MID-SUMMER EDITION - 1931



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 AND MODERN PRACTICE

MODDAN I AMETICE

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 Marshall, 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.

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MID-SUMMER EDITION



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 the 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.



GREAT RECORD Arouses SKEPTICS

But Ollie Ross Has Verifications

RADEX 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 DX 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.

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	
W			
			Α
	Т		
W			
		S	
			L
	0		

These Should Hold You

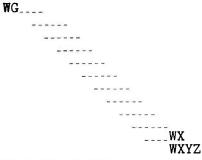
Some readers tried to work JOAK in on us in No. 3. Only North American calls are used in any of our puzzles unless foreign calls are specifically called for. All calls will be found in the three indexes of the previous issue of RADEX.

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.

UBYBGHMB
UHMYBKQJB
UBZHVYQM
ZVHMZQM
ZQJHGQ
JQMGQM
ZQVQMZQ

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

[6]

Milton Watson and Helen Gilliyan, 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	C	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 kcys.

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 Bremer-Tully Counterphase Six," a 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 identify?" 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 page 25)

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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 kilocysles. 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.

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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 coslly 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 louder 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 nin 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 pin 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 quatity, 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

M ANY 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.; 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 kcys., 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 kcys."

"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

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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:

Your Zone	EST	Whre Time CST	is Given MST		PST
EST CST MST PST	Subt. 1 hr. Subt. 2 hrs. Subt. 3 hrs.			r. Add Add	13 hrs. 12 hrs. 11 hr.
Stat Arkans Su W		City ort Smith 7 p.m., CST. n7 p.m.	Call KFPW	Freq. 1340	Watts 50
Su	nday, 11 a.m		KGHI p.m9 p.	1200 m., CST.	100
Colora		and Junction		ш., <u>3:</u> 30- 1310	10 p.m.
		a.m., 7-9 p.m		1310	100
W	eekdava 8 a t	n2 p.m., 5-1	0 n m		
Se	turdays, 0 a.	n2 p.m., 5-7	nm 10	n m _1 9	m
	Th	rinidad	KGIW	1420	100
Su	ndava 10 al	n10:30 a.m.			
Ju	8:30 p.m. M	п10.00 а.ш. ST	, 0.00 p.r	цо р.ш	, 1.00-
w	ookdove 7 a	n3 p.m., 5:3	0 n m -0 r	m	
Georgi	R R	ome	WFDV	1370	100
		.m12 n., 6-1			100
w	eekdava 9a 1	n10:30 a.m.,	11.45-1	m 6-10) n m
Iowa	D	ecorah	KGCA	1270	50
		a.m12:15 p.		1210	•••
w	eekdava 9-9-	45 a.m., 12:30	-2 n m		
Louisia		ew Orleans		1200	100
		.m., 1-5 p.m.,			100
W	cekdays, 8-12	n., 4-8 n.m.	e na pill	,	
Mississ		ekson	WJDX	1270	1000
Su	ndays, 12:15-	10:15 p.m., C			
Mon	-Tues., 7-15	a.m2:30 p.m	. 5:30-10	15 p.m.	
		7:15 a.m3:			5 p.m.
Sa	turdays. 7:15	a.m10:30 p.	m.		·· •
	Vi	cksburg	WQBC	1360	300
D	aily, 8 a.m6	p.m., CST.			
Missou	ri Gi	rant City	KGIZ	1500	100
	aily, 6 a.m12				25
Monta	na M aily, 10 a.m6	issoula p.m., MST.	KGVO	1420	100

New York	New York	WCDA	1350	250
SatSun 9	-12 a.m., 9-12 p.	m., DST.		
Monday, 3-	6 p.m.			
Tuesday, 6-				
Wednesday				
	5:30-8:30 p.m.			
Friday, 12-				
North Dakota	Devils Lake	KDLR	1210	100
	a.m1 p.m., 3-8			
	7 a.m2 p.m., 6-			
Oklahoma	Oklahoma City	VKFXR	1310	100
Doily 7 ar	n10 p.m., CST.	<i>y</i> 111 1110		
Daily, (a.i	Shawnee	KGFF	1420	100
Sundaya 1-	9:30 p.m., CST.	HOLL		
Wookdaya	7:30 a.m9:30 p.	m.		
Pennovlyania	Philadelphia	WELK	1370	100
Doily or 1	Thu., 9:30 a.m1	0.30 n m 1		
Thursdays	9:30 a.m12 m.	о.оо р.ш., .		
Rhode Island	Newport.	WMBA	1500	100
Sundaya 1.	7:30 p.m., DST.		1000	100
Wooldow	12-1 p.m., 4-5 p.	m 6~10 n	m	
Saturdays.	12-1 p.m., +-0 p.	ш., о то р.	ш.	`
	Bristol	WOPI	1500	100
Doily or S	at., 10-30 a.m2			
Sotundour	10:30 a.m2 p.m	5_11.30 n	т т	101.
baturuays,	Memphis	WHBO	1370	100
Sundaya 1.	30-5 p.m., CST.	шр¢	1010	100
Wooldova	9-11 a.m., 12-1 p	nm 4-5 n	m 7-0-3	0 n m
Texas	Dallas	WRR	1280	500
			1200	000
Sundays, o	a.m11 p.m., CS	F 11		

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 vet.

LETTERS from Our MAIL BOX

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, 2120½ 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."

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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."

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"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 1 0
Frequen	cies	
665	CJRM	Moose Jaw, Sask., from 600.
665		Eleminer Soch from 600
	CJRW	Fleming, Sask., from 600.
780	CMGH	Matanzas, Cuba, from 1249.
840	CMC	Havana, Cuba, from 845
965	CMBC	Havana, Cuba, from 955.
865	CMBD	Havana, Cuba, from 055
		Havana, Cuba, from 955.
985	CFCN	Calgary, Alta., from 690.
1225	CMCD	Havana Cuba, from 1345.
1300	XETY	Mexico City, Mexico, from 840.
Power		
588	CMW	Havana, Cuba, 700 to 1400.
660	CHWK	Chilliwack, B. C., 50 to 100.
730	CMK	Havana, Cuba, 3000 to 3150.
		Carrana, Ouba, 5000 to 5100.
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.
-1330	KGB	San Diana Calif 250 to 500
		San Diego, Calif., 250 to 500. Tupper Lake, N. Y., 10 to 100.
- 1420	WHDL	Tupper Lake, N. Y., 10 to 100.
1500	CMBR	Havana, Cuba, 35 to 15.
Owners		
570	WKBN	Youngstown, Ohio, to WKBN Broad-
0.0	II IIDIN	
1050	auran	casting Corp.
1070	CMCB	Havana, Cuba, to Antonio Capablanca
1200	WRAF	LaPorte, Ind., to South Bend Tribune.
1310	WDAH	LaPorte, Ind., to South Bend Tribune. El Paso, Texas, to Bledsoe & Blackwell.
1330	KGB	San Deigo Calif to Don Los Inc
		San Deigo, Calif., to Don Lee, Inc. Pittsburgh, Pa., to KQV Brdestg. Co.
1380	KQV	Pittsburgh, Pa., to KQV Bracstg. Co.
1420	WHFC	Cicero, Ill., to WHFC, Inc.
1420	WKBI	Chicago, Ill., to WKBI, Inc.
1500	KPJM	Prescott, Ariz., to A. P. Miller.
Deletion		1 1000000, 111112., 00 11. 1 . Million.
		U
550	CMCJ	Havana, Cuba.
870	CMHH	Cifuentes, Cuba.
920	CMHD	Caibarien, Cuba.
1010	CMCX	Havana, Cuba.
000		
(IQD)		
1090	CMAA	Guanajay, Cuba.
1094	CMAA CMGI	Guanajay, Cuba. Matanzas, Cuba.
1094 1315	CMAA CMGI CMGC	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba.
1094	CMAA CMGI	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba.
1094 1315 1332	CMAA CMGI CMGC CMJA	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba.
1094 1315 1332 1360	CMAA CMGI CMGC CMJA KPSN	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif.
1094 1315 1332 1360 1429	CMAA CMGI CMGC CMJA KPSN CMHE	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba.
1094 1315 1332 	CMAA CMGI CMGC CMJA KPSN CMHE CMBP	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba.
1094 1315 1332 1360 1429 1500 1500	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba.
1094 1315 1332 	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba.
1094 1315 1332 1360 1429 1500 1500	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba.
1094 1315 1332 1360 1429 1500 1500 Location	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston,
1094 1315 1332 	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB CMHB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass.
1094 1315 1332 1360 1429 1500 1500 Location 1410 1500	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston,
1094 1315 1332 1360 1429 1500 1500 Location 1410 1500 New	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB S WAAB KGKB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas.
1094 1315 1332 - 1360 1429 1500 1500 Location 1410 1500 New 580	CMAA CMGI CMGC CMJA KPSN CMHE CMHB CMHB WAAB KGKB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass.
1094 1315 1332 1360 1429 1500 1500 Location 1410 1500 New	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB S WAAB KGKB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas.
1094 1315 1332 - 1360 1429 1500 1500 Location 1410 1500 New 580	CMAA CMGI CMGC CMJA KPSN CMHE CMHB CMHB WAAB KGKB	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta.
1094 1315 1332 1360 1429 1500 1500 Location 1410 1500 New 580 1375 Calls	CMAA CMGI CMGC CMJA KPSN CMHE CMBP CMHB WAAB KGKB CHMA CMAC	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba.
1094 1315 1332 1360 1429 1500 1500 Location 1410 1500 New 580 1375 Calls 1050	CMAA CMGI CMGC CMJA KPSN CMHE CMHE CMHB WAAB KGKB CHMA CMAC KFBI	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB.
1094 1315 1332 1360 1429 1500 Location 1410 1500 New 580 1375 Calls 1050 1300	CMAA CMGI CMGC CMJA KPSN CMHE CMHB CMHB WAAB KGKB CHMA CMAC KFBI KFAC	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB. Log Angeles. Cal., from KTBI
1094 1315 1332 - 1360 1429 1500 Location 1410 1500 New 580 1375 Calls - 1050 - 1370	CMAA CMGI CMGC CMJA KPSN CMHE CMHE CMHB WAAB KGKB CHMA CMAC KFBI	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB. Log Angeles. Cal., from KTBI
1094 1315 1332 1360 1429 1500 Location 1410 1500 New 580 1375 Calls 1050 1300	CMAA CMGI CMGC CMJA KPSN CMHE CMHB WAAB KGKB CHMA CMAC KFBI KFAC WRAM	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB.
1094 1315 1332 - 1360 1429 1500 Location 1410 1500 New 580 1375 Calls - 1050 - 1370	CMAA CMGI CMGC CMJA KPSN CMHE CMHB CMHB WAAB KGKB CHMA CMAC KFBI KFAC	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB. Log Angeles, Cal., from KTBI Wilmington, N. C., from WRBT
1094 1315 1332 - 1360 1429 1500 Location 1410 1500 New 580 1375 Calls - 1300 - 1370 Chains 560	CMAA CMGI CMGC CMJA KPSN CMHE CMHE CMHB WAAB KGKB CHMA CMAC KFBI KFAC WRAM	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. Havana, Cuba. Sagua la Grande, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB. Log Angeles, Cal., from KTBI Wilmington, N. C., from WRBT Knoxville, Tenn., new CBS.
1094 1315 1332 1360 1429 1500 Location 1410 1500 New 580 1375 Calls - 1050 - 1300 - 1300 Chains	CMAA CMGI CMGC CMJA KPSN CMHE CMHB WAAB KGKB CHMA CMAC KFBI KFAC WRAM	Guanajay, Cuba. Matanzas, Cuba. Matanzas, Cuba. Camaguey, Cuba. Pasadena, Calif. Santa Clara, Cuba. Havana, Cuba. From Squantum, Mass., to Boston, Mass. From Brownwood, Tex., to Tyler, Texas. Edmonton, Alta. Pinar del Rio, Cuba. Milford, Kans., from KFKB. Log Angeles, Cal., from KTBI Wilmington, N. C., from WRBT

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)

INSURE YOUR RADIO ENJOYMENT

	SEND THIS BLANK TODAT	
The Radex Press,		
5005 Euclid Avenue,		
Cleveland, Ohio.		
Enclosed find \$ checked below:	for which send me postpaid my choice of your of	fers as
One Radio Map of	North America	25c
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	next five issues of RADEX	
	otion to RADEX, 10 issues, and Radio Map free	
	to RADEX with one leatherette cover and Radio Map, both free	
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Leatherette Cover.		.50
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N -- National

KEY TO CHAIN STATIONS

C — Columbia

CFCF	KPRC
1030 N	920 N
CFRB	KRLD
960 C	1040 C
CKAC 730 C	KSCJ 1330 C
CKGW	KSD
690 N	550 N
KDKA	KSL
980 N	1130 N
KDYL	KSTP
1290 C	1460 N
KECA	KTAR
1430 N	620 N
KFAB	KTHS
770 N	1040 N
KFH	KTRH
1300 C	1120 C
KFI 640 N	KTSA 1290 C
KFJF	KVI
1480 C	760 C
KFKX	KVOO
1020 N	1140 N
КГРҮ	KWK
1340 С	1350 N
KFRC	KYW
610 C	1020 N
KFSD 600 N	WAAB 1410 C
KFYR 550 N	WABC 860 C
KGO	WACO
790 N	1240 C
KGW 620 N	WADC 1320 C
KHJ	WAIU
900 C	640 C
KHQ	WAPI
590 N	1140 N
KLRA	WBAL
1390 C	760 N
KLZ	WBAP
560 C	800 N
KMBC	WBBM
950 C	770 C
KMOX	WBCM
1090 C	1410 C
KOA	WBEN
830 N	900 N
KOH	WBRC
1380 C	930 C
KOIL	WBT
1260 C	1080 C
KOIN	WBZ-A
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1270 C	1220 N
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WTAR 780 C
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WTMJ 620 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	rday :	and S	unday)
6:45-8:00 T	ower Hea	lth Exerc	ises		• •
WEAF	WEEL	WFI	WGY	WCAE	WRC
WBEN 8:00-8:15 C	CKGW	CI	Oneliae E	auto neu l	
WEAF		WEEI	Quaker E WTAG	WCSH	WFI
WRC	WGY	WCAE	WTAM	WWJ	WSAI
CKGW	/ WRVA	WPTF	WJAX	WIOD	WFLA
WSUN					
8:15-8:30 N WEAF	lorning D	evotions	WOW		WOW
W EAF W FI	WCSH	WCAE WJAR	WGY	WHAS WPTF	WOW WIOD
WAPI	WFLA	WSUN	WWJ WTAG	WGN	WJAX
ŴĴĎX	WRVA	WBEN	WSMB	ŴĔĨ	
8:30-9:00 (heerio				
WEAF	WEEI	WCKY	WRC	WCSH	WWJ
WHO WSB	WOC WSM	WDAF WJAX	WAPI WPTF	KPRC WTAG	WFI WOAI
WBEN		CKGW	wiod	WHAS	WFLA
WSUN			WJDX	WJAR	WGY
WOW	WCAE	WIBO			
9:00-9:30 M WABC	lorning M	oods	wppg	N/DO	WID
		WKBW WDBJ	W DRC WAIU	WPG	WIP
WFAN WSPD	WLAC	WDSU	WBBM	WBT WMT	WBCM KMOX
КМВС		KFH	KFJF	WACO	CFRB
WAAB					0
9:15-9:45 C			2		
WEAF		WLIT	WTAG	WCSH	WRC
WDAF KSD	WBEN WOW	WCAE WOC	WHO WWJ	WTAM CKGW	WSAI (WLS on
0.000			** ** 3	ONUW	
9:30) 9:45 10:00 WEAF	A. & P. P	rogram			
WEAF	WJAR	ŴTAG	WCSH	WRC	WGY
WCAE	WTAM	ww.	WOC	KSD	WHO
WDAF WFLA	WSUN	WEBC WHAS	WRVA WSM	WPTF WMC	WIOD WSB
WAPI	WSMB	WJDX	KVOO	WBAP	KPRC
WOAI	WKY	WBEN	wow	WFI	KSTP
WIBO					
11:15-11:50	Radio Ho	usehold	Institute	11/1 1/1	WDO
WEAF WHAS	WJAR WSM	WTAG WSB	WCAE	WLIT WWJ	WRC WSAI
KEKX	WTAM	KSD	WCAE WTMJ	KSTP	WEBC
WAPI	WSMB	WOAI	KTHS	KV00	KPRC
W 1145 KFKX WAPI WKY 12:00-12:30	WEEI	WGY	KTHS WMC	WBEN	
12:00-12:30	raul tre	maine an	d His Ore	hestra	
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WDBJ	WHK	WKRC	WAIU	WWNC	WDOD
WREC		WBRČ	KSCJ	WMT	KMBC
WDAY	KOIL	WIBW	KFJF	KLZ	
12:30-1:00			WDO	WOAH	WHITE .
WABC	WLBZ WLBW	WORC WMAL	WPG WCAO	WCAU WTAR	WHP WXYZ
WJAS WBCM		WREC	WLAC	WBRC	KSCJ
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1:30-2:30 N	lational Fa	rm and I	lome Ho	ur	
WJZ	WHAM	WJR	KSTP	WRVA	WHAS
WREN		WEBC	WIOD	WAPI	WOW WOAI
WMC WRC	WSB WHO	WGAR WDAF	KVOO WJDX	WKY WBAL	WSMB
KWK	KOA	WBZ	WBZA	WOC	KTHS
WFLA	WSUN	WJAX	KFAB	KPRC	KDKA
WLW	KFKX	WPTF	WSM		
1:30-2:00 H		estra	WEAN	WDO	WEAN
WABC WJAS	WHEC WLBW	WLBZ '₩MAL	WEAN WCAO	WPG WTAR	WFAN WDBJ
WKRC	WAIU	WWNC		WBCM	WDOD
WLAC	WBRC				

2:45-3:00 Pia	no Mood	8			
WJZ	WBAL	KDKA	KWK	CKGW	WREN
WJR	WFLA	WSUN	WRVA	WSB	WMC
WHAM	WGAR	WGN	KFAB		
3:00-3:15 Co	lumbia S	alon Orch	estra		
WABC	WHEC	WLBZ	WEAN	WNAC	WORC
WPG	WHP	WLBW	WMAL	WCAO	WTAR
WDBJ	WHK	WKRC	WAIU	WWNC	WXYZ
WBCM	WSPD	WDOD	WREC	WLAC	WBRC
KSCJ	WMT	KMBC	WDAY	KOIL	WIBW
K FJF	KRLD	KTRH	KLZ	CFRB	WIDW
5:00-5:30 TH				orno	
WEAF	WRC	KSD	WTAG	WSM	WHAS
WKY	KPRC	WTAM	WING	AA (21AT	шдо
5:30-5:45 Li					
WJZ	WBZ	WBZA	TYD AT	KDKA	WOAD
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6:05-6:30 Bl					
WEAF	WCAE	WCSH	WWJ	WJAR	WBEN
6:45-7:00 Li		gest Topi	CB		
WJZ	WBZ_	WBZA	WHAM	WBAL	KDKA
WRVA	WPTF	WJAX	WIOD	WLW	WFLA
WSUN					
7:00-7:15 Ar					
WJZ		KDKA	WBZ	WBZA	WRC
CKGW	WRVA	WPTF	WJAX	WIOD	WCKY
WFLA	WSUN	WLW	WJR	WGAR	WBAL
CFCF					
7:30-7:45 Pb	uil Cook -	– Ouakei	Man		
WJZ	WBZ	WBZA	WHAM	KDKA	WREN
KWK	WTMJ	WEBC	KOA	KSL	KGO
KECA	KGW	WRC	K ŎMO	KHQ	KFS D
KTAR	WGAR	WSMB	WSB	WPTF	WJAX
WIOD	WFLA	WHAS	WSM	WMC	WJDX
KTHS	KPRC	WOAI	W DIVI	WINC	WODA.
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					
WADC		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
WMT	KFH	WKBN	WNAX	KOH	WTAQ
WLAP	WOKO	WACO			

