - such an idea never entered my mind. When a friend suggested it to me one year ago I laughed at him.

"You're kidding me," I said. "I'm not," he replied. "Take a look at this ad."

He pointed to a page ad in a magzine I'd seen many times but just passed up. This time I read the ad carefully. It told of many big opportunities for trained men to succeed in the great new Radio field. With the advertisement was a coupon. I sent the coupon in, and in a few days received a handsome 64-page book, telling about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. Well, it was a revelation to me. I read the book carefully, and when I finished it I made my decision.

What's happened in the twelve months since that day, seems almost like a dream to me now. For ten of those twelve months, I've had a Radio business of my own. At first, of course, I started it as a little proposition on the side, under the guidance of the National Radio Institute. It wasn't long before I was getting so much to do that I quit my measly little clerical job, and devoted my full time to my Radio business.

Since that time I've gone right on up. They would have given me just as much help, too, if I had wanted to follow some other line of Radio besides building my own retail business - such as broadcasting, manufacturing, experimenting, sea operating, or any one of the score of lines they prepare for you. And to think that until that day I sent for their eye-opening book I'd been wailing "I never had a chance."

Now I'm making, as I told you before, over \$100 a week. And I know the future holds even more, for Radio is one of the most progressive, fastest-growing businesses in the world today. And it's work that I like - work a man can be interested in.

You may not be as bad off as I was. But think it over - are you satisfied? Are you making enough money, at work that you like? Would you sign a contract to stay where you are now for the next ten years — making the same money? If not, you'd better be doing something about it.

This new Radio game is a live-wire field of golden rewards. The work is fascinating, absorbing, well paid. The National Radio Institute — oldest and largest Radio home-study school in the world — will train you inexpensively in your own home to know Radio from A to Z.

Take another tip - No matter what your plans are, no matter how much or how little you know about Radio clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation — the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. 1FO, Washington, D. C.

J. E. SMITH, President,

National Radio Institute, Dept. 1FO, Washington, D. C.

Dear Mr. Smith:- Please send me your 64-page free book, giving all information about the opportunities in Radio and how I can learn quickly and easily at home to take advantage of them. I understand this request places me under no obligation, and that no salesman will call on me

Name		
Address		
Town.		
State		