Sunday

1:00-2:00 National Oratorio Society								
WEAF	WJAR	WCSH	WRC	WGY	WCAE			
WTAM	WWJ	KSD	WOW	WOC	WHO			
WDAF	CKGW	WTMJ	KSTP	WEBC	WHA8			
KPO	KOA	KGW	KFSD	KOMO	KECA			
WBEN	KGO	CFCF						
1:30-2:00 Gy	psy Trail							
WABC	WFBL	WHEC	WGR	WDRC	WPG			
WHP	WJAS	WMAL	WTAR	WDBJ	WADC			
WAIU	WBT	WXYZ	WBCM	WSPD	WISN			
WTAQ	WCCO	KSCJ	WMT	KMBC	KOIL			
KFJF	KLZ	CFRB	WAAB					
2:30-3:00 Ye	ast Foam	ers						
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	KV00			

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WFA			WOAI	WKY	KOA	KSL
KPC			KGW	KHQ	KTAR	KFSD
2:30-3:00		Artists 70W			WGY	WRC
WEA		FCF	WWJ	KSD	WGI	WRU
3:00-4:00			uth Conf	erence		
WJZ	V	BAL	KDKA	KWK	WREN	KFAB
WR		VJAX	WIOD	KV00	WFAA	WOAI
WFI		VSUN	KGW	WPTF	KGO	KOA
KST		VEBC	WMC	WSMB	KPRC	WKY WGAR
KPC WT		KOMO KSL	KHQ	WSB	WAPI	WGAR
			Hour wit	h Toscha	Seidel	
WAI	BCV	VFBL	WHEC	WKBW	WCAU	WHP
WJA		VMAL	WCAO	WTAR	WDBJ	WADC
WA		VBT	WXYZ	WBCM	WLAC	WBRC
WD WB		VISN VCCO	WTAQ KSCJ	WFBM WMT	WGL KMBC	WMAQ KOIL
KFI		(FJF	WACO	KLZ	CFRB	WAAB
4:00-4:30				1100	01102	W MAD
WJZ		VBZ	WBZA	KDKA	WJR	WGAR
WL		WK.	WREN	KFAB	WBAL	
4:00-5:00 WE		5. Parko VEEI	es Cadma WJAR	WCSH	WTAG	VOA
WO		VKY	WOAI	WSAI	WJAX	KOA WHAS
ŴĴI		cvoo	KPRC	WEBC	WDAF	WWJ
WF		VSUN	KHQ	WHO	WOC	KGO
KOI		VCAE	WFJC	WRC	KGW	WPTF
WM WSI		VGY	WSM	KTHS	WBAP	WSB
4:00-5:0		VAPI	WBEN	WRVA	WIOD	•
WA		VFBL	WHEC	WKBW	WCAU	WHP
WJA	IS V	VLBW	WMAL	WCAO	WTAR	WDBJ
WH		VAIU	WBT	WXYZ	WBCM	WSPD
WL.		VBRC	WDSU	WISN	WTAQ	WFBM
WG KOI		VBBM (FH	KSCJ KFJF	WMT	KMOX	KMBC
				WACO arnhouse	KLZ	WAAB
WA	BCV	VFBL	WGR	WEAN	WDRC	WNAC
WC.	AU V	VJAS	WMAL	WADC	WKRC	WXYZ
WSI	PD V	vowo	WMAQ	KOIL	KRLD	WRR
5:00-6:0	J Nati	onal Ve VBAL		кwк	WDEN	wowy
KST		VEBC	WHAM WIOD	WMC	WREN KOMO	WCKY WJDX
WP		cvõõ	KPRC	WFLA	WSUN	KOA
KT	AR H	ζGO	KGW	KHQ	WSM	WKY
WSI		VOAI	WAPI	WSMB	WBZ	WBZA
WG 5:00-6:0			on 5:15)	(WIBO	on 5:30)	
WE			WJAR	WTAG	WCSH	WFI
WR		VBEN	WTAM	WSAI	WENR	woc
WH	o v	VDAF	CKGW	CFCF	WGY	
5:30-6:0						
WA WC		VFBL VJAS	WKBW	WEAN	WDRC WHK	WNAC
WX		VSPD	WCAO WOWO	WADC KMBC	KOIL	WKRC
6:00-7:0				Millo	ROID	
WE	AF V	VEEI	WJAR	WTAG	WCSH	WRC
WG		WWJ	WEBC	WIOD	WKY	WJDX
KG WC		KSTP KECA	WSMB KTAR	KOMO WFJC	KSD WOC	KGW WHO
WD	AF	WJAX	WFLA	WSUN	WHAS	KOA
WS	B	WBAP	KPRC	WOAI	WRVĂ	WMC
KV		WSAI	WSM	WFI	WIBO	WLIT
			s Busine		TUDO	1171 D
WA WF		WFBL WHP	WHEC WJAS	WGR WLBW	WPG WMAL	WIP WCAO
WT		W DBJ	WBT	WXYZ	WLAC	WBRC
ŴĹ	SU V	WTAQ	WMAQ	WBBM	WCCO	KSCJ
WM	IT I	KMOX	KMBČ	KOIL	KFH	KFJF
WA	CO 1	KLZ				
7:05-7:3 WE	U UId	Stagers WEEI	Memor i WJAR	wtag	WCSH	WLIT
WG	Ŷ V	W EEI WWJ	WSAI	WDAF	CFCF	WDAY
KF		KĠŎ	KSD	wow	KOMO	WTIC
WB	EN 1	KGO	KECA	WRVA	WFLA	WSUN
WI		WSM	WAPI	WJDX	KGW	
7:15-7:3		wFBL	WHEC	WGR	WIP	WFAN
WA		WJAS	WLBW		WCAO	W FAN W TAR
WI	BJ 1	WADC	WBT	WXYZ	WLAC	WBRC
WI	SU '	WTAQ	WCCO	KSCJ	WMT	KMOX
KM	IBC :	KOIL	KFH	KFJF	WACO	KLZ

		сI				
7:30-8:00 WAE		WFBL	s WHEC	WGR	WEAN	WDRC
WN	AC 1	WORC	WHP	WJAS	WLBW	WMAL
WT/	AR '	WDBJ	WADC	WAIU	WBT	WXYZ
WLA		WBRC	WDSU	WISN	WTAQ	WCCO
KSC KFJ		WMT WACO	KMOX KLZ	KMBC	KOIL	KFH
7:30-8:00	RC.	A Victor				
WE	AF	WJAR	WTAG	WCSH	WWJ	KPRC
WBI	EN '	WRC	WGY	WCAE	WTAM	WSAI
KYV	N	WRVA	WIOD	WFLA	WSUN	WHA8
KSI WSN		WDAF WJDX	WTMJ KTHS	WEBC KVOO	WMC WOAI	WSB WKY
KÖ		KSL	KGO	KFI	KTAR	KFSD
KGV	N I	комо	KHQ			
			k Melodi		1/11/1/	1/3/10/
WJ2 WK		WBZ WJR	WBZA WREN	WHAM WFAA	KWK KPRC	KYW WOAI
WH	ĂS '	WSM	WTMJ	KSTP	KDKA	WMC
KO	A .	WENR	WIOD	KTHS	WSMB	KOMO
KFI		KGW	KSL	KHQ	WLW	WCKY
WSI KFS		WPTF KTAR	WRVA WJDX	WFLA KPO	WSUN KVOO	KFAB KHQ
8:00-8:1	5 "D	evils. Dr	ugs and	Doctors"	RIOO	μπά
WA	BC	WFBL	WHEC	WGR	WEAN	WDRC
WN	AC	WCAU	WJAS	WMAL	WCAO	WADC
WH		WKRC	WGST WDSU	WXYZ WISN	WSPD WOWO	WREC WFBM
WL. WM		WBRC WCCO	KSCJ	KMOX	KMBC	KOIL
ŴĨ		WRR	KTSA	KLZ	KDYL	K VI
KOI		KFPY	KOIN	KHJ	KFRC	
				Choral O		WGY
WE WC		WJAR WWJ	WTAG WSAI	WCSH KSD	WRC WOW	WIOD
ŴĬĬ		KSTP	WHO	WOC	WHAS	ŴĹĬŤ
WE		WMC	WSB	WSMB	WKY	KTHS
KPI		WOAI	WTMJ	WTAM	WJDX	WIOD WBEN
WF 8:15-9:1		WSUN	WDAF	WTIC	KV00	WDEN
WJ2		WBZ	WBZA	WHAM	KDKA	WJR
WL		KYW	KWK	WREN	KOA	KSL
KH 8:45-9:0		KOMO	KFI oristore	KGW Freddie	KPO Rich's Or	chestra
WA		WHEC	WGR	WEAN	WDRC	WORC
WC	AO	WCAU	WHP	WJAS	WLBW	WMAL
WT	AR	WDBJ	WADC WTAQ	WAIU	WXYZ	WSPD WBBM
WD WC		WISN KSCJ	WMT	WOWO KMOX	WFBM KMBC	KOIL
KFI	H	KFJF	KLZ	CFRB		
9:00-9:1			rnment,"			
WE KSI		WTAG WKY	WCSH WSAI	WEBC WFJC	WGY WSB	WHAS WMC
WS		WFAA	WOW	WOAI	WSMB	WJDX
WIC		WFLA	WSUN	WOC	WHO	WRC
WW		KV00	WLIT	WBEN	WJAR	
		i y Playg i WFBL	irl — Irer WGR	ne Bordon	WDRC	WNAC
WA WC		WJAS	WMAL	WEAN WCAO	WADC	WHK
ŴŇ		WXYZ	WSPD	wowo	WBBM	KMOX
KM	BC	KOIL				
			nt Progra	am WFI	WGY	WCAE
WE WT	AM	WEEI	WRC	KSD	wow	WSM
WF	AA	KOA	WOAI	WSMB	KFI	KGW
KO	MO	KPO	КHQ	KPRC	WKY	WHAS
WG KSI	IN L	WSB CKGW	WOČ WAPI	WHO WBEN	WMC KSTP	WDAF
			aige Hou			
WA	BC	WFBL	ŴKBW	WEAN	WDRC	WNAC
WC		WJAS WBT	WMAL		WADC	WHK WDBO
WK WD		WXYZ	WGST WSPD	WTOC WREC	WQAM WDSU	wowo
	BM	wcco	кмох		KOIL	KFJF
KR		KTRH	KTSA	KLZ	KDYL	KOL
KF1		KOIN	KHJ	KFRC		
9:45-10: WE		dent Clu WWJ	b of the WSAI	WENR	KSD	wow
wD		WTIC	WCAE	WJAR	WTAG	WCSH
WF	I	WRC	WTAM	WGY	WBEN	WEEI
					WHAN	KDKA
WJ2 WG		WBZ WJR	WBZA WCKY	WBAL KYW	WHAM WREN	WTMJ
KST		WHAS	WMC	WSB	WSMB	WJDX

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KVOO KPRC WFAA WOAI WDAY KFYR KWK WKY KWK WKY 10:00-10:30 Royal's Poet of the Organ WABC WFBL WKBW WEAN WNAC WCAU WJAS WLBW WMAL WCAO WADC WHK WKRC WGST WXYZ WSPD WLAC WOWO WBBM KMOX KMBC KOIL KLZ KDYL KOL KFPY KOIN KHJ KFRC U.15 10-20 Wrold Advantage oith End Cil KOL KFPY KOIN KHJ KFRC 10:15-10:30 World Adventures with Floyd Gibbons WJZ WBZ WBZA WBAL KDKA WJR WGAR WENR KWK WREN 10:15-10:45 National Dairy Productions WEAF WEEI WJAR WTIC WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ WSAI WOW WDAF WSB WAPI WSMB WJDX WRVA WJAX WIOD WFLA WSUN WHAS WSM WMC 10:30.10:45 Exeture Builders 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 KRLD KLZ KDYL KOL KFPY KOIN KHJ KFRC 10:30-11:00 Kellogg Slumber Music 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 WKBW WPG WJAS WDBJ WADC WHK WBT WGST WWNC WBT WTOC WLAP WSPD WDOD WDAE WXYZ WREC WDSU WLAC WBRC WISN WTAQ wowo WFBM WBBM WCCO KSCJ WMT KMBC WNAX KOIL WIBW KFJF KRLD KLRA KTRH KTSA KOL KFPY KLZ KDYL кон KVI KFRC WSAZ KOIN KHJ WNOX 10:45-11:15 Sunday at Seth Parker's WEAF WEEI WCSH WRC WDAF CKGW WTMJ KSTP WFJC WWJ KYW WOW WGY wow WCAE WTAM WWJ KYW WOW WIOD WHAS WSM WHO WEBC WJAX WJDX KPRC WKY KOA KGO KGW WRVA WBEN WLIT WSB KTAR KFSD 11:30-12:00 Russian Cathedral Choir WEAF WRC WSB WFJC WWJ WGY WTA WWJ WBAP KOA WTAM KSTP WEBC WOW WHAS WBEN WIOD 11:30-12:00 Around the Samovar WFBL WKBW WEAN WDRC WNAC WMAL WCAO WTAR WDBJ WBT WSPD WBRC WDSU WTAQ WFBM WCCO KSCJ WMT KMOX WNAX WABC WCAU WXYZ WBBM WCCO KSCJ KFH KFJF KLZ Monday 3.00-4.00 Woman's Radia Paria

3:00-4:00 W	oman's K	adio Kevi	ie w		
WEAF	WEEI	WTIC	WJAR	WSAI	KYW
KSD	WOC	WTAG	WCSH	WFI	WRC
WGY	WBEN	WCAE	WTAM	WWJ	WHO
wow	WDAF				
3:30-4:00 Cl	nicago Ser	renade			
WJZ	WHAM	WJR	WLW	WLS	KDKA
WFLA	WSUN	WMC	WAPI	WJAX	WGAR
4:00-4:30 Da	ance Orch	estra			
WJZ	WBAL	KSTP	KTAR	KOA	KGO
KWK	KFSD	WHAM	WSM	WSB	WSMB
WMC	WBZ	WBZA	WGAR	KYW	
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
WREC	WLAC	WBBM	WCCO	KSCJ	WMT
KMOX	KMBC	WDAY	KOIL	KFJF	KRLD
KTRH	KLZ	KOL	KFRC	CFRB	
4:30-5:00 W	ardman P	ark Hote	l Orchest	ra	
WABC	WLBZ	WEAN	WNAC	WORC	WPG
WFAN	WHP	WLBW	WMAL	WCAO	WTAR
WDBJ	WKRC	WAIU	WWNC	WXYZ	WBCM
WSPD	WDOD	WREC	WLAC	WBRC	WCC0
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 KOMO KFAB KGW KOA KSL CKGW KSTP KGO WHAS WAPI KFSD WRC KTAR KP0 WSMB WOMD 7:00-7:15 Current Events-Kaltenbern WDBJ WKRC WWNC WXYZ WBCM WDOD WBRC KSCJ WMT WDAY KOIL WABC WHEC WLBZ WORC WHP WJAS WLBW WMAL WCAO WTAR WIBW KFH KFJF KTRH KOL KFRC 7:15.7:30 The World Taday KTRH KOL 7:15-7:30 The World Today WFAF WFI WSAI WEAF WFI WSAI WOW KGW KOMO KFSD KTHS KGO KECA WENR WFAA KSD KOA 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 WCAE KSD WDAF WJDX KGO WFLA WSUN WHA WHAS KTAR KFSD KSL WMC 8:15-8:30 Pennzoil Pete WEAF WEEI WTIC WRC WBEN WCAE WJAR WCSH WLIT WTAM WSAI KYW KSD WOC WHO WHAS WSM WMC WDAF WEBC WRVA WPTF WIOD WSMB WJDX WKY WSB WFLA WSUN WIOD KTHS WFAA WOAI CKGW WTMJ WWJ KSTP 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 WTAG WJAR WTIC WLIT WRC WGY WCAE WWJ WCSH WSAI WGN WHO WÕC KSD WDAF WTAM WOW WBEN 8:30-9:00 Gold Medal Express WJZ WBZ WBZA KDKA WJAX WFLA WSUN WGAR WJR WLW WKY KYW KWK WREN KOA KFAB WRVA WPTF WBAL WIOD WOAI KSL 9:00-9:30 Maytag Orchestra WJZ WBZ WBZ WBZA WHAM KDKA WJR KWK KYW KSTP WEBC KTHS WKY WOAI KOA KSL KECA KGO KGW KOMO KVOO WLW KHQ WGÁR WFAA KPRC 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 WEAN WHK WKRC WWNC WBT WQAM WDBO WDAE WXYZ WADC WGST WTOC WBCM WDOD WREC WLAC WBRC WOWO WFBM WMAQ WCCO WSPD WDSU WISN KSCJ WMT KMOX KMBC KLRA WDAY WNAX KFJF KTRH KOIL WIBW KFH WRR KLZ KDYL KOL KFPY KTSA KOIN KFRC KHJ 9:30-10:00 Chesebrough Real Folks WJZ WBZ WBZA WHAM KDKA WLW KWK KYW CKGW WJR WGAR KWK KYW CKGW WJR WGAR 9:30-10:00 General Motors Family Party WEAF WEEI WJAR WCSH WTAG WLIT WRC WGY WCAE WTAM WWJ WGN KSD WOC WOW WSAI WDAF KSTP WTMJ WHAS WSM WMC WSB KPRC WJAX WFAA WOAI WKY KOA KGO KGW KFI KOMO KHQ WTIC WHO WBEN WCAE 9:30-10:00 Bourjois WFBL WKBW WEAN WNAC WCAU WLBW WMAL WCAO WADC WHK WBT WXYZ WSPD WOWO WBBM WABC WJAS WKRC WBT WXY KMOX KMBC KOIL

[30]

10:00-10:30 Robert Burns Panatela Program	WLAC WBRC WDSU WISN
WABC WFBL WKBW WEAN WDRC WNAC	KSCJ WMT KLRA KFH
WCAU WJAS WMAL WCAO WADC WHK	KFRC CFRB
WKRC WXYZ WSPD WOWO WFBM WMAQ	7:30-8:00 Soconyland Sketches
WCCO KMOX KMBC KOIL KFJF KRLD	WEAF WEEI WJAR WTAG
KTRH KTSA KLZ KDYL KVI KOL	WBEN
KFPY KOIN KHJ KFRC	7:45-8:00 Dr. Scholl's Ramblers
10:00-10:30 Stromberg-Carlson Program WJZ WBZ WBZA WHAM KDKA KYW	WJZ WENR KFAB WCKY
KWK WREN WEBC WRVA WJAX WIOD	WRVA WREN WHAM KFSD KTHS WBAP WOAI KOA
WHAS WSM WMC WSB WSMB WOAI	KTHS WBAP WOAI KOA WPTF WJAX WFLA WSUN
KOA KPRC KGO KFI WCKY KGW	WSB WDAY KFYR KFI
KHQ KOMO WJDX WFLA WSUN WJR	WHAS KVOO WKY KTAR
KTAR KFSD WAPI WKY WGAR	8:00-8:30 Paul Whiteman's Paint Men
	WJZ WBZ WBZA WHAM
10:00-10:30 Adventures of Sherlock Holmes WEAF WJAR WCSH WWJ WTAG WEEI	WJR WLW KYW KWK
WLIT WTAM WSAI WRC WGN WOC	WJAX KGW KOMO KHQ
WHO WBEN WCAE	WGAR WGY KOA WIOD
10:30-11:00 Empire Builders	WMC WSB WJDX WSMB
WJZ WBZ WBZA WHAM KDKA WJR	KGO KECA WBAL WPTF
WLW KYW KWK WREN WTMJ WOAI KSTP WEBC KOA KSL KGO KECA	8:00-8:30 Blackstone Plantation
KSTP WEBC KOA KSL KGO KECA KGW KOMO KHQ KTAR KFSD WKY	WEAF WCAE WTAM WWJ
WBAP KPRC WGAR	KSD WOC WHO WOW
10:30-11:00 Symphonic Rhythm Makers	WEEI WJAR WTAG WCSH
WEAF WJAR WTAG WRC WCAE WTAM	WGY WBEN
WWJ WJDX WGY CFCF WEEI WENR	8:15-8:30 Old Gold Character Readings
10:30-11:00 Savino Tone Pictures	WABC WFBL WHEC WGR WDRC WNAC WORC WPG
WABC WFBL WEAN WDRC WNAC WORC	WDRC WNAC WORC WPG WJAS WLBW WCAO WTAR
WJAS WLBW WMAL WCAO WTAR WDBJ	WKRC WAIU WKBN WWNC
WADC WHK WWNC WBCM WDOD WREC	WTOC WQAM WDBO WDAE
WBRC WISN WTAQ KSCJ WMT KMBC	WSPD WDOD WREC WLAC
KLRA WNAX KFJF KTSA KFPY CFRB	WISN WJJD WCCO KSCJ
WOKO	KMBC KLRA WDAY WNAX
11:00-11:15 Paul Tremaine and His Orchestra WABC WFBL WKBW WDRC WORC WCAU	KFH KFJF WRR KTRH
WABC WFBL WKBW WDRC WORC WCAU WLBW WMAL WCAO WTAR WDBJ WADC	KDYL KVI KOL KFPY
WBT WBCM WSPD WLAC WBRC WDSU	KFRC
WISN WTAQ WOWO WFBM WCCO KSCJ	8:30-9:00 Florsheim Frolic
WMT WNAX KOIL KFJF WACO KLZ	WEAF WTAG WFI WRC
CFRB WAAB	WWJ WSAI WGN KSD
11:00-11:30 Florence Richardson and Orchestra	WRVA KVOO WJAX WIOD
WEAF WCAE WOW (WSAI off 11:15) (WJDX	WSM WMC WSB WSMB
WMC WSB KSD WSM on 11:15) CFCF	WSM WMC WSB WSMB WOAI WKY KOA KSL
WMC WSB KSD WSM on 11:15) CFCF WIOD	WSM WMC WSB WSMB WOAI WKY KOA KSL WHAS WCSH WBAP WBEN
WMC WSB KSD WSM on 11:15) CFCF WIOD 11:30-12:00 Hal Kemp and His Orchestra	WSM WMC WSB WSMB WOAI WKY KOA KSL
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	WSM WMC WSB WSMB WOAI WKY KOA KSL WHAS WCSH WBAP WBEN 8:45-9:00 Round Towners with Irene B WABC WFBL WHEC WGR WHP WJAS WLBW WCAO
WMC WSB KSD WSM on 11:15) CFCF WIOD 11:30-12:00 Hal Kemp and His Orchestra	WSM WMC WSB WSMB WOAI WKY KOA KSL WHAS WCSH WBAP WBEN 8:45-9:00 Round Towners with Irene B WABC WFBL WHEC WGR WHP WJAS WLBW WCAO WLAC WDSU WISN WTAQ
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 iWIOD (WOW WDAF WTMJ on 11:45) WDAY WAPI WGY KOA KSTP WEBC	WSM WMC WSB WSMB WOAI WKY KOA KSL WHAS WCSH WBAP WBEN 8:45-9:00 Round Towners with Irene B WABC WFBL WHEC WGR WHP WJAS WLBW WCAO WLAC WDSU WISN WTAQ KMOX KLZ CFRB
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 iWIOD (WOW WDAF WTMJ on 11:45) WDAY WAPI WGY KOA KSTP WEBC	WSM WMC WSB WSMB WOAI WKY KOA KSL WHAS WCSH WBAP WBEN 8:45-9:00 Round Towners with Irene B WABC WFBL WHEC WGR WHP WJAS WLBW WCAO WLAC WDSU WISN WTAQ KMOX KLZ CFRB 9:00-9:30 Household Celebrities Progra
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WLAC	WBRC	WDSU	WISN	WTAQ	WGL
KSCJ	WMT	KLRA	KFH	KDYL	KFPY
KFRC 7:30-8:00 So	CFRB	Sketcher			
WEAF	WEEI	WJAR	WTAG	WCSH	WGY
WBEN	w	n 11			
7:45-8:00 D WJZ	WENR	Kamble KFAB	WCKY	KWK	WEBC
WRVA	WREN	WHAM		WSMB	WJDX
KTHS	WBAP	WOAI	KOA	KSL	KGO
WPTF WSB	WJAX Wday	WFLA KFYR	WSUN KFI	WSM KOMO	WMC KHQ
WHAS	KV00	WKY	KTAR	ROMO	ипб
8:00-8:30 Pa	ul White	man's Pa	int Men		
WJZ	WBZ	WBZA KYW	WHAM KWK	KDKA WREN	WTMJ WRVA
WJR WJAX	WLW KGW	KOMO	KHQ	KFSD	KTAR
WGAR	ŴĞŸ	KŎĂ	WIOD	WHAS	WSM
WMC	WSB	WJDX	WSMB	WOAI	KFAB
KGO 8:00-8:30 Bl	KECA	WBAL	WPTF		
WEAF	WCAE	WTAM		WSAI	WIBO
KSD	WOC	WHO	wow	WDAF	KOA
WEEI	WJAR	WTAG	WCSH	WFI	WRC
WGY	WBEN		n 1.		
8:15-8:30 O WABC	Id Gold C WFBL	haracter WHEC	WGR	WLBZ	WEAN
WDRC		WORC	WPG	WCAU	WHP
WJAS	WLBW	WCAO	WTAR	WDBJ	WADC
WKRC	WAIU WQAM	WKBN WDBO	WWNC WDAE	WBT WXYZ	WGST WBCM
WTOC WSPD	WDOD	WREC	WLAC	WBRC	WDSU
WISN	WJJD	WCCO	KSCJ	WMT	КМОХ
KMBC		WDAY	WNAX	KOIL	WIBW
KFH KDYL	KFJF KVI	WRR KOL	KTRH KFPY	KTSA KOIN	KLZ KHJ
KFRC	K VI	ROL	MFLI	KOIN	КЦÌ
8:30-9:00 F	orsheim l	Frolic			
WEAF	WTAG	WFI	WRC	WGY	WCAE
WWJ WRVA	WSAI KVOO	WGN WJAX	KSD WIOD	WDAF WSUN	WEBC WFLA
WSM	WMC	WSB	WSMB	WJDX	KPRC
WOAI	WKY	KOA	KSL	KTHS	WJAR
WHAS	WCSH	WBAP	WBEN	KSTP	
8:45-9:00 R WABC	WFBL	WHEC	WGR	Seasley WDRC	WORC
WHP	WJAS	WLBW	WCAO	WTAR	WDBJ
WLAC	WDSU	WISN	WTAQ	wowo	KSCJ
KMOX 9:00-9:30 H		CFRB	. Progra	-	
WJZ	WBZ	WBZA	WBAL		KDKA
WGN	KWK	WREN	WJR		
9:00-9:30 N			Magazine		117 131
WEAF WRC	WEEI WBEN	WJAR WTAM	WTAG WSAI	WCSH KSD	WFI WOW
ŴŤMJ	WEBC	WRVA	WIOD	WFLA	WSUN
WSM	WMC	WSB	WSMB	WJDX	KPRC
WKY KFSD	KOA	KSL	KGO KHQ	KECA KVOO	KTAR WOAI
KYW	KGW	KOMO	ипб	W 100	WOAT
9:00-9:30 H	enry-Geo	rge			
WABC	WFBL	WGR	WEAN	WDRC	
WCAU WKRC		WMAL WSPD	WCAO WISN	WADC WOWO	WHK WFBM
WBBM	I WCCO	KMOX	KMBC	KOIL	KFH
9:30-10:00	The Philc	o Symph	ony Conc	ert	
WABC WNAC		WHEC WJAS	WKBW WMAL		WDRC WTAR
WADC	WHK	WKRC		WXYZ	WSPD
WDOL) WREC	WLAC	WBRC	WDSU	WISN
WOWO				WMT	KMOX KTRH
KMBC KTSA	CFRB	KFH	KFJF	KRLD	KTRH
9:30-10:00	Death Va				
WJZ	WBAL	WCKY WEND		WBZ	WBZA
WHAN 9:30-10:00	I KDKA	WENR			
WEAF	WJAR	WEEI	WTAG	WCSH	WRC
WGY	WCAE	WTAM	I WWJ	WSAI	WIBO
KSD	WHO WKV	WOW	WTMJ	KSTP	WEBC KOMO
KVOO KECA	WKY KGW	KOA KHQ	KSL WBAP	KGO WOC	WRVA
		WBĚN			

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10:00-10:15	Guarbar	M=	d Mue		
WADC	WCAO	WNAC	d Mrs. WKBW	WBBM	WKRC
WHK	WXYZ	WOWO	KMBC	WABC	WLBW
KOIL	WCAU	WJAS	WEAN	KMOX	WFBL
WSPD KLZ	WMAL KTRH	WWNC WFBM	WGST WLRA	WBRC WCCO	KRLD WISN
WREC	WTAR	WLAC	WDSU	KFJF	WHEC
WDBJ	KTSA	KDYL	KFH	WKBN	KHJ
KOIN	KFRC	KOL	KFPY		
10:00-11:00 WEAF	WEEI	WJAR	WTAG	WCSH	WFI
WRC	WCAE	WWJ	WSAI	KSD	woc
WHO	WTMJ	WEBC	WRVA	WJAX	WIOD
WFLA	WSUN	WHAS	WSM	WMC	WSB
WSMB KECA	WJDX KGW	WOAI KHQ	WKY KOMO	KOA KTAR	KGO KFSD
WIBO	WDAF	WTĂM	WAPI	WBEN	RIOD
10:15-10:30		oon Malt	Jester		
WABC	WFBL	WGR	WEAN	WDRC	WNAC
WCAU WKRC	WJAS WBT	WMAL WXYZ	WCAO WSPD	WADC WLAC	WHK WBRC
WDSU	wowo	WMAQ	wcco	KMBC	KLRA
KOIL	KFH	KRLD	KTSA	KLZ	
10:30-10:45 WJZ	Clara, Lu	and Em	KDKA	WJR	WLW
KWK	WBAL WREN	WHAM WGAR	WBZ	WBZA	WGN
10:30-11:00	Paramou	nt Publix		se .	
WABC	WFBL	WHEC	WKBW	WLBZ	WEAN
WDRC WMAL	WNAC WCAO	WPG WTAR	WCAU WDBJ	WHP WADC	WJAS WHK
WKRC	WKBN	WWNC	WBT	WGST	WTOC
WQAM	WDBO	WDAE	WXYZ	WBCM	WSPD
WDOD	WREC	WLAC	WBRC	WDSU	WISN
WOWO KMOX	WFBM KLRA	WBBM WDAY	WCCO WNAX	KSCJ KOIL	WMT WIBW
KFH	KFJF	KRLD	KTRH	KTSA	KLZ
KDYL	KOL	KFPY	KOIN	KHJ	KFRC
KNX	CFRB			<u>.</u>	
11:00-11:15 WABC	WFBL	WHEC	wDRC	WORC	WCAU
WJAS	WLBW	WCAO	WTAR	WDBJ	WADC
WKBN	WWNC	WXYZ	WBCM	WDOD	WREC
WLAC	WBRC KMOX	WDSU KLRA	WISN	WTAQ KFH	KSCJ KRLD
WMT KTSA	KDYL	KFPY	WNAA	КГП	KRLD
	Cab Callo		his Orch	estra	
WEAF	WFI	WOC	WHO	WOW	KSD
WTIC	WBEN	WMC			
	V	Vedne	esday		
7:00-7:15 M	orton Do	wnev			
WABC	WHEC	WLBZ	WEAN	WNAC	WORC
WCAU	WHP	WJAS	WLBW	WMAL	WCAO
WTAR WBCM	WDBJ WDOD	WKRC WLAC	WAIU WBRC	WWNC KSCJ	WXYZ WDAY
WIBW	KFJF	KTRH	KOL	KFRC	W DAT
7:05-7:15 G	ene Austi	in, tenor			
WEAF	WBEN	WCAE	WOC WHO	KGO WDA y	WWJ
WENR 7:15-7:30 Sc	WEBC	WSMB		WDAI	
WEAF	KFI	KPO K	GO W	FI KO	MO
KTAR	KFSD	WJAR	WENR		
7:30-7:45 Ev		Adams, A		WEAN	WDRC
WABC WNAC	WFBL WCAU	WHEC WCAO	WGR WDBJ	WTAR	WADC
WHK	WKRC	WAIU	WWNC	WGST	WXYZ
WSPD	WDOD	WREC	WLAC	WBRC	WDSU
WISN	WFBM	WGL	WCCO	KMOX KTRH	KMBC
KLRA 7:30-7:45 Bo	KOIL	KFJF	WRR		CFRB
WEAF	WLIT	WBEN	WCAE	WSAI	WRC
WTAM	WLIT WWJ	WGY			
7:45-8:00 "E	lack in th	e News i	n Washin	gton"	TUCIN
WEAF	WRC	KOA WBEN	KECA WRVA	KGO WKY	WGY KOMO
WCAE KFSD	WFJC WSAI	WIBO	KSD	WOC	WHO
WOW	WDAF	WAPI			
7:45-8:00 Da	ddy and	Rollo			
WABC	WFBL	WKBW	WEAN	WNAC	WCAU

WABC	WFBL	WKBW	WEAN	WNAC	WCAU
WJAS	WLBW	WMAL	WCAO	WADC	WKRC
		WREC		WFBM	WGL
WMAQ	WCCO	KMOX	KOIL	WRHM	

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

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10:30-11:00 Cod	a Cola				
				WTAG	WCSH
			WSAI	WOC	WEBC
				KSTP	WJAX
		WSMB	KTHS	KPRC	WOAI
			KECA	KGW	KHQ
		WGY	WDAF	WHAS	WTÁM
		KFSD	WMC	WSB	WWJ
	BEN	_			
10:45-11:15 Col		Concerts			-
		WEAN	WDRC	WORC	WPG
WIP-WFA	N	WCAU	WJAS	WLBW	WMAL
		WDBJ	WADC	WHK	WKBN
		WBCM	WDOD	WREC	WLAC
		WISN	WTAQ KMBČ	wowo	WFBM
		KMOX		KLRA	WNAX
	FJF 1	KRLD	KTSA	KDYL	KFPY
CFRB				. 17	
	he Voi		Radio Di	gest"	Woo
		WSUN	KSD	WTAM	WOC
		WEEI	WJAR	WCSH	WGY
		WIOD			
			His Orc		
		WCAE	KSD	WGY	WLIT
		WWJ	WFLA	WSUN (off 11:15)
(WAPI W	DAF o	n 11:15)			
11:30-12:00 Wi					WDO
		WKBW	WDRC	WORC	WPG
		WCAO	WTAR	WDBJ	WADC
		WBCM		WLAC	WBRC
		WTAQ	WFBM	WCCO	KSCJ
	MBC	WNAX	KFJF	KLZ	CFRB
WAAB					
	п	-1			
	1	Thurs	saay		
10:00-10:15 Ce	resota l	Program			
WEAF W		WTAG	WCSH	WFI	WRC
WGY W		WWJ	WSAI	KYW	KSTP
WRVA W		WBEN	WOC	WHO	
3:30-4:00 Chica		enade			
WJZ K	ĎKA (WJR	WREN	KFAB	KOA
WLW W	ISM	WMC	WAPI	WFLA	WSUN
CKGW					
4:30-5:00 U. S.	. Army l	Band			
WJZ W	LW	KWK	WREN	KFAB	WJAX
WSM K		WSMB			
5:00-5:15 "Sto		the Old			
	HAM		WENR	KWK	WREN
5:30-5:45 Rins					
		WTIC	WTAG	WJAR	WLIT
		WBEN	WCAE	<u>WTAM</u>	WWJ
KSD W	70C	WHO	WSAI	KYW	
7:00-7:30 Mid-		Federatio	on Hymn	Sing	min a
		WIBO	WWJ	WHAS	WOC
		WBEN			
7:30-7:45 St. N	loritz O	rchestra			
		WHP	WJAS	WLBW	WMAL
	VKBN	WBT	WXYZ	WREC	WBCM
	VBRC	WISN	WFBM	WGL	KSCJ
	VDAY	WNAX	KOIL	KFJF	KTRH
KVI H	IFPY	KFRC			
7:30-8:00 Niag	ara-Huo	dson Pro	gram	mm o	
		WSYR	WBEN	WTIC	
8:00-8:15 Dixi			TTE IT	17 17 17	WDDD
	VBZ	WBZA	KFAB	KWK	WREN
	XDKA	WGAR	WJR	WCKY	WLS
8:00-9:00 Fleis		Hour -	- Rudy V	allee	WJDX
	VEEI	WTAG	WJAX	WIOD	
	VCSH	WFI	WRC	WGY	WCAE
	WOW	WDAF	WWJ	WHAS	KTAR
	VSB	WSMB		KOA	WRVA
			WSM	woc	WAPI
	KOMO	WOAI	VOD	C V C TT	
	KHQ	KECA	KSD	CKGW	WTAM
KGW I	KHQ KSTP	KECA WGN	KPRC	WBEN	(WTMJ
KGW H KTHS V	KHQ KSTP WSAI	KECA WGN WBAP	KPRC WKY o	WBEN	(WTMJ
KGW I KTHS V 8:15-8:30 Rin-	KHQ KSTP WSAI Tin-Tin	KECA WGN WBAP Thrille	KPRC WKY 0	WBEN f 8:30)	(WTMJ
KGW I KTHS V 8:15-8:30 Rin- WJZ V	KHQ KSTP WSAI Tin-Tin WBZ	KECA WGN WBAP Thriller WBZA	KPRC WKY o WBAL	WBEN f 8:30) KDKA	(WTMJ WGAR
KGW H KTHS V 8:15-8:30 Rin- WJZ V WJR H	KHQ KSTP WSAI Tin-Tin WBZ KWK	KECA WGN WBAP Thriller WBZA WREN	KPRC WKY 0 WBAL WLW	WBEN f 8:30)	(WTMJ
KGW H KTHS V 8:15-8:30 Rin- WJZ V WJR H 8:30-8:45 Kall	KHQ KSTP WSAI Tin-Tin WBZ KWK KWK	KECA WGN WBAP Thriller WBZA WREN Edits th	KPRC WKY o WBAL WLW e News	WBEN f 8:30) KDKA KYW	(WTMJ WGAR KFAB
KGW H KTHS V 8:15-8:30 Rin- WJZ V WJR H 8:30-8:45 Kali WABC V	KHQ KSTP WSAI Tin-Tin WBZ KWK tenborn WFBL	KECA WGN WBAP Thriller WBZA WREN Edits th WGR	KPRC WKY o WBAL WLW • News WEAN	WBEN f 8:30) KDKA KYW WDRC	(WTMJ WGAR KFAB WNAC
KGW H KTHS V 8:15-8:30 Rin- WJZ V WJR H 8:30-8:45 Kall WABC V WORC V	KHQ KSTP WSAI Tin-Tin WBZ KWK tenborn WFBL WCAU	KECA WGN WBAP Thriller WBZA WREN Edits th WGR WJAS	KPRC WKY o WBAL WLW • News WEAN WMAL	WBEN f 8:30) KDKA KYW WDRC WCAO	(WTMJ WGAR KFAB WNAC WADC
KGW H KTHS V 8:15-8:30 Rin- WJZ V WJR H 8:30-8:45 Kali WABC V WORC V WHK V	KHQ KSTP WSAI Tin-Tin WBZ KWK tenborn WFBL WCAU WKRC	KECA WGN WBAP Thriller WBZA WREN Edits th WGR WJAS WXYZ	KPRC WKY o WBAL WLW • News WEAN WEAN WMAL WSPD	WBEN f 8:30) KDKA KYW WDRC	(WTMJ WGAR KFAB WNAC WADC
KGW H KTHS V 8:15-8:30 Rin- WJZ V WJR H 8:30-8:45 Kall WABC V WORC V WHK	KHQ KSTP WSAI Tin-Tin WBZ KWK tenborn WFBL WCAU	KECA WGN WBAP Thriller WBZA WREN Edits th WGR WJAS	KPRC WKY 0 WBAL WLW • News WEAN WMAL WSPD	WBEN f 8:30) KDKA KYW WDRC WCAO	(WTMJ WGAR KFAB WNAC WADC

8:30-9:00 Sa				WHAM	KDKA
WJZ WJR	WBZ WIBO	WBZA KWK	WBAL WREN	KFAB	WGAR
8:45-9:00 Th	e Hamilt	on Watch	man		
WABC WJAS	WFBL WLBW	WGR WMAL	WEAN WCAO	WNAC WADC	WCAU WHK
WKRC	WLBW	WSPD	wowo	WJJD	KMOX
KMBC	KOIL				
9:00-9:15 Pr WABC	emier Sal	ad Dress WKBW	wPG	WJAS	WLBW
WABC	WHEC WCAO	WTAR	WWNC	WXYZ	WSPD
WDOD	WLAC	WDSU	WISN	WTAQ	KMBC
KFH 9:00-9:30 Bl	KRLD	WACO	KLZ	КОН	
WJZ	WBZ	WBZA	WBAL	KDKA	WCKY
WHAM					
9:00-9:30 Ar WEAF	co Birthd WEEI	ay Party WJAR	WTAG	WCSH	WFI
CKGW	WRC	WGY	WSB	WSM	WIOD
WJAX	WOAI	KOA	KSL	WKY	WBAP
WRVA KYW	WSTP WCAE	WWJ WEBC	WSAI WOW	KSD WSMB	WDAF WJDX
woc	WFJC	WTMJ	WMC	WHO	KGO
KECA	KOMO	KHQ	KGW	WAPI	WTAM
WBEN 9:15-9:30 O	น ถ.น. ถ	hanatan	Poodinge		
WABC	WFBL	WHEC	WGR	WLBZ	WEAN
WDRC	WNAC	WORC	WPG	WCAU	WHP
WJAS	WLBW	WCAO WAIU	WTAR WKBN	WDBJ WWNC	WADC WBT
WHK WGST	WKRC WTOC	WQAM		WDAE	WXYZ
WBČM	WSPD	WDOD	WREC	WLAC	WBRC
WDSU	WISN	WOWO		WBBM	WCCO WDAY
KSCJ WNAX	WMT KOIL	KMOX WIBW	KMBC KFH	KLRA KFJF	KRLD
KTSA	KLZ	KDYL	KVI	KOL	KFPY
KOIN	кнј	KFRC	M		
9:30-10:00 . WEAF	WJAR	WWJ	WTAG	WCSH	WFI
WRC	WCAE	WSAI	WTAM		WGY
WBEN					
9:30-10:00 I WABC	WFBL	Story Ma	WEAN	WDRC	WNAC
WCAU	WJAS	WMAL		WADC	WHK
WKRC	WXYZ	WSPD	wowo	WBBM	KMOX
KMBC	KOIL	1 E-			
9:30-10:00 I WJZ	WBZ	WBZA	WBAL	WLW	KSTP
WKY	WTMJ	WEBC	WHAS	WSM	WJAX
KPRC	KOA	WRVA	WSB WJR	WBAP WSMB	KYW WOAI
KWK KECA	WREN KGW	WIOD KOMO		WAPI	
WHAM	I KDKA	KSL	KGÓ		-
10:00-10:30		eran Ho	ur V WEAN	WDRC	WNAC
WABC WCAU	WFBL WJAS	WKBW WMAL		WADC	WHK
WKRČ	WXYZ	WSPD	WDSU	WOWO	
WCCO	WMT	KMOX		WNAX KFPY	KOIL KOIN
KRLD KHJ	KLZ KFRC	KDYL	KOL	AFF I	NOIN
10:00-11:00	Lucky St	rike Dan	ce Orche	stra	
WEAF	WEEI	WJAR	WTAG WWJ	WCSH WSAI	WFI WBEN
WRC KSD	WGY WOW	WCAE WKY	WOAI	KOA	KSL
		WHAS	WSM	WMC	WSMB
WTMJ KYW	KVOO	WDAF	WJAX WSB	KPRC WFAA	WEBC KFSD
WRVA KTAR	WFLA (KGO	WSUN KGW	KFI	KOMO	
off 10:3	0)	(WOC	WHO		on 10:30)
11:30-12:00		oway and WOW	His Ord WFI	hestra KSTP	WJDX
WEAF WDAF	WWJ WTAM		WHO	WIBO	WGY
WCAE					
11:30-12:00 WABC	WKBW	oundup 7 WEAN	WNAC	WPG	WCAU
WLBW			WTAR	WADC	WWNC
WXYZ	WSPD	WDOD) WLAC	WDSU	
WTAQ CFRB	wcco	KMBC	KFH	WACO	KLZ
12:00-12:30	Ozzie N	elson and	His Orc	hestra	
WABC	WFBL	WKBV	V WNAC	WPG	WCAU
WCAO WSPD		WADC WBRC		W X Y Z W T A Q	
worD	11 DAO	11 DILO			

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	WCCO		WMT	KMOX	кмвс	WNAX				
	KFH	KFJF	KLZ							
			Frid							
4:00-4:45 U. S. Marine Band Orchestra WABC WFBL WGR WDRC WORC WPG										
	WCAU		WCAO	WDRU		WPG WHK				
	WAIU	WBT	WXYZ	WBCM	WSPD	WLAC				
	WBRC		WISN	WTAQ	WFBM	KSCJ				
1000	WMT CFRB	KMBC WAAB	KOIL	KFJF	WACO	KLZ				
4:15		adio Guilo	1							
	WJZ	WBAL	WHAM		CKGW	WPTF				
	WJAX KFAB	KGO	KFI	KOMO		KTAR				
	KSL	KSTP KOA	WEBC KYW	WSM KWK	WMC WJR	WREN				
	WLW	WTMJ	WSB	WSMB	KVOO	WGAR WOAI				
	WKY	KPRC	WRVA	WJDX						
5:00	-5:30 Li WABC	ght Opera WKBW		WDDO	WITD	WILC				
	WLBW		WGR WTAR	WDRC WAIU	WHP WKBN	WJAS WBT				
	WXYZ WISN		WSPD	WREC	WLAC	WBRC				
			WCCO	KSCJ	KMOX	WDAY				
	KOIL KLZ	KFH CFR B	KFJF	KRLD	KTRH	KTSA				
5:30	-5:45 Be	enjamin N	loore Tri	angle						
	WEAF	WTAG	WJAR	WCSH	WLIT	WRC				
	WGY KSD	WBEN	WCAE	WTAM		WSAI				
	KFYR	WDAF WJAX	KSTP WIOD	WEBC WFLA	WRVA WSUN	WPTF KVOO				
	KPRC	WOAI	WKY	WEEI	WTIC	KYW				
c	WDAY		_							
6:00	- 6:30 W Wabc	inegar's B WGR	arn Orc		WIDW	WOLO				
	WTAR	WADC	WFAN WWNC	WJAS WDOD	WLBW WLAC	WCAO WDSU				
	WISN	WTAQ	WBBM		KRLD	KLZ				
	KOH	KFRC								
	•8:00 M WEAF	ajor Bowe WJAR	wCSH	WLIT	WBEN	WCAE				
	wwj	WENR	WOC	WHO	KSTP	WHAS				
	WMC	WSB	WSMB	KOA	KGO	KECA				
7 20	KGW	комо	KTAR							
1:30	WGR	d Goose . WCAU	Adventui WJAS	WLBW	WCAO	WTAR				
	WDBJ	WADC	WKRC	WAIU	WKBN	WWNC				
	WBT	WTOC	WQAM	WDBO	WDAE	WXYZ				
	WBCM	WDOD	WREC	WLAC	WBRC	WDSU				
	WISN KSCJ	WTAQ WMT	WOWO KMOX	WFBM KMBC	WBBM KLRA	WCCO WNAX				
	KÕĨĹ	WIBW	KFH	KFJF	WRR	KTRH				
	KLZ	KDYL	KOH	WNOX						
7:45-	8:00 Ka Wabc	te Smith WHEC		Swanee	Music	TUTAO				
	WLBW	WTAR	WGR WDBJ	WORC WXYZ	WHP WBCM	WJAS WLAC				
1	WBRC	WDSU	WISN	WTAQ	WFBM	WCCO				
	KSCJ	KMBC	KOIL	KFJF	CFRB	WAAB				
	8:30 Ne WJZ	stie's Pro WBZ	gram WBZA	WHAM	WIBO	17 WW				
1	WREN	KFAB	WJR	WLW	KDKA	KWK WGAR				
8:00-	9:00 Cit	ties Servio	e Conce	rt Orches	tra					
	WEAF WJAR	WEEI	WTIC	WLIT	WRC	WCAE				
1	KSTP	WCSH WTMJ	WOW WKY	KYW WOC	KSD KOA	WDAF WEBC				
	WOAI	KOMO	KGO	KGW	KHQ	KSL				
	WTAG	CKGW	KECA	WHO	WSAI	WTAM				
	WBEN	WWJ e Dutch I	(WFAA	KPRC o	off 8:30)					
0:30-	WABC	WFBL	WGR	WEAN	WDRC	WNAC				
1	WCAU	WJAS	WMAL	WCAO	WADC	WKRC				
	XXYZ	WSPD	WBBM	WCCO	KMOX	KMBC				
	KOIL	cquot Clu	h Ealim							
	VEAF	WEEI	WTIC	WJAR	WTAG	WCSH				
I	VLIT	WRC	wow	WCAE	WSAI	WIBO				
	KSD	WWJ	WDAF	WOC	WHO	WGY				
	VBEN 9-30 Int	erwoven l	Pair							
	VJZ		WMC	KDKA	WJAX	WKY				
Ţ	VREN	KPRC	KWK	WBZ	WBZA	ĸĠŵ				
	VSMB	WIOD	WFAA	WJR	WTMJ	KSTP				
	VHAS VSB		WEBC	WCKY	WSM KSL	WRVA				
	CECA		WOAI KOMO	KOA KHQ	KSL	KGO KTAR				
	VJR.	WGAR								

	True Stor				1.1.1
WABC WCAU			WEAN	WDRC	WNAC
WKRC		WMAL WSPD	WCAO WOWO	WADC WMAQ	WHK KMOX
KMBC		WOLD	1010	MMAQ	TMOA
9:30-9:45 A	merican	Pro-Art	String Q	uartet	
WEAF	WJAR	WTAG	WCSH	WRC	WLIT
WGY 9:30-10:00	WBEN	WCAE			
WJZ	WBZ	WBZA	WJR	KYW	WREN
KSTP	WEBC	WRVA	WMC	WSB	WGAR
WOAI	KOA	KSL	KGO	WKY	WHAS
KGW	KHQ	KOMO	KDKA	WJAX	WJDX
WIOD WLW	WTMJ WSMB	WAPI KFI	WHAM	KWK	WSM
9:45-10:00 '	'Saki Get	Rich"			
WEAF	WJAR	WTAG	WCSH	WRC	WLIT
WGY	WCAE	KSD	WBEN	WENR	
10:00-10:30 WJZ				1/3/10	
	KDKA KPRČ	WBZ WJR	WBZA WTMJ	KYW	KWK
WSM	WSB	WOAI	KOA	WEBC WSMB	WHAS KSL
KGW	комо	KHQ	WMC	KFI	WBAP
WCKY	KTHS	KSTP	KV00	WKY	
10:00-10:30 WEAF	Kodak V WJAR	Veek-End	Program	1 11/17/7	VOD
WSAI	WRC	WCSH WBEN	WCĂE WLIT	WWJ WTAG	KSD
WTAM	WOW	WENR	KGO	KGW	WGY KOMO
KHO	KOA	KSL	KULYD	KFSD	KFI
10:00-10:30	Van Heu	sen Prog	am	WDDC	
WABC WCAU	WFBL WJAS	WKBW WMAL	WEAN	WDRC	WNAC
WKRC		WXYZ	WCAO WSPD	WADC WDSU	WHK WMAQ
. WCCO	KMOX	KMBC	KOIL		WINIVQ.
10:30-11:00			ne .		
WABC	WFBL	WKBW		WDRC	WNAC
WCAU WKRC	WJAS WXYZ	WMAL WSPD	WCAO WOWO	WADC WBBM	WHK
KMBC	KOIL			W DDIW	KMOX
10:30-11:00	RKO The	eatre of t	he Air		
WEAF	WEEI	WJAR	WTAG	WLIT	WGY
WCAE	WWJ	WSAI	WIBO	KSD	WDAF
WRVA WOC	WJAX WJDX	WIOD KGO	WMC KTHS	WSB WOAI	WSMB WKY
WRC	KOA				KOMO
	NUA	KLIW	KF1		
KTAR	KFSD	KGW WCSH	KFI WHO	KHQ WOŴ	KSL
KTAR WTAM	KFSD WFLA	WCSH WSUN			
KTAR WTAM 10:45-11:00	KFSD WFLA The Rag	WCSH WSUN amuffins	WHO WBEN	WOŴ	KSL
KTAR WTAM 10:45-11:00 WJZ	KFSD WFLA The Rag WHAM	WCSH WSUN amuffins	WHO		
KTAR WTAM 10:45-11:00 WJZ WENR	KFSD WFLA The Rag WHAM CFCF	WCSH WSUN amuffins WGAR	WHO WBEN WREN	WOŴ KDKA	KSL WBAL
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC	KFSD WFLA The Rag WHAM CFCF Fletcher WHEC	WCSH WSUN amuffins WGAR Henderso WDRC	WHO WBEN WREN	WOŴ KDKA	KSL WBAL
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW	KFSD WFLA The Rag WHAM CFCF Fletcher WHEC WCAO	WCSH WSUN amuffins WGAR Henderso WDRC WDRC WTAR	WHO WBEN WREN on and his WORC WDBJ	WOŴ KDKA Orchest WCAU WKBN	KSL WBAL WJAS WWNC
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ	KFSD WFLA The Rag WHAM CFCF Fletcher I WHEC WCAO WBCM	WCSH WSUN amuffins WGAR Henderso WDRC WTAR WDOD	WHO WBEN WREN on and his WORC WDBJ WLAC	WOW KDKA Orchest WCAU WKBN WBRC	KSL WBAL WJAS WWNC WDSU
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXPZ WISN	KFSD WFILA The Rag WHAM CFCF Fletcher I WHEC WCAO WBCM WTAQ	WCSH WSUN amuffins WGAR Hendersc WDRC WTAR WDOD KSCJ	WHO WBEN WREN on and his WORC WDBJ WLAC WMT	WOW KDKA Orchest WCAU WKBN WBRC KLRA	KSL WBAL WJAS WWNC WDSU WNAX
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH KFPY	KFSD WFLA The Rag WHAM CFCF Fletcher I WHEC WCAO WBCM WTAQ KFJF	WCSH WSUN amuffins WGAR Henderso WDRC WTAR WDOD KSCJ KRLD	WHO WBEN WREN m and his WORC WDBJ WLAC WMT KTSA	WOW KDKA Orchest WCAU WKBN WBRC KLRA KLZ	KSL WBAL WJAS WWNC WDSU
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXBW WXSV WISN KFH KFPY 11:30-12:00	KFSD WFLA The Rag WHAM CFCF Fletcher I WHEC WCAO WBCM WTAQ KFJF Vincent L	WCSH WSUN amuffins WGAR Henderso WDRC WTAR WDOD KSCJ KRLD opez and	WHO WBEN WREN on and his WORC WDBJ WLAC WMT KTSA His Orch	WOW KDKA Orchest WCAU WKBN WBRC KLRA KLRA KLZ estra	KSL WBAL WJAS WWNC WDSU WNAX KDYL
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH KFPY 11:30-12:00 WEAF	KFSD WFLA The Rag WHAM CFCF Fletcher I WHEC WCAO WBCM WTAQ KFJF Vincent L WGY	WCSH WSUN amuffins WGAR Hendersc WDRC WTAR WDOD KSCJ KRLD opez and CKGW	WHO WBEN WREN MORC WDBJ WLAC WMT KTSA His Orch WTIC	WOW KDKA Orchest WCAU WKBN WBRC KLRA KLZ estra WOC	KSL WBAL WJAS WWNC WDSU WNAX KDYL WHO
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KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH KFPY 11:30-12:00 WEAF (WRC on 11:45 11:30-12:00 WABC	KFSD WFIA The Rag WHAM CFCF Fletcher I WHEC WCAO WBCM WTAQ KFJF Vincent L WGY WWJ of (WFJC Ben Bern WFBL	WCSH WSUN (amuffins WGAR Hendersc WDRC WDRC WDRC WTAR WDOD KSCJ KRLD opez and CKGW f 11:15) (KSD or WLIT o ie and hi: WHEC	WHO WBEN WREN on and his WORC WDBJ WLAC WMTI KTSA His Orch WTIC (KOA 11:30) ff 11:30) s Orchest WEAN	WOW KDKA Orchest WCAU WKBN WBRC KLRA KLZ estra WOC KSTP (WCFL)	KSL WBAL WJAS WWNC WDSU WNAX KDYL WHO WDAF on 11:15- WNAC
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH 11:30-12:00 WEAF (WRC on 11:48 11:30) 11:30-12:00 WABC WPG	KFSD WFLA The Rag WHAM CFCF Fletcher J WHEC WCAO WFAQ KFJF Vincent L WGY WWJ of (WFJC Ben Bern WFBL WIP-WH	WCSH WSUN amuffns WGAR Hendersc WDRC WTAR WDOD KSCJ KRLD opez and CKGW f 11:15) (KSD or WLIT o WLIT o WLIT o FAN	WHO WBEN WREN On and his WORC WDBJ WLAC WMT KTSA His Orch WTIC (KOA a 11:30) ff 11:30) s Orchest WEAN WEAN	WOW KDKA Orchest WCAU WKBN WBRC KLRA KLZ estra WOC KSTP (WCFL (WCFL (WCFL)	KSL WBAL WJAS WDASU WDSU WNAX KDYL WHO WDAF on 11:15- WNAC WCAO
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KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH 11:30-12:00 WEAF (WRC on 11:42 11:30) 11:30-12:00 WABC WPG WTAR WBCM WISN KLRA 12:00-1:00 F WEAF	KFSD WFLA WFLA Fletcher Fletcher WHECC WCAO WBCM WTAQ KFJF WWJoff (WFJC Ben Bern WFBL WFDL WFDL WFDL WFDL WFDL WTAQ WTAQ WTAQ WTAQ WTAQ WTAQ WTAQ WTAQ	WCSH WSUN anwuffns WGAR Henderac WDRC WDRC WDRC WTAR WDOD KSCJ KRLD opez and CKGW f 11:15) (KSD or WLIT o ie and hi WHEC FAN WADC WHEC FAN WADC WAT KFH ny and H WGY Satur (Cocheast WLBZ WCAO	WHO WBEN WREN MORC WDDJ WLAC WMT KTSA His Orch WTIC (KOA 11:30) of 11:30) of 11:30) ff 11:30) ff 11:30 ff A ff A ff A ff A ff A ff A ff A ff	WOW KDKA Orchest WCAU WKBN WKAU KLRA KLZ estra WOC KSTP (WCFL WMAL WWNC WBRC KMOX KLZ tra WMC WBRC	KSL WBAL WJAS WJAS WDSU WNAX KDYL WHO WDAF On 11:15- WNAC WCAO WXYZ WDSU KMBC KDYL KPRC
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KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH 11:30-12:00 WEAF (WRC ON 11:42 11:30) 11:30-12:00 WABC WPG WTAR WBCM WISN KLRA 12:00-1:00 P WEAF 1:30-2:00 Sa WABC WJAS WAIU WLAC 4:30-5:00 Sp WABC	KFSD WFLA The Rag WHAM CFCF Fletcher J WHEC WCAO WBCM WTAQ KFJF Vincent L WGY WTAQ KFJF (WFGC Ben Bern WFBL WIP-WI WDBJ WDDJ WDDJ WDDJ WDDJ WDDJ WTAQ WHAZ WHAZ WHAZ WHAC WHAC WHAC WHAC WHAC WHAC WHAC WHAC	WCSH WSUN amuffns WGAR Henderse WDRC WTAR WDOD KSCJ KRLD opez and CKGW f 11:15) (KSD or WLIT o WLIT o WLIT o WHEC FAN WADC WRC WADC WRC WADC WRC WADC WADC WADC WADC WADC WADC WADC WAD	WHO WBEN WREN WREN WORC WDBJ WLAC (KOA * 07 * 07 * 07 * 07 * 07 * 07 * 07 * 07	WOW KDKA Orcheat WCAU WKBN WBRC KLRA KLZ estra WOC KSTP (WCFL WMAL WWNC WMAL WWNC WMAL WWNC WMAL WMC WMC WCAU WDBJ WSPD WORC	KSL WBAL WJAS WJAS WDSU WNAX KDYL WHO WDAF On 11:15- WNAC WCAO WXYZ WDSU KMBC KDYL KPRC
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH KFPY 11:30-12:00 WABC WPG WTAR WBCM WISN KLRA 12:00-1:00 P WEAF 11:30-2:00 Sa WABC WJAS WABC WJAS WABC WJAS	KFSD WFLA The Rag WHAM CFCF Fletcher WHECC WCAO WBCM WTAQ KFJF Vincent L WGY WWJO (WFJC Ben Bern WFBL WIP-WI WIP-WI WDBJ WDOD WTAQ WIP-SL WI	WCSH WSUN amuffins WGAR Henderac WDRC WTAR WDOD KSCJ KRLD opez and CKGW f 11:15) (KSD opez and hi KSCJ KRLD opez and CKGW f 11:15) (KSD opez and hi WLIT o WLIT O O O COCHARA WLIT O WLIT O O O O O O O O O O O O O O O O O O O	WHO WBEN WREN MAC WORC WDBJ WLAC WMT KTSA His Orche WTIC (KOA 11:30) S Orchest WEAN WLBW WKBN WLAC KSCJ KTSA is Orches KYW day WEAN WEAN WEAN WEAN WAC WMTAR	WOW KDKA Orchest WCAU WKBN WBRC KLRA KLZ estra WOC KSTP (WCFL WWOC KSTP (WCFL WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMAL WMC WMC WMAL WMC WMC WMAL WMC WMC WMC WMC WMC WMC WMC WMC WMC WMC	KSL WBAL WJAS WWNC WDSU WNAX KDYL WHO WDAF on 11:15- WNAC WCAO WXYZ WDAC WCAO WXYZ WDSU KMBC KDYL KPRC WHP WKRC WDOD
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH KFPY 11:30-12:00 WEAF (WRC 0n 11:45 11:30) 11:30-12:00 WABC WPG WTAR WBCM WISN KLRA 12:00-1:00 P WEAF 1:30-2:00 Sa WABC WJAS WAIU WLAC 4:30-5:00 Sp WABC	KFSD WFLA WFLA WHAM CFCF Fletcher WHEC WCAO WHEC WHEC WFJC Ben Bern WFBL WFJC WFJC WFJC WFJC WFJC WFJC WFJC WFJC	WCSH WSUN anuffns WGAR Henderac WDAC WTAR WDOD KSCJ KRLD opez and CKGW F 11:15) (KSD or WLIT o ie and his WHIC WHIC Orchest WHT KFH ny and H WGY Satur Orchest WLBZ WCAO WXYZ WIBW enade WCAO WXYZ	WHO WBEN WREN MARC WDBJ WLAC WMT KTSA His Orche WTIC (KOA 11:30) ff 11:30) ff 11:30 ff 11:30) ff 11:30 ff 1	WOW KDKA Orchest WCAU WKBN WBRC KLZ estra WOC KSTP (WCFL WOC KSTP (WCFL WOC KSTP (WCFL WDRC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WAC WAC WAC WAC WAC WAC WAC WAC WAC WAC	KSL WBAL WJAS WJAS WDSU WDSU WNAX KDYL WHO WDAF on 11:15- WNAC WCAO WCAO WXYZ WDSU KMBC KDYL KPRC WHP WKRC WDOD
KTAR WTAM 10:45-11:00 WJZ WENR 11:00-11:15 WABC WLBW WXYZ WISN KFH KFPY 11:30-12:00 WABC WPG WTAR WBCM WISN KLRA 12:00-1:00 P WEAF 11:30-2:00 Sa WABC WJAS WABC WJAS WABC WJAS	KFSD WFLA The Rag WHAM CFCF Fletcher WHECC WCAO WBCM WTAQ KFJF Vincent L WGY WWJO (WFJC Ben Bern WFBL WIP-WI WIP-WI WDBJ WDOD WTAQ WIP-SL WI	WCSH WSUN anuffns WGAR Henderac WDAC WTAR WDOD KSCJ KRLD opez and CKGW F 11:15) (KSD or WLIT o ie and his WHIC WHIC Orchest WHT KFH ny and H WGY Satur Orchest WLBZ WCAO WXYZ WIBW enade WCAO WXYZ	WHO WBEN WREN WORC WDBJ WLAC WMT KTSA His Orch WTIC (KOA 11:30) S Orchest WEAN WLBW WKBN WLAC KSCJ KTSA S Orchest KTSA S Orchest KTSA WEAN WLAC WCAC WEAN WTAR WBCM	WOW KDKA Orchest WCAU WKBN WBRC KLZ estra WOC KSTP (WCFL WOC KSTP (WCFL WOC KSTP (WCFL WDRC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WMAC WMAL WAC WAC WAC WAC WAC WAC WAC WAC WAC WAC	KSL WBAL WJAS WWNC WDSU WNAX KDYL WHO WDAF on 11:15- WNAC WCAO WXYZ WDAC WCAO WXYZ WDSU KMBC KDYL KPRC WHP WKRC WDOD

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KSCJ WMT KMOX KMBC WDAY KOIL WIBW KFJF KRLD KTRH KTSA KLZ KOL KFRC -5:30 Peter van Steeden and His Orchestra WJZ WHAM WLW WJDX WBZ WBZA 5:00-5:30 Peter van Steeden and His Orchestra WJZ WHAM WLW WJDX WBZ WBZA WGAR WGAR 6:00-6:30 Ted Husing's Sportslants WABC WFBL WFAN WHP WLBW WTAR WDBJ WADC WHK WAIU WBT WBCM WREC WLAC WBRC WISN WOWO WBBM WCCO KSCJ WDAY KOIL WIBW KFH KFJF KRLD KTRH KTSA KLZ KVI KOL KFPY KHJ KFRC CFRB 6:00-6:15 Highroad of Adventure WEAF WTIC WRC WTAM WIBO KSD WJDX KOA KGO · KGW KECA KOMO WGY KTAR 6:30-6:45 Smith Ballew and His Orchestra 6:30-6:45 Smith Ballew and His Orchestra WJZ WBZ WBZA WRC KFAB KWK WJZ WBZ WBZA WBCA WRC BFAD AWA 7:00-7:15 Gene Austin, songs WEAF WFI WCAE WWJ WSB KOA KGO WCSH WENR WDAY WTIC KFYR 7:00-7:15 Morton Downey with Nat Brusiloff WABC WHEC WDRC WORC WHP WJAS WLBW WMAL WTAR WDBJ WADC WHK WAIU WKBN WWNC WBCM WSPD WDOD WDSU WTAQ WOWO WFBM KSCJ WMT KLRA KFH KFJF KRLD KFPY KFRC CFRB 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 WBEN WWJ WOC WHO WOW WEBC WOAI KOA KGO KECA KOMO KHQ KTAR WJDX WEEI 7:15-7:30 Armand Vecsey and his Orchestra WHEC WGR WEAN WNAC WJAS WLBW WMAL WCAO WTAR WADC WHK WWNC WSPD WDOD WDSU WTAQ KFH KRLD WACO KOH KFRC 7:30-7:45 Rose of the Goldbergs WJZ WHAM KWK WREN WIBO WSB WJDX WSMB WAPI WGAR 7:30-8:00 Club Valspar — Ted Lewis on 7:30-7:45) (WHAS off 7:45) (WBAF on 7:45) 8:15-8:30 Ben Alley, Tenor, with Ann Leaf WABC WKBW WGR WDRC WORC WPG WFAN WHP WJAS WLBW WMAL WCAO WDBJ WADC WKBN WBT WXYZ WBCM WSPD WREC WLAC WBRC WISN WOWO WFBM WMAQ KSCJ KMOX WDAY WNAX KOIL KFH KFJF KTRH KTSA KVI KOIL KFH KFPY KHJ KFRC 8:15-8:30 Radiotron Varieties WEAF WEEI WJAR WTAG WCSH WRC WGY WBEN WCAE WTAM WWJ WSAI WSAI WIBO KSD WOC WTMJ WRVA WJAX WSM WMC WSB WHO WOW WDAF WHO WOW WDAF WIOD WFLA WSUN WSMB WJDX KPRC WSUN WSM WMC WOAI WKY KOA KSL KTAR KFSD KGO KGW KOMO KHQ 8:30-9:00 The Silver Flute WEAF WEEI WTAG WCSH WRC WFI WGY WCAE WWJ WSAI KSD 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 8:45-9:00 Mary Charles -- Nat Brusiloff's Orchestra WABC WDRC WORC WCAU WHP WJAS WLBW WCAO WTAR WDBJ WADC WAIU WKBN WWNC WXYZ WBCM WSPD WDOD WREC WLAC WDSU WISN WTAQ WOWO WFBM KSCJ WMT KMOX KMBC KLRA WNAX KFH KRLD KLZ KFPY KFRC CFRB

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WJAS WPG WJAS' WAIU WBCM WTAQ WGL CFRB WHP 9:00-10:00 General Electric Hour WEAF WEEI WJAR WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ WRC WSAI WIBO KSD WEBC WOW WDAF WEBC WRVA WJAX WAPI WSMB WBAP KSL KGO KFI WSAI WIBO RSD WOC W WTMJ WKY RSTP WEBC W WHAS WMC WSB WAPI W KPRC WOAI KOA KSL KU KGW KOMO KHQ KFSD K 9:30-10:00 Columbia Educational Features KTAR 9:30-10:00 Columbia Educational Features WABC 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 KOIL WIBW KFH KFJF KTRH KTSA KLZ KOL KFRC 10:00-10:30 Cuckoo WJZ WBZ WBZA WBAL KDKA WHAM WGAR WLW WIBO KWK WREN WJR CFCF CKGW 10:00-11:00 Lucky Strike Dance Orchestra CFCF CKGW 10:00-11:00 Lucky Strike Dance Orchestra WEAF WEEI WJAR WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ WSAI WGN KSD WHO WOC WOW WDAF WTMJ KSTP WEBC WRVA WJAX WIOD WFLA WSUN WHAS WMC WSB WSMB WJDX KVOO WFAA KPRC WOAI WKY KOA WSI KCO KFI WGW 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 WNCW 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 CFPB WKY KOA KOMO KHQ KSL KGO KFL KGW 11:00-11:15 Bert Lown and His Biltmore Orchestra WABC WFBL WHEC WKBW WDRC WORC WCAU WHP WLBW WMAL WTAR WDBJ WABC WHP WLBW WCAU WHP WLBW WADC WHK WBT WXYZ WLAC WBRC WDSU WISN WGL WCCO KSCJ WMT KOIL KFH KFJF WACO WXYZ WBCM WSPD WTAQ WFBM KMOX WNAX WACO KLZ CFRB 11:00-11:15 Troubadour of the Moon WEAF WFI WCAE WWJ WSAI WOC WHO WOW WHO WOW 11:15-11:45 Hal Kemp and His Orchestra WEAF WTIC WFI WRC WWJ WGY KSD WOC WHO WEEI WCAE WDAY CFCF WTAM WOW WDAF CFCF WTAM WOW WDAF CFCF WTAM WOW WDAF 11:30-12:00 Will Osborne and His Orchestra WABC WFBL WHEC WKBW WDRC WORC WPG WCAU WHP WLBW WMAL WCAO WTAR WDBJ WADC WHK WBT WBCM WSPD WLAC WBRC EDSU WTAQ WFBM WGL WCCO KSCJ WMT KMOX KMBC WNAX KFH KFJF KLZ CEPB CFRB 11:45-12:00 Little Jack Little WEAF WFI WCAE WTAM KSD WHO WDAF WFLA 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 WOW

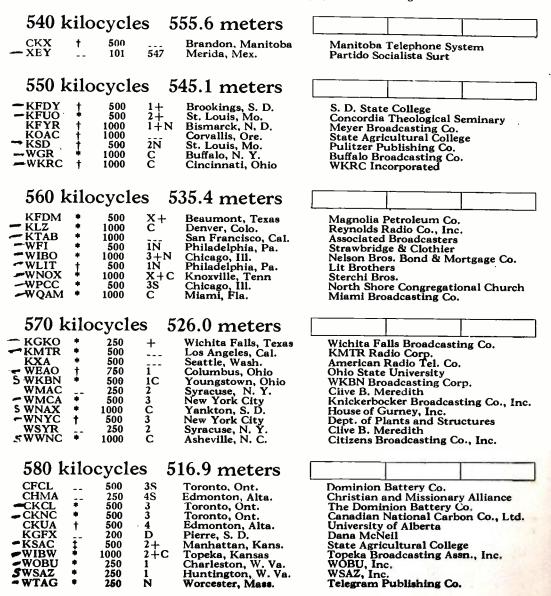
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KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; ¢ 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 frequencies; 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.



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508.2 meters 590 kilocycles KCYS. Columbus Commercial & Radio Co. Louis Wasmer, Inc. Nebraska Wesleyan University Havana, Cuba Spokane, Wash. Lincoln, Nebr. Boston, Mass. Berrien Springs, Mich. 1400 588 CMW 670 1000 +NKHQ WCAJ 500 1 MTRS. 1000 Ň Edison Elec. Illuminating Co. WEE 1 447.5DY WKZO, Inc. WKZO 1000 Woodmen of the World Gonzales Zamacona y Cia. 1000 **1N** Omaha, Nebr. ٠ DIAL 588 Mexico City XEZ 500 600 kilocycles 499.7 meters **Canadian National Railways** CNRO 500 3 Ottawa, Ont. San Diego, Cal. Storrs, Conn. Airfan Radio Corp. +NKFSD 500 2+ C Conn. Agricultural College WCAC 250 Monumental Radio, Inc. Bridgeport Broadcasting Station, Inc. Waterloo Broadcasting Co. Baltimore, Md. 250 Bridgeport, Conn. Waterloo, lowa Memphis, Tenn. 2D 250 --WICC 500 C ÷Ο WREC, Inc. -WREC 500 610 kilocycles 491.5 meters Don Lee, Inc. Kansas City Star Co. 1000 San Francisco, Cal. KFRC WDAF C Kansas City, Mo. Philadelphia, Pa. N 2C 1000 Keystone Broadcasting Co., Inc. WFAN 500 Gimbel Bros. Co. 500 2C Philadelphia, Pa. Cleveland Radio Broadcasting Corp. -WJAY t 500 D Cleveland, Ohio 620 kilocycles 483.6 meters 1000 Oregonian Publishing Co. +NPortland, Ore. KGW +N KTAR Broadcasting Co. -KTAR WFLA WLBZ Phoenix, Arizona Clearwater, Fla. 500 Chamber of Commerce 1+N1000 Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. Maine Broadcasting Co., Inc. C 500 Chamber of Commerce $\bar{1}+N$ -WSUN 1000 +NMilwaukee Journal -WTMJ 1000 CUT 475.9 meters 630 kilocycles Victoria Broadcasting Association Victoria, B. C. CFCT 500 ---OUT ON DOTTED Winnipeg Grain Exchange Canadian National Railways Stephens College SCJGX -CNRA 500 Yorkton, Sask ---500 Moncton, N. B. ī Columbia, Mo. Evansville, Ind. 500 KFRU Evansville on the Air, Inc. -WGBF 500 1 ‡ Washington, D. C. M. A. Leese +C-WMAL 250 State Marketing Bureau 1 Jefferson City, Mo. -WOS 500 5 -XET Mexico Music Co., S. A. Monterrey, Mex. 500 640 kilocycles 468.5 meters E. Fontaine Quebec, Que. Cienfuegos, Cuba LINES 100 645 CHRC Arturo Hernandez 645 CMHJ KFI 40 * Los Angeles, Cal. Columbus, Ohio Earle C. Anthony, Inc **5**000 NX American Insurance Union - WAIU C Dn ٠ 500 State College of Agriculture Secretaria de Guerra y Marina WOI ٠ 5000 D Ames, Iowa XFG 2000 638 Mexico City 650 kilocycles 461.3 meters Queen City Broadcasting Co. Seattle, Wash. Nashville, Tenn. **KPCB** 100 Dn National Life & Accident Ins. Co. WSM 5000 Ñ 454.3 meters 660 kilocycles Chilliwack Brdcstg. Co., Ltd. Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. CHWK 100 Chilliwack, B. C. CIRM CIRW CMCO WAAW 500 665 Moose Jaw, Sask. Fleming, Sask. Havana, Cuba Omaha, Neb. 500 665 10.0 J. L. Stowers Omaha Grain Exchange 225 ÷ D 500 National Broadcasting Co., Inc. WEAF t 50000 N New York City Travelers Broadcasting Service, Inc. WTIC 5000 N Hartford, Conn. 670 kilocycles 447.5 meters WMAQ, Inc WMAO 5000 Chicago, Ill. 674 XER 101 Mexico City Armida y Cia. ſ 37]

680 kilocycles 440.9 meters	
KFEQ * 2500 D St. Joseph, Mo. * KPO † 5000 N San Francisco, Cal. * WPTF 1000 N Dn Raleigh, N. C. XETF 500 682 St. Joseph, Mo. 8WMC 500 N DR St. Joseph, Mo.	Scroggin & Co., Bank Hale Bros. & The Chronicle Durham Life Insurance Co. Manuel Angel Fernandez & Cia. Wesley United Church
690 kilocycles 434.5 meters	· · · · · · · · · · · · · · · · · · ·
 CFAC	The Calgary Herald The Western Farmer Albertan Publishing Co., Ltd. Gooderham & Worts, Ltd. Canadian National Railways Canadian Pacific Railways U. S. Navy Canadian Marconi Co.
700 kilocycles 428.3 meters	
- WLW + 50000 N Cincinnati, Ohio	Crosley Radio Corp.
710 kilocycles 422.3 meters	
- KMPC * 500 Dn Los Angeles, Cal. - WOR * 5000 Newark, N. J. - XEN † 1000 711 Mexico City	R. S. MacMillan Bamberger Broadcasting Service, Inc. Cia. Civil de Inversiones
720 kilocycles 416.4 meters	
✓ WGN † 25000 N Chicago, III.	Chicago Tribune
730 kilocycles 410.7 meters	[]
CHLS 50 1 Vancouver, B. C. - CHYC • 5000 2S Montreal, Que. - CKAC • 5000 2C Montreal, Que. CKCD 50 1 Vancouver, B. C. - CKMO 50 1 Vancouver, B. C. - CKWX † 100 1 Vancouver, B. C. - CKWX † 100 1 Vancouver, B. C. - CMK 3150 Havana, Cuba - CNRM • 5000 2 Montreal, Que. - XEM † 500 Tampico; Mex.	W. G. Hassell Northern Electric Co., Ltd. La Presse Publishing Co., Ltd. Vancouver Daily Province United Church of Canada Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon Cuban Broadcasting Co., Hotel Plaza Canadian National Railways Herbert H. Denny y Cia.
740 kilocycles 405.2 meters	· · · · · · · · · · · · · · · · · · ·
 KMMJ * 1000 Dn Clay Center, Neb. WSB 5000 N Atlanta, Ga. 	The M. M. Johnson Co. Atlanta Journal Co.
750 kilocycles 399.8 meters	
TIC 50 San Jose, Costa Rica WJR † 5000 N Detroit, Mich.	WJR, The Goodwill Station, Inc.
760 kilocycles 394.5 meters	
 KVI * 1000 C Dn Tacoma, Wash. WBAL * 1000 N Baltimore, Md. WEW * 1000 D St. Louis, Mo. WJZ † 30000 N New York City 	Puget Sound Broadcasting Co., Inc. Consolidated Gas, Elec. & Power Co. St. Louis University National Broadcasting Co., Inc.
770 kilocycles 389.4 meters	
KFAB * 5000 1N Lincoln, Nebr. - WBBM * 25000 1C Chicago, Ill. S- WJBT 25000 1S Chicago, Ill.	KFAB Broadcasting Co. The Atlas Co., Inc. The Atlas Co., Inc.
780 kilocycles 384.4 meters - CKY 5000 3 Winnipeg, Manitoba - CMGH 60 Matanzas, Cuba - CNRW 5000 3 Winnipeg, Manitoba KELW * 500 2 Burbank, Cal. - KTM * 500 2+ Los Angeles, Cal. - WEAN * 250 +C Providence, R. I.	Manitoba Telephone System Alberto Alvarez Canadian National Railways Union Bank & Trust Co. Pickwick Broadcasting Corp. Shepard Broadcasting Service, Inc.
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		IN	UCA D	I I'REQUERCIES
	- WISJ - WPOR - WPOR - WTAR - XEW	* 250 500 500 * 500 † 5000	+ 1 1C	Madison, Wis. Memphis, Tenn. Norfolk, Va. Norfolk, Va. Mexico City
	790 k	ilocycle	es 3	79.5 meters
	CMBS CMHC KGO WGY	150 500 7500 50000	N N	Havana, Cuba Tuinucu, Cuba San Francisco, Cal. Schenectady, N. Y.
	800 k	cilocycle	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	<i>kilocycle</i>	es 3	70.2 meters
	WCCO WPCH	* 7500 * 500	C D	Minneapolis, Minn. New York City
	820 k	kilocycl	es 3	65.6 meters
	WHAS XFI	† 10000 1000		Louisville, Ky. Mexico City
	830 1	kilocycl	es 3	61.2 meters
	CMGA ~KOA	$\frac{100}{100}$	834 N	Colon, Cuba Denver, Colo.
	- WHDH - WRUF	1000 5000	D Dn	Boston, Mass. Gainesville, Fla.
	840 1	rilocycl	es 3	56.9 meters
	- CFCA	† 500	1	Toronto, Ont.
	CHCT CKLC	† 1000 † 1000	2	Red Deer, Alta. Red Deer, Alta.
	CMC CNRD CNRT	* 500 † 1000 * 500	2	Havana, Cuba Red Deer, Alta. Toronto, Ont.
		cilocycl		52.7 meters
5	KWKH	* 10000	1	Shreveport, La.
	- WWL XEJ	* 5000 * 101	1 857	New Orleans, La. Juarez, Mex.
	860 1	cilocycl	es 3	48.6 meters
	CMJE KMO	₹ 1 1 1 1 1 1 1 1 1 1	856 + Dri	Camaguey, Cuba Tacoma, Wash.
	WABC WBOO	* 5000 5000	XC	New York City New York City
	WHB XFX	* 500 500	D	Kansas City, Mo. Mexico City, Mex.
	870 1	kilocycl	es 3	844.6 meters
	WENR	50000 † 50000	1N 1XN	Chicago, Ill. Chicago, Ill.
	880 1	kilocycl	es 3	340.7 meters
	CHML CJCB	* 50 • 50	4	Hamilton, Ont. Sydney, N. S.
	CKCI	‡ 22.5 50	33	Quebec, Que. Quebec, Que.
	- KFKA	‡ 50 500	3 2+	Quebec, Que. Quebec, Que. Quebec, Que. Quebec, Que. Greeley, Colo.
	- KPOF	* 500 * 500	2	Denver, Colo.
	WCOC WGBI	• 500	+	Meridian, Miss. Scranton, Pa. Scranton, Pa.
	- WOAN	* 250 • 250 • 500	1	Scranton, Pa. Iowa City, Iowa

Memphis Commercial-Appeal, Inc. WTAR Radio Corp. WTAR Radio Corp. Mexico Music Co. E. Artalejo Frank H. Jones National Broadcasting Co., Inc. General Electric Co. KCYS. 880 Carter Publications, Inc. News & Journal MTRS. Fernando Pazos 340.7Gobierno del Estado de Aguascalientes DIAL Northwestern Broadcasting, Inc. Eastern Broadcasters, Inc. Courier-Journal & Times Sria. de Ind., Commercio y Trabajo Leopoldo V. Figueros National Broadcasting Co., Inc. Matheson Radio Co. , Inc. University of Florida Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Alberta Pacific Grain Co., Ltd. Cuban Telephone Co. Canadian National Railways Canadian National Railways CUT OUT ON DOTTED LINES Hello World Broadcasting Corp. Lovola University Juan Buttner Manuel Fernandez KMO, Inc. Atlantic Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Co. Secretaria de Educacion Publica National Broadcasting Co., Inc. Agricultural Broadcasting Co. Maple Leaf Radio Co., Ltd. N. Nathanson Le "Soleil," Ltd. G. A. Vandry Canadian National Railways Midwestern Radio Corp. Tribune Publishing Co. Pillar of Fire, Inc. Mississippi Broadcasting Co., Inc. Scranton Broadcasters, Inc. Scranton Times

Wisconsin State Journal Bdcsg. Co.

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University of Iowa

890 kilocycles 336.9 meters

- CFBO	*	500		St. John, N. B.
CKCO	t	100		Ottawa, Ont.
CKPR	•	50		
	1-			Port Arthur, Ont.
CMCF	T	250		Havana, Cuba
CMX	*	500		Havana, Cuba
KFNF		500	2 +	
- KGIF	÷-		4 T	Shenandoah, Iow
	-	250		Little Rock, Ark.
🕶 KUŠD	*	500	2+	Vermillion, S. D.
- WGST		250	Ī∔C	Atlanta, Ga.
-WILL	*			
		250	2+	Urbana, Ill.
-WJAR	*	250	+N	Providence, R. I.
WKAO		500	•	
WMAZ	4			San Juan, P. R.
	1	250	1+	Macon, Ga.
₩MMN	*	250	+	Fairmont, W. Va.
-XES	\$	500		
1120	Ψ	300		Tampico, Mexico

900 kilocycles

KGBU	1	500	
🕶 KHJ	*	1000	Ĉ
KSĚI	*	250	~
- WBEN	۰	1000	Ň
- WJAX	*	1000	Ň
- WKY	*	1000	Ň
WLBL	*	2000	D

910 kilocycles

CFQC		500	1
🖛 CHNS	*	500	3
- CJGC	*	5000	2
- CNRH		500	3
- CNRL	*	500	2
CNRS		500	ĩ

920 kilocycles

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

930 kilocycles

- CJCA - CFRC - KFWI - KGBZ S - KMA KROW - WBRC - WDBJ WIBG	* † * * *	500 500 500 500 500 500 250 500	4 1 2+ 1+X +C +C S	Edmonto Kingston San Frand York, Nel Shenandç Oakland, Birmingh Roanoke, Elkins Pa
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940 kilocycles

-KGU	+	1000	
KOIN	*	1000	Ĉ
🗕 WAAT		300	Ď
-WCSH	*	1000	N
-WDAY		1000	N
S-WFIW	*	1000	
WHA		750	D+
XEO		5000	

950 kilocycles

S KFWB	*	1000	
KGHL		1000	
KMBC	*	1000	C
- WRC	1	500	N

2	Port Arthur, Ont. Havana, Cuba Havana, Cuba Shenandoah, Iowa Little Rock, Ark. Vermillion, S. D. Atlanta, Ga. Urbana, Ill. Providence, R. I. San Juan, P. R. Macon, Ga. Fairmont, W. Va.
	Tampico, Mexico

333.1 meters

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

329.6 meters

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

325.9 meters

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

322.4 meters

m, Alta. Ònt. cisco, Cal. br. oah, Iowa Cal. ham, Ala. , Va. irk, Pa.

319.0 meters Honolulu, Hawaii

Portland, Ore. Jersey City, N. J. Portland, Maine Fargo, N. D. Hopkinsville, Ky. Madison, Wis. Mexico City

315.6 meters

Hollywood, Cal.
Billings, Mont.
Kansas City, Mo.
Washington, D. C.

[40]

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. Don Lee, Inc.	
KSEI Broadcasting Association, Buffalo Evening News	Inc.
City of Jacksonville WKY Radiophone Co. Wisconsin Dept. of Markets	

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

······		 	
Republic of	f 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

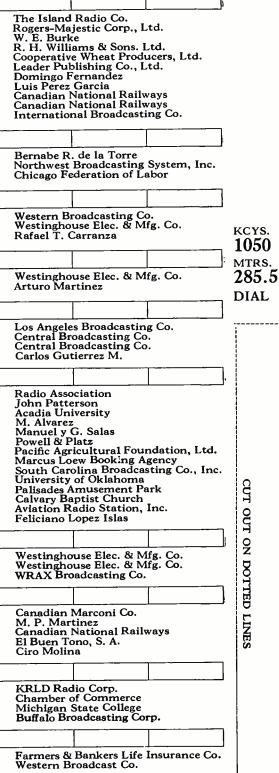
Birmingha	niversity rtainmen R. Miller V Nursery al Broadca m Broadca -Wavland	ts, Inc. Co. sting Corp. asting Co., Inc. I Elec. Corp.
St. Pauls F	'. E. Chure	
Marion A. KOIN, Inc	Mulrony Dadcasting	

Warner Bros. Broadcasting Corp. Northwestern Auto Supply Co., Inc. Midland Broadcasting Co., Inc. National Broadcasting Co., Inc.

			11.44			
	960 1	cilo	ocycle	es 3	12.3 meters	
	-CFCY		250	1	Charlottetown, P. E. I.	The Islan
	-CFRB	•	5000	2C	Toronto, Ont.	Rogers-M
	SCHCK	•	100 500	$\frac{1}{3}$	Charlottetown, P. E. I. Regina, Sask.	W. E. Bur R. H. Will
	CJBR		500	3	Regina, Sask. Regina, Sask.	Cooperati
ł	-CKCK	Ŧ	500	3	Regina, Sask.	Leader Pu
	CMBC CMBD		150 150	965 965	Havana, Cuba Havana, Cuba	Domingo Luis Pere
	CNRR		500	3	Regina, Sask.	Canadian
	- CNRX	*	5000	2 961	Toronto, Ont.	Canadian
	-XED		10000		Reynosa, Mex	Internatio
		cilo	ocycle		09.1 meters	
	CMGF	<u>-</u> -	50	977	Matanzas, Cuba Seattle, Wash.	Bernabe I
	WCFL		5000 1500	Ñ Dn	Seattle, wash. Chicago, Ill.	Northwes Chicago F
	980 1	cilo	ocycle	es 3	05.9 meters	
	- CFCN		500	985	Calgary, Alta.	Western I
	- KDKA	1	50000	N	Pittsburgh, Pa.	Westingh
	XEFE		101		Laredo, Mex.	Rafael T.
	990 1	cilo	ocycle	es 3	02.8 meters	
	- WBZ-A	+	15000	1N	Springfield-Boston	Westingh
	XEK		101		Mexico City	Arturo M
	1000	ki	locyc	les	299.8 meters	
	-KFVD	*	250	Dn	Culver City, Cal.	Los Angel
	- WHO - WOC	-	5000 5000	1N 1N	Des Moines, Iowa Davenport, Iowa	Central B Central B
	XEI	*	101		Morelia, Mex.	Carlos Gu
	1010	ki	locyc	les	296.8 meters	·
	- CFLC		50	3	Prescott, Ont.	Radio Ass
	CKCR		50	3	Waterloo, Ont.	John Pat
	- CKIC		50		Wolfville, N. S.	Acadia Ui M. Alvare
	CMBW CMBZ		150 150		Havana, Cuba Havana, Cuba	Manuel y
	KGGF	1	500	2	S. Coffeyville, Okla.	Powell &
	- WHN	-	500 250	ī	San Jose, Cal. New York City	Pacific Ag Marcus L
	- WIS		500	+C	Columbia, S. C.	South Ca
ć,	WNAD	٠	500	2 1	Norman, Okla.	Universit
	- WPAP		250 250	1	New York City New York City	Palisades Calvary B
	WQAO		250	i	New York City	Aviation
	- XEQ		1000	1015	Juarez, Mex.	Feliciano
	1020	ki	locyc	les	293.9 meters	
	- KFKX	٠	10000	1N	Chicago, Ill.	Westingh
	- KYW WRAX	÷	10000 250	1N D	Chicago, Ill. Philadelphia, Pa.	Westingh WRAX Bi
			locyc	_	291.1 meters	
	<pre></pre>	AVI	1650	N	Montreal, Que.	Canadian
	CMKC	*	150	1034	Santiago de Cuba	M. P. Ma
	CNRV	1	500		Vancouver, B. C.	Canadian El Buen 7
	XEB XEV	т	1000 101	1034	Mexico City, Mex. Puebla, Mex.	Ciro Moli
	1040	ki	locyc	les	288.3 meters	
	-KRLD		10000	1C	Dallas, Texas	KRLD Re
	-KTHS	t	10000	1N	Hot Springs, Ark.	Chamber
	-WKAR -WMAK	:	1000 1000	D Dn	East Lansing, Mich.	Michigan Buffalo B
					Buffalo, N. Y.	
	1050	KI	locyc	ies	285.5 meters	L
	KFBI	:	5000 5000	Dn X	Milford, Kansas Hollywood, Cal.	Farmers & Western I
	- MINA		0000	~	· · ·	
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1060 kilocycles	101 0	
	282.8 meters	
WBAL * 10000 1N	Portland, Ore. Baltimore, Md.	KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co.
- WJAG * 1000 Dn WTIC * 50000 1N	Norfolk, Nebr. Hartford, Conn.	Norfolk Daily News Travelers Broadcasting Service Corp.
1070 kilocycles	280.2 meters	
CMBG 150	Havana, Cuba	Examples Consister
CMBT 150	Havana, Cuba	Francisco Garrigo E. Perera
KJBS * 100 D	Havana, Cuba San Francisco, Cal.	Antonio Capablanca Julius Brunton & Sons Co.
WDZ † 100 D	Carthage, Ill. Tuscola, Ill.	Superior Broadcasting Service James L. Bush
-WTAM * 50000 N	Cleveland, Ohio	National Broadcasting Co., Inc.
1080 kilocycles	277.6 meters	
✓ WBT * 5000 C WCBD' * 5000 1 Dn	Charlotte, N. C.	Station WBT, Inc.
WMBI * 5000 1 Dn		Wilbur Glenn Voliva Moody Bible Institute
- XEH 5000	Monterrey, Mex.	Tarnava y Cia
1090 kilocycles	275.1 meters	[].
- KMOX * 50000 C XEL 10 1091	St. Louis, Mo. Saltillo, Mex.	Voice of St. Louis, Inc.
10,11		Antonio Garza Castro
1100 kilocycles	272.6 meters	
KGDM * 250 DX	Santiago, Cuba Stockton, Cal.	Jose Caluff E. F. Peffer
WLWL * 5000 1 WPG * 5000 1C	New York City Atlantic City .N. J.	Missionary Society of St. Paul WPG Broadcasting Corp.
1110 kilocycles	270.1 meters	WI G Dioadcasting Corp.
СМНІ 15	Santa Clara, Cuba	Laviz y Paz
- KSOO * 2000 Dn - WRVA * 5000 N	Sioux Falls, S. D. Richmond, Va.	Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.
1120 kilocycles	267.7 meters	
CFJC100 CHCS10 4	Kamloops, B. C. Hamilton, Ont.	N. S. Dalgleish & Sons
- CHGS + 100	Summerside, P. E. I.	The Hamilton Spectator R. T. Holman, Ltd.
CJOC † 50 CKOC * 50 4	Lethbridge, Alta. Hamilton, Ont.	Harold R. Carson Wentworth Radio & Auto Sply. Co., Ltd
KFIO † 100 D KFSG * 500 3	Hamilton, Ont. Spokane, Wash.	Spokane Broadcasting Corp.
KMCS * 500 3Y	Los Angeles, Cal. Inglewood, Cal.	Echo Park Evang. Assn. Dalton's, Inc.
KRSC † 50 D KTRH * 500 2C	Seattle, Wash. Houston, Texas	Radio Sales Corp. Rice Hotel
₩DBO * 500 +C	Orlando, Fla.	Orlando Broadcasting Co., Inc.
WDEL † 250 +X WHAD * 250 1	Wilmington, Del. Milwaukee, Wis.	WDEL, Inc. Marquette University
WISN † 250 1C WTAW • 500 2	Milwaukee, Wis. College Station, Texas	Evening Wisconsin Co.
1130 kilocycles	265.3 meters	Agricultural & Mech. College
- KSL * 5000 N		Padio Service Come of Ut 1
- WJJD * 20000 C Dn		Radio Service Corp. of Utah Loyal Order of Moose
- WOV 1000 D XEE * 105	New York City Oaxaca, Mex.	International Broadcasting Corp.
1140 kilocycles	263.0 meters [
CMGD 5 KV00 * 5000 IN	Matanzas, Cuba	Rafael Rodriguez
- KVOO * 5000 1N - WAPI * 5000 1N XETA 500	Tulsa, Okla. Birmingham, Ala. Mexico City	Southwestern Sales Corp. Alabama Polytechnic Institute Manuel Espinosa Tagle
1150 kilocycles	260.7 meters	
CMCO 600	Havana, Cuba	Andres Martinez
CMHA _ 200 1154	Cienfuegos, Cuba	Fox Bross Co.
- WHAM • 5000 N	Havana, Cuba Rochester, N. Y.	Jose Fernandez Stromberg-Carlson Tel. Mfg. Co.
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INDEX D	-	
1160 kilocycles	258.5 meters	
WOWO * 10000 1C WWVA * 5000 1	Ft. Wayne, Ind. Wheeling W. Va.	Main Auto Supply Co. West Virginia Broadcasting Corp.
1170 kilocycles	256.3 meters	
СМКС 30 1176	Santiago de Cuba	Ricardo Arnaldo
-KTNT * 5000 Dn -WCAU * 10000 C	Muscatine, Iowa Philadelphia, Pa.	Norman Baker Universal Broadcasting Co.
1180 kilocycles	254.1 meters [
CMGB 7.5 1185 KEX * 5000 2	Matanzas, Cuba Portland, Ore.	Jose Anorga Western Broadcasting Co.
-KOB * 20000 2	State College, N. M.	College of Agriculture & Mech. Arts Dr. George W. Young
-WGBS t 500	New York City	General Broadcasting System, Inc. Wm. Hood Dunwoody Industrial Inst.
WHDI * 500 1 Dn	Minneapolis, Minn.	Wm. Hood Dunwoody Industrial Inst.
1190 kilocycles	252.0 meters	t
- WOA1 * 50000 N	San Antonio, Texas	Southern Equipment Co.
	249.9 meters	
- CFCH 50	North Bay, Ont.	Northern Supplies, Ltd.
KBTM 100 D	Santiago de Cuba Paragould, Ark.	Melchor Aguero W. J. Beard's Temple of Music
KBTM - 100 D KFJB † 100 + KFWF - 100 5+	Marshalltown, Iowa St. Louis, Mo.	Marshall Electric Co., Inc. St. Louis Truth Center, Inc.
KGCU 100	St. Louis, Mo. Mandan, N. D.	Mandan Radio Association
TODAL STOCK	Fergus Falls, Minn. Huron, S. D.	Jaren Drug Co. Voice of South Dakota
KGEK † 50 9 KGEW † 100 9	Yuma, Colo. Fort Morgan, Colo.	Beehler Elec. Equipment Co.
KGFJ 100	Los Angeles, Cal.	City of Fort Morgan Ben S. McGlashan
KGY † 10 +	Little Rock, Ark. Lacey, Wash.	Berean Bible Class St. Martin's College
	Monroe, La. Santa Maria, Cal.	G. C. Liner
KVOS * 100	Bellingham, Wash.	Santa Maria Radio KVOS, Inc.
KWG * 100 WABI † 100 ₩ABZ * 100 1	Stockton, Cal. Bangor, Maine	Portable Wireless Tel. Co., Inc. Pine Tree Broadcasting Corp.
- TUDDE + 100	New Orleans, La. Ponca City, Okla	Samuel D. Reeks C. L. Carrell
WCAT † 100	Rapid City, S. D.	State School of Mines
- WCAX * 100 2 - WCLO † 100	Burlington, Vt. Janesville, Wis. Harrisburg, Pa.	University of Vermont WCLO Radio Corp.
-WCOD † 100 3	Harrisburg, Pa.	Keystone Broadcasting Corp.
	Worcester, Mass. Knoxville, Tenn.	Alfred Frank Kleindienst First Baptist Church
WFBC 50 WFBE 100 + WHBC † 10 4S	Cincinnati, Ohio Canton, Ohio	WFBE, Inc. St. John's Catholic Church
	Green Bay, Wis.	St. John's Catholic Church St. Norbert's College
-WIL • 100 5+	Utica, N. Y. St. Louis, Mo.	WIBX, Inc. Missouri Broadcasting Corp.
-WJBC * 100 6 WJBL † 100 6	La Salle, Ill. Decatur, Ill.	Kaskaskia Broadcasting Co.
WJBW † 100 1	New Orleans, La.	Commodore Broadcasting, Inc. Charles C. Carlson, Jr.
-WKJC * 100 3 WLAP † 100 +C	Lancaster, Pa. Louisville, Ky.	Kirk, Johnson & Co. American Broadcasting Corp. of Ky.
WLBG * 100 + WNBO * 100 4	Petersburg, Va. Washington, Pa.	Robert Allen Gamble John Brownlee Spriggs
WNBW † 10	Carbondale, Pa.	Home Cut Glass & China Co.
-WORC 100 2 100 7CX	Springfield, Vt. Worcester, Mass.	First Congregational Church Alfred Frank Kleindienst
- WRAF * 100 8Y	La Porte, Ind. Columbus, Ga.	South Bend Tribune David Parmer
-WWAE * 100 8	Hammond, Ind.	Hammond-Calumet Broad. Corp.
XEA 101 -10-BP * 25	Guadalajara, Mex. Wingham, Ont.	Alberto Palos Sauza Radio & Electric Shop
1210 kilocycles	247.8 meters	
CFCO - 100 CFNB * 500	Chatham, Ont. Fredericton, N. B.	Western Ontario "Better Radio" Club James S. Neill & Sons, Ltd.
CJOR * 500	Sea Island, B. C.	G. C. Chandler
СКМС 15	Cobalt, Ont.	R. L. MacAdam
	[43]	

KCYS. 1210 MTRS. 247.8

DIAL

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CUT OUT ON DOTTED LINES

		113	DEA	DI FREQUENCIES A	ND DIAL NUMBERS	
- CKPC KDFN	+	25 100	+	Preston, Ont. Casper, Wyo.	Metal Shingle & Siding Co.	
KDLR		100		Devils Lake, N. D.	Donald Lewis Hathaway KDLR, Inc.	
- KFOR	*	100	+ 6	Lincoln, Nebr.	Howard A. Shuman	
- KFVS	. *	100	6	Cape Girardeau. Mo.	Hirsch Battery & Radio Co.	
KFXM KGCR		100 100	9	San Bernardino, Cal.	J. C. & E. W. Lee	
KĞMF		100		Watertown, S. D. Elk City, Okla.	Greater Kampecka Radio Corp.	
- KGNO) 🐐	100		Dodge City, Kans.	Bryant Radio & Electric Co. Dodge City Broadcasting Co.	
KMJ	*	100	ā	Fresno, Cal.	James McClatchy Co.	
KPPC KWEA	\$	50 100	9	Pasadena, Cal.	Pasadena Presbyterian Church	
- WALR		100		Shreveport, La. Zanesville, Ohio	Hello World Broadcasting Corp.	
< WBAX		100	ī	Wilkes-Barre, Pa.	Roy. W. Waller John H. Stenger, Jr.	
WBBL	+	100	7S	Richmond, Va.	Grace Covenant Pres. Church	
- WCBS	*	100	2	Springfield, Ill.	H. L. Dewing & Chas. Messter	
- WCOH - WCRW		100 100	3 4	Yonkers, N. Y.	Westchester Broadcasting Corp.	
WDWF		100	5	Chicago, Ill. Providence, R. I.	Clinton R. White Dutee W. Flint	
S WEBO		ĨŎŎ	ĕ	Harrisburg, Ill.	First Trust & Savings Bank	
WEDČ		100	4	Chicago, Ill.	Emil Denemark, Inc.	
WGBB		100	3	Freeport, N. Y.	Harry H. Carman	
-∕WGCM ✓WHBF		100 100		Gulfport, Miss	Great Southern Land Co., Inc.	
WHBU		100		Rock Island, Ill. Anderson, Ind.	Beardsley Specialty Co. Citizens Bank	
-WIBU	「 † ■	100		Poynette, Wis.	Wm. C. Forrest	
~WJBI		100	3	Red Bank, N. J.	Monmouth Broadcasting Co.	
-WJBU -WJBY	*	100	1	Lewisburg, Pa.	Bucknell University	
- WJW	*	50 100		Gadsden, Ala. Mansfield, Ohio	Gadeden Broadcasting Co., Inc.	•
- WLCI	*	50		Ithaca, N. Y.	Mansfield Broadcasting Assn. Lutheran Assn. of Ithaca	
- WLSI	*	100	5	Providence, R. I.	The Lincoln Studios, Inc.	
WMBC		100	7	Richmond, Va.	Havens & Martin, Inc.	
- WMRJ - WOCL	*	100	3	Jamaica, N. Y.	Peter J. Prinz	
WOMI	•	50 100		Jamestown, N. Y.	A. E. Newton	
- WPAW		100	5	Manitowoc, Wis. Pawtucket, R. I.	Francis M. Kadow Shartenburg & Robinson Co.	
WODX	*	100		Thomasville, Ga.	Stevens Luke	
WRBQ		100	+ 4	Greenville, Miss.	I. Pat. Scully	
- WSBC	*	100	4	Chicago, Ill.	World Battery Co., Inc.	
- WSEN WSIX	‡	100 100		Columbus, Ohio	Columbus Broadcasting Co.	
-wsoc	+	100		Springfield, Tenn. Gastonia, N. C.	638 Tire & Vulcanizing Co. WSOC, Inc.	
- WTAX	ŧ	100	2	Springfield, Ill.	WTAX, Inc.	
XEX		500		Mexico City	Excelsior, Cia Editorial S. A.	
1220	12:11	locyc		245.8 meters		٦
	КП			245.0 meters		
CMCA		150	1225	Havana, Cuba	M. Cruz	
CMCD CMCN		250 250	1225	Havana, Cuba	Angel Bertamaty	
KFKU	Ŧ	500	1225 1	Havana, Cuba Lawrence, Kans.	Antonio Ginard University of Kansas	-
- KWSC	*	1000	÷	Pullman, Wash.	State College of Washington	
WCAD	*	500	D	Canton, N. Y.	St. Lawrence University	
- WCAE	*	1000	N	Pittsburgh, Pa.	Gimbel Bros.	
- WDAE - WREN	÷	1000 1000	C 1N	Tampa, Fla. Lawrence, Kans.	Tampa Publishing Co.	
				-	Jenny Wren Co.	_
	kil	ocycl	les	243.8 meters [1
KFQD ∽KGGM	1 -	100		Anchorage, Alaska	Anchorage Radio Club	
	‡	250 1000	+	Albuquerque, N. Mex. San Francisco, Cal.	New Mexico Broadcasting Co.	
S - WBIS		1000	2	Boston, Mass.	Pacific Broadcasting Corp. Shepard Broadcasting Service, Inc.	
🚽 🖌 🖉 🖉	+	1000	ĪC	Indianapolis, Ind.	Indianapolis Power & Light Co.	
- WNAC	*	1000	2C	Boston, Mass.	Shepard Broadcasting Service, Inc.	-
- WPSC WSBT	*	500	D	State College, Pa.	Pennsylvania State College	
	-	500	1	South Bend, Ind.	South Bend Tribune	_
1240	kil	ocycl	les	241.8 meters		
CMAB		20	1249	Pinar del Rio, Cuba	Francisco Martinez	-
CMKE	Ŧ	250 1000	1249 1	Santiago de Cuba Ft. Worth, Texas	Edmundo Recamier S. A. T. Broadcast Co.	•
~ WACO	ł	1000	ic	Waco, Texas	Central Texas Broadcasting Co., Inc.	
- WXYZ	ł	1000	č	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.	
1250	kil	ocycl	es	239.9 meters [٦
	+	1000	2	Northfield, Minn.	Carleton College	1
KrMA						
- KFMX KFOX	4	1000		Long Beach, Cal.	Nichols & Warinner, Inc.	
	↓ †			Long Beach, Cal. Boise, Idaho	Nichols & Warinner, Inc. Boise Broadcasting Station	

- WAAM • 1000 1+X WCAL • 1000 2 - WDSU † 1000 C WGCP - 250 1 WLB † 1000 2 - WODA - 1000 1 - WRHM • 1000 2 XEFA - 250 1260 kilocycles - KOIL • 1000 C	Newark, N. J. Northfield, Minn. New Orleans, La. Newark, N. J. St. Paul, Minn. Paterson, N. J. Minneapolis, Minn. Mexico City 238.0 meters Council Bluffs, Iowa	WAAM, Inc. St. Olaf College Jos. H. Uhalt May Radio Broadcast Corp. University of Minnesota Richard E. O'Dea Minnesota Broadcasting Corp. Luis F. Murguia Mona Motor Oil Co.	
<pre>- KOIL * 1000 C - KRGV * 500 1 - KVOA † 500 D KWWG * 500 1 - WLBW * 500 C+ - WTOC * 500 C</pre>	Harlingen, Texas Tucson, Ariz. Brownsville, Texas Oil City, Pa. Savannah, Ga.	KRGV, Inc. Robert M. Riculfi Herald Pub. Co. Radio-Wire Program Corp. Savannah Broadcasting Co.	
1270 kilocycles	236.1 meters		
CMJB 20 1276 - KFUM 1000 - KGCA 50 2D - KGCA 1 50 2D - KOL 1000 3C - KTW	Ciego de Avila, Cuba Colorado Springs, Colo. Decorah, Iowa Seattle, Wash. Seattle, Wash. Decorah, Iowa Grand Rapids, Mich. Ithaca, N. Y. Baltimore, Md. Jackson, Miss. Grand Rapids, Mich.	Eduardo V. Figueroa Reynolds Radio Co., Inc. Charles W. Greenley Seattle Rroadcasting Co., Inc. First Presbyterian Church Luther College WASH Broadcasting Corp. Cornell University Baltimore Radio Show, Inc. Lamar Life Insurance Co. Kunsky-Trendle Broadcasting Corp.	
1280 kilocycles	234.2 meters		
CMBJ 15 1285 CMBM 15 1285 CMCG 30 1285 CMCH 15 1285 CMCR 20 1285 CMCR 20 1285 KFBB 1000 + WCAM 500 1 WCAP 500 1 WDOD 1000 + C WIBA 500 WOAX 500 1 WRR £ 500 C	Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Trenton, N. J. Dallas, Texas	Jesus Lopez Jose Leiro Jose Justo Moran Hernani Torralbas Aurelio Hernandez Buttrey Broadcast, Inc. City of Camden Radio Industries Broadcast Co. WDOD Broadcasting Corp. Capital Times Co. WOAX, Inc. City of Dallas	
1290 kilocycles	232.4 meters		
	Salt Lake City Galveston, Texas Blytheville, Ark. San Antonio, Texas Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y.	Intermountain Broadcasting Corp. Will H. Ford C. L. Lintzenich Lone Star Broadcast Co. Head of Lake Broadcasting Co. Pittsburgh Radio Supply House Smith & Mace	ксуз. 1310 мtrs. 228.9
1300 kilocycles	230.6 meters		DIAL
KFAC 1000 4 KFH 1000 2C KFJR 500 3 KGEF 1000 4 KTBR 500 3 WBBR 1000 1 WEVD 500 1 WHAP 1000 1 WHAZ 500 1 WIOD 1000 N WOQ 1000 2 XETY 2000	Los Angeles, Cal. Wichita, Kansas Portland, Ore. Los Angeles, Cal. Portland, Ore. Brooklyn, N. Y. New York City New York City Troy, N. Y. Miami, Fla. Kansas City, Mo. Mexico City	Los Angeles Broadcasting Co. Radio Station KFH Co. Ashley C. Dixon & Son Trinity Methodist Church M. E. Brown People's Pulpit Association Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc. Rensselaer Polytechnic Institute Isle of Dreams Broadcasting Corp. Unity School of Christianity Juan Gutierrez, Jr.	CUT OUT ON
1310 kilocycles	228.9 meters		
KCRJ † 100 KFBK † 100 KFBQ † 100 7 KFIU * 10 7 KFIY 100 7 KFPL 100 7 KFPL 100 KFPM 15 KFUP 100 8 KFXJ † 100 8	Jerome, Ariz. Sacramento, Cal. Boone, Iowa Juneau, Alaska Ft. Dodge, Iowa Dublin, Texas Greenville, Texas Denver, Colo. Grand Junction, Colo.	Chas. C. Robinson Jas. McClatchy Co. Boone Biblical College Alaska Electric Light & Power Co. C. S. Tunwall C. C. Baxter The New Furniture Co. Fitzsimmons General Hospital Western Slope Broadcasting Co.	CUT OUT ON DOTTED LINES
The second second	[45]		

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	INDEX	BY FREQUENCIES A	ND DIAL NUMBERS
- KFXR †	100 +	Oklahoma City	Exchange Ave. Baptist Church
	100 100 +	St. Joseph, Mo.	KGBX Inc.
KGEZ †	100 + 100 + 100	Wolf Point, Mont. Kalispell, Mont.	First State Bank of Vida Treloar-Church Brdcstg. Co.
KGFW †	100	Ravenna, Neb.	Central Nebraska Broadcasting Corp
KIT † KMED †	50 100	Yakima, Wash. Medford, Ore.	Carl E. Haymond Mrs. W. J. Virgin
KRMD †	50 9	Shreveport, La.	Mirs. W. J. Virgin Robert M. Dean
S KTLC • KTSL	100	Houston, Tex.	Houston Broadcasting Co.
KTSM F	100 9 100 2	Shreveport, La. El Paso, Texas	G. A. Houseman
-KWCR †	100 7	Cedar Rapids, Iowa	W. S. Bledsoe & W. T. Blackwell Harry F. Paar
KXRO † WBEO	75 X 100 CP	Aberdeen, Wash.	KXRO, Inc.
-WBOW *	100 CP 100	Marquette, Mich. Terre Haute, Ind.	Charles B. McCleod Banks of Wabash, Inc.
WBRE WCLS *	100	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS * WDAH †	$ \begin{array}{ccc} 100 & 1 \\ 100 & 2 \end{array} $	Joliet, Ill. El Paso, Texas	WCLS, Inc.
-WEBR *	100 +	Buffalo, N. Y.	Bledsoe & Blackwell Howell Broadcasting Co., Inc.
WEXL †	50	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFDF +	100 3X 100	Altoona, Pa. Flint, Mich.	Wm. F. Gable Co.
WGAL •	100 5	Lancaster, Pa.	Frank D. Fallain WGAL, Inc.
≁WGH * ≁WHAT †	100 100 - 4	Newport News, Va.	Hampton Roads Broadcasting Corp.
-WJAC +	100 4 100 3	Philadelphia, Pa. Johnstown, Pa.	Independence Broadcasting Co. Johnstown Automobile Co.
WJAK *	50 6	Marion, Ind.	Marion Broadcasting Co.
WKAV * 5 - WKBB *	$100 \bar{1}^{}$	Laconia, N. H.	Laconia Radio Club
WADL -	100	Joliet, Ill. Birmingham, Ala.	Sanders Bros. Radio Station R. B. Broyles Furniture Co.
WKBS *	$ \begin{array}{ccc} 100 & \\ 50 & \overline{6} \end{array} $	Galesburg, Ill.	Permil N. Nelson
WMBO	100	Muncie, Ind. Auburn, N. Y.	Donald A. Burton
WNBH 🔹	100	New Bedford, Mass.	Radio Service Laboratories New Bedford Broadcasting Co.
WOBT †	100 + Y	Union City, Tenn.	Tittsworth's Radio & Music Shop
WRAW *	100 100 5X	Washington, D. C. Reading, Pa.	American Broadcasting Co.
WRBI	100	Tifton, Ga.	Reading Broadcasting Co. Oglethorpe University
-WROL † WSAJ *	100	Knoxville, Tenn.	Stewart Broadcasting Co.
~wsjs *	100	Grove City, Pa. Winston-Salem, N. C.	Grove City College Winston-Salem Journal Co.
-WTEL *	100 4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
1320 kil	ocycles	227.1 meters	
CMJC	15 1321	Camaguey, Cuba	Feliciano Isaac
CMKH KGHF †	250 1327 250 +	Santiago de Cuba Pueblo, Colo	Alberto Ravelo
-KGMB 🛉	500	Honolulu, Hawaii	C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd.
-KID † KTFI	250 1+	Idaho Falls, Idaho	KID Broadcasting Co.
- WADC +	250 1X 1000 C	Twin Falls, Idaho Akron, Ohio	Radio Broadcasting Corp. Allen T. Simmons
-WSMB *	500 N	New Orleans, La.	Saenger Theatre & Maison Blanche Co.
1330 kile	ocycles	225.4 meters	
🕶 KGB 🛛 \star	500	San Diego, Cal.	Don Lee, Inc.
∽KSCJ * ∽WDRC *	1000 1+C 500 C	Sioux City, Iowa	Perkins Bros. Co.
-WSAI *	500 N	Hartford, Conn. Cincinnati, Ohio	WDRC, Inc. Crosley Radio Corp., Lessee
WTAQ *	1000 1C	Eau Claire, Wis.	Gillette Rubber Co.
XEC	50 1333	Toluca, Mex.	Jesus R. Benavides
1340 kilo	ocycles	223.7 meters	
CMBA CMBF	50 1345	Havana, Cuba	Oscar Montenegro Jose G. Reigada
CMCU	$\begin{array}{ccc} 7.5 & 1345 \\ 50 & 1345 \end{array}$	Havana, Cuba Hayana, Cuba	
CMCY	15 1345	Havana, Cuba	Jorge Garcia Serra M. D. Autran
KFPW † ~ KFPY *	50 D	Fort Smith, Ark.	Southwestern Hotels Co.
WCOA *	1000 C 500	Spokane, Wash. Pensacola, Fla.	Symons Broadcasting Co.
- WSPD *	500 C+	Toledo, Ohio	City of Pensacola Toledo Broadcasting Co.
1350 kilo	ocycles	222.1 meters	
- KWK *	1000 N	St. Louis, Mo.	Greater St. Louis Broadcasting Corp.
→WAWZ *	250 1 250 1	Zarephath, N. J. New York City	Pillar of Fire
S-WCDA *	250 1	New York City	Standard Cahill Co., Inc. Italian Educ. Broadcasting Co., Inc.
5 WEHC *	100 +D	Emory, Va.	Emory & Henry College
-WMSG	250 1	New York City	Madison Sq. Garden Brdcstg. Corp.

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	1360	kil	ocve	les	220.4 meters	
	CMKF		30	1363	Holguin, Cuba	Manuel J. de Gongora
	KGER	-	1000 500		Long Beach, Cal. Butte, Mont.	C. Merwin Dobyns KGIR, Inc.
÷.	-WCSC	ţ	500	čx	Charleston, S. C.	lordan & Burk
	-WFBL -WGES		1000 500	1+	Syracuse, N. Y. Chicago, Ill.	Onondaga Radio Broadcasting Corp. Oak Leaves Broadcasting Station, Inc.
	-WJKS WQBC	+	1000 300	1+ CPD	Gary, Ind. Vicksburg, Miss.	Johnson-Kennedy Radio Corp. Delta Broadcasting Co., Inc.
	-		ocyc		218.7 meters	
	CMAC		30	1375	Pinar del Rio, Cuba	Oscar S. Mechoso
	CMGE ▼KCRC	ţ	30 100	$1375 \\ 2+$	Cardenas, Cuba Enid, Okla.	Genaro Sebater Champlin Refining Co.
	KFBL	+	50	3	Everett, Wash.	Leese Bros.
	KFJI KFJM	Ŧ	100 100		Astoria, Ore. Grand Forks, N. D.	KFJI Broadcasters, Inc. University of North Dakota
	KFJZ KFLX	*	100 100		Ft. Worth, Texas Galveston, Texas	Estate of H. C. Meachem George Roy Clough
	-KGAR	*	100	+	Tucson, Ariz.	Tucson Motor Service Co.
	KGDA KGFG	Ŧ	100	2	Mitchell, S. D. Oklahoma City	Mitchell Broadcasting Corp. Oklahoma Broadcasting Co., Inc.
	KGFL KGKL	Ì	50 100		Raton, N. M. San Angelo, Texas	W. E. Whitmore KGKL, Inc., Opr. by Ragsdale Auto
	KMAC	÷	100	5	San Antonio, Tex.	W. W. McAllister
	KONO	1	100	5	San Antonio, Texas Marshfield, Ore.	Mission Broadcasting Co. H. H. Hanseth, Inc.
	KRE KUJ	Ť	100 100	6	Berkeley, Ćal. Walla Walla, Wash.	First Congregational Church Paul R. Heitmeyer
	KVL		100	3	Seattle, Wash.	KVL, Inc.
3	- KWKC KZM	•	100 100	ē	Kansas City, Mo. Hayward, Cal.	Wilson Duncan Broadcasting Co. Leon P. Tenney
	WBGF WBTM	1	50 100	7	Glens Falls, N. Y. Danville, Va.	W. N. Parker and H. H. Metcalfe Clarke Electric Co.
	- WCBM	*	100	+z	Baltimore, Md.	Baltimore Broadcasting Corp.
	WELK	f	100	+	Philadelphia, Pa. Rome, Ga.	WELK Broadcasting Station, Inc. Dolies Goings
	WGL WHBD	*	100	Ċ	Fort Wayne, Ind. Mount Orab, Ohio	Fred C. Zieg F. P. Moler
	WHBQ	t	100		Memphis, Tenn.	Broadcasting Station WHBQ, Inc. Upper Michigan Broadcasting Co.
	WHDF WIBM	†	100 100	Ŧ	Calumet, Mich. Jackson, Mich.	WIBM, Inc.
	- WJBK - WLEY	*	50 100	1 + 7	Detroit, Mich. Lexington, Mass.	James F. Hopkins, Inc. Lexington Air Stations
	- WLVA - WMBR	ţ	100 100		Lynchburg, Va. Tampa, Fla.	Lynchburg Broadcasting Corp. F. J. Reynolds
	- WPOE	+	100		Patchogue, N. Y.	Nassau Broadcasting Corp.
	- WODM WRAK		100 100	D	St. Albans, Vt. Williamsport, Pa.	A. J. St. Antoine C. R. Cummins
	WRAM WRBJ	*	100 10		Wilmington, N. C. Hattiesburg, Miss.	Wilmington Radio Association Woodruff Furniture Co., Inc.
	WRDO	\$	100	CP	Augusta, Me.	Albert S. Woodson Racine Broadcasting Corp.
	- WR JN - WSVS	*	100 50		Racine, Wis. Buffalo, N. Y.	Seneca Vocational School
	1380	kil	ocyc	les	217.3 meters	
	-KOH KQV	1	500 500	C 2	Reno, Nevada Pittsburgh, Pa.	Jay Peters KQV Broadcasting Co.
	-KSO	÷	500	ĩ	Clarinda, Iowa	Berry Seed Co. WKBH, Inc.
	- WKBH WSMK		1000 200	2	La Crosse, Wis. Dayton, Ohio	Stanley M. Krohn, Jr.
	1390	kil	locyc	les	215.7 meters	
	KLRA	:	1000 500	1C	Little Rock, Ark. Phoenix, Ariz.	Arkansas Broadcasting Co. Nielson Radio & Sporting Goods Co.
	-KOY KUOA	t	1000 1000	i C	Fayetteville, Ark. Cleveland, Ohio	University of Arkansas Radio Air Service Corp.
1	-WHK	1			•	
1	1400 СМВІ	KI	locyc	1405	214.2 meters Havana, Cuba	Heriberto Meireles
-	CMBK		15	1405	Havana, Cuba	Jose L. Ferriol
1	CMBN CMBO		30 50	1405 1405	Havana, Cuba Havana, Cuba	Armado Romeu Emilio Salas
	CMBQ CMBX CMBY		30 100	1405 1405	Havana, Cuba Havana, Cuba	Bertin Fernandez Lino E. Cosculluela
1	≭ KLO	*	500		Ogden, Utah	Peery Building Co.
	-WBAA	S	250 500	1+ 1+	Chickasha, Okla. Lafayette, Ind.	College for Women Purdue University

kcys. 1400 mtrs. 214.2

214.2 DIAL

> CUT OUT ON DOTTED LINES

				ND DIAL NOWIDERS
🗲 WBBC	• 500	2	Brooklyn, N. Y	Brooklyn Broodeesting Com
-WCGU	* 500	2 2 1	Brooklyn, N. Y. Brooklyn, N. Y.	Brooklyn Broadcasting Corp.
WCMA	† 500	ī	Culver, Ind.	U. S. Broadcasting Corp.
- WFOX	E00	2	Brooklyn, N. Y.	General Broadcasting Corp.
- WKBF	† 500 † 500	ī	Indianapolis Ind	Paramount Broadcasting Co.
WKBF	÷ 500	2 1 2	Indianapolis, Ind. Brooklyn, N. Y.	Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc.
XEP	2500		Laredo, Mex.	Le Ver Leting
			Eureas, mex.	La Voz Latino
1/10 1	kilocyc	100	212 6	
14101	KHOUYU	les	212.6 meters	
 KFLV 	† 500	4	Rockford, 111.	Destrond Busichers Tur
KGRS	† 500 * 1000	4 1	Amarillo, Texas	Rockford Broadcasters, Inc.
WAAB	* 500	2C	Boston, Mass.	Gish Radio Service
 WBCM 	* 500	ĉ	Bay City Mich	Bay State Broadcasting Corp.
🛩 WDAG	• 1000	ī	Bay City, Mich. Amarillo, Texas	National Dadia & Davidson
- WHBL	* 500	4	Sheboygan, Wis.	James E. Davidson National Radio & Broadcasting Corp. Press Pub. Co
~ WHIS	1 250		Bluefield, W. Va.	Press Pub. Co. Daily Telegraph
- WODX	† 250 • 500	3	Mobile, Ala.	Mobile Proodesting Corr
- WODX - WRBX - WSFA	* 250		Roanoke, Va.	Mobile Broadcasting Corp. Richmond Development Corp.
– WSFA	† 500	3	Montgomery, Ala.	Montgomery Broadcasting Co. Inc.
ς - ₩SSH	† 500 † 500	2	Boston, Mass.	Montgomery Broadcasting Co., Inc. Tremont Temple Baptist Church
-				Tremone Temple Daptist Church
14201	kilocyc	les	211.1 meters	
		100		
KBPS	100	4	Portland, Ore.	Benson Polytechnic Institute
KFIZ	¥ 100		Fond du Lac. Wis.	Reporter Printing Co.
 KFQU KFQW 	100	5	Holy City, Cal.	W. E. Riker
KFQW	100		Seattle, Wash.	KFOW, Inc.
KFXD	• 100		Holy City, Cal. Seattle, Wash. Nampa, Idaho	Service Radio Co.
KFXY	100		r lagstan, Ariz.	Mary M. Costigan
 KFYO 	† 100	-	Abilene, Texas	Reporter Printing Co. W. E. Riker KFQW, Inc. Service Radio Co. Mary M. Costigan T. E. Kirksey KGEF Broadcasting Co.
KGFF	† 100 † 100 † 100 † 100	5	Shawnee, Okla.	Norr Droadcasting Co.
KGGC	100		San Francisco, Cal.	Golden Gate Broadcasting Co.
KGIW	† 100		Trinidad, Colo.	Leonard E. Wilson
			Las Vegas, Nevada	Las Vegas, Nevada, Radio Corp. C. E. Twiss and F. H. McCann
KGKX	† 100 † 100 • 100	D	Sand Point, Idaho	C. E. Twiss and F. H. McCann
KGVO	100		Missoula, Mont.	Mosby's Incorporate Red Oak Radio Corp.
			Red Oak, Iowa	Red Oak Radio Corp.
KLPM KORE	† 100 • 100		Minot, North Dakota	John B. Cooley
			Eugene, Ore.	Eugene Broadcasting Station
- KXL	† 100 • 100	4	San Antonio, Texas	Alamo Broadcasting Co.
V V V7	100		Portland, Ore.	KXL Broadcasters, Inc.
- WEDH	• 100		Houston, Texas Erie, Pa.	Harris County Broadcast Co.
WEHS	100	2	Cicero III	Erie Dispatch-Herald WEHS, Inc.
WEII	- 100	~	Ciccio, III.	
WELL	T 50	x	Battle Creek Mich	Enquirer News Co
WELL - WFDW	† 50 * 100	х	Cicero, Ill. Battle Creek, Mich. Talladega, Ala	Enquirer-News Co.
- WFDW WHDL	* 100		Talladega, Ala.	Enquirer-News Co. Raymond G. Hammett
- WFDW WHDL - WHFC	* 100 100		Talladega, Ala. Tupper Lake, N. Y.	Enquirer-News Co. Raymond G. Hammett
- WFDW WHDL - WHFC WIAS	 100 100 100 100 	D 2	Talladega, Ala. Tupper Lake, N. Y. Cicero, 111.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc.
- WFDW WHDL - WHFC WIAS - WIBR	* 100 100 † 100 * 50		Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc.
- WFDW WHDL - WHFC WIAS - WIBR - WILM	* 100 100 † 100 * 50 * 100	D 2	Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc.
- WFDW WHDL - WHFC WIAS - WIBR - WILM WJBO	 100 100 100 100 50 100 100 	D 2	Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc.
- WFDW WHDL - WHFC WIAS - WIBR - WIBR WJBO - WKBI	 100 100 100 100 50 100 100 100 	D 2	Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBL. Inc.
- WFDW WHDL - WHFC WIAS - WIBR - WIBR WJBO - WKBI	 100 100 100 50 50 100 100 100 100 100 	D 2 2	Tupper Lake, N. Y. Cicero, III. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, III. Kansas City, Kas.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBL. Inc.
- WFDW WHDL - WHFC WIAS - WIBR - WILM WJBO - WKBI - WLBF WLBF	 100 100 100 50 100 100 100 100 100 100 100 	D 2 2	Tupper Lake, N. Y. Cicero, III. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, III. Kansas City, Kas. Detroit, Mich.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBL. Inc.
 WFDW WHDL WHFC WIAS WIBR WILM WJBO WKBI WKBF WMBC 	 100 100 100 50 100 100 100 100 100 100 100 100 	D 2 2	Tailadega, Ala. Tupper Lake, N. Y. Cicero, III. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, III. Kansas City, Kas. Detroit, Mich. Joplin, Mo.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber
- WFDW WHDL - WHFC WIAS - WIBR - WIBR WIBN - WKBI - WKBI - WKBF WMBC WMBH WPAD	 100 100 100 50 100 	D 2 2	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co.
 WFDW WHDL WHFC WIAS WIBR WIBM WJBO WKBI WKBI WKBF WMBC WMBH WPAD WSPA 	 100 100 100 50 100 	D 2 2	Tailadega, Ala. Tupper Lake, N. Y. Cicero, III. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, III. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina
WFDW WHDL WHFC WIAS WIBR WIBR WIBM WKBI WMBC WMBH WPAD	 100 100 100 50 100 	D 2	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co.
- WFDW WHDL - WHFC WIAS - WIBR WILM WJBO - WKBI - WKBI - WKBI - WKBI - WKBF WMBC WMBH WPAD 5 - WSPA - WTBO	 100 100 100 50 100 	D 2 2 ++ ++	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina
- WFDW WHDL - WHFC WIAS - WIBR WILM WJBO - WKBI - WKBI - WKBI - WKBI - WKBF WMBC WMBH WPAD 5 - WSPA - WTBO	 100 100 100 50 100 	D 2 2 ++ ++	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina
- WFDW WHDL - WHFC WIAS - WIBR - WIBM - WKBI - WKBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430	<pre>* 100 - 100 * 100 * 50 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100</pre>	D 2 2 2 2 2 2 2 2 2 2 	Tailadega, Aia. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp.
- WFDW WHDL - WHFC WIAS - WIBR WILM WJBO - WKBI - WLBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430 1 - KECA	* 100 - 100 * 100 * 50 * 100 * 100	D 2 2 ++ ++ ++ ++ ++ ++ 1es	Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc.
- WFDW WHDL - WHFC WIAS - WIBR WILM WJBO - WKBI - WKBI - WKBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430 1 - KECA KGNF	* 100 - 100 * 100 * 50 * 100 * 100	D 2 2 2 ++ ++ ++ 1es D	Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal. North Platte, Neb.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc. Great Plains Broadcasting Co.
- WFDW WHDL - WHFC WIAS - WIBR - WIBM WJBO - WKBI - WLBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430 1 - KECA KGNF WBAK	<pre>* 100 100 * 50 * 100 * 100</pre>	D 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal. North Platte, Neb. Harrisburg, Pa.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc. Great Plains Broadcasting Co. Penna. State Police
- WFDW WHDL - WHFC WIAS - WIBR - WIBM WJBO - WKBI - WLBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430 1 - KECA KGNF WBAK - WCAH	$\begin{array}{c} \bullet & 100\\ \hline - & 100\\ \dagger & 100\\ \bullet & 50\\ \bullet & 100\\ \bullet & 100\\ \bullet & 100\\ \dagger & 100\\ \bullet & 500\\ \end{array}$	D 2 	Talladega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal. North Platte, Neb. Harrisburg, Pa. Columbus, Ohio	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc. Great Plains Broadcasting Co. Penna. State Police Commercial Radio Service Co.
- WFDW WHDL - WHFC WIAS - WIBR WIBM WJBO - WKBI - WLBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430 1 - KECA KGNF WBAK - WCAH WGBC	<pre>* 100 - 100 * 100 * 50 * 100 * 500 * 500</pre>	$\frac{1}{2}$ $\frac{1}$	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal. North Platte, Neb. Harrisburg, Pa. Columbus, Ohio Memphis, Tenn.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc. Great Plains Broadcasting Co. Penna. State Police Commercial Radio Service Co. Memphis Broadcasting Co.
WFDW WHDL WHFC WIAS WIBR WIBM WJBO WKBI WMBC WMBH WPAD 5-WSPA WTBO 1430 1 KGNF WBAK WCAH WGBC WHP	<pre>* 100 100 * 50 * 100 * 500 * 500 * 500</pre>	$\lim_{\substack{D \\ D \\ 2 \\ \dots \\ 2 \\ \dots \\ 1 \\ + + \\ + + \\ + + \\ \text{les} \\ \sum_{D \\ 1 \\ C \\ 2 \\ 1 \\ C \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ +$	Tupper Lake, N. Y. Cicero, III. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, III. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal. North Platte, Neb. Harrisburg, Pa. Columbus, Ohio Memphis, Tenn. Harrisburg, Pa.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc. Great Plains Broadcasting Co. Penna. State Police Commercial Radio Service Co. Memphis Broadcasting Co. WHP, Inc.
- WFDW WHDL - WHFC WIAS - WIBR WIBM WJBO - WKBI - WLBF WMBC WMBH WPAD 5 - WSPA - WTBO 1430 1 - KECA KGNF WBAK - WCAH WGBC - WHP WNBR	<pre>* 100 - 100 * 100 * 50 * 100 * 500 * 500 *</pre>	$\frac{1}{2}$ $\frac{1}$	Tailadega, Ala. Tupper Lake, N. Y. Cicero, Ill. Ottumwa, Iowa Steubenville, Ohio Wilmington, Del. New Orleans, La. Chicago, Ill. Kansas City, Kas. Detroit, Mich. Joplin, Mo. Paducah, Ky. Spartanburg, S. C. Cumberland, Md. 209.7 meters Los Angeles, Cal. North Platte, Neb. Harrisburg, Pa. Columbus, Ohio Memphis, Tenn.	Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. WHFC, Inc. Iowa Broadcasting Co. George W. Robinson Delaware Broadcasting Co., Inc. Valdemar Jensen WKBI, Inc. WLBF Broadcasting Co. Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp. Earle C. Anthony, Inc. Great Plains Broadcasting Co. Penna. State Police Commercial Radio Service Co. Memphis Broadcasting Co.
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INDEX	BY FREQUENCIES AI	ND DIAL NUMBERS	
1450 kilocycles	206.8 meters		
CMKA 20 WBMS 1000 WBMS 250 1 WGAR 500 N WHOM 500 1 WKBO 250 1 WKBO 250 1 WSAR 250 1 WSAR 250 1 WSTFI 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 CMCT 5 KDB * 100 KGFK * 50 KGFK * 100 + KGKZ * 50 KGKY * 100 KGKY * 100 KGKY * 100 KKGK * 100 KKGK * 100 KKQO * 100 WKBV * 100 WKBV * 100 WLBX * 100 + WMBQ * 100 1 WMBQ * 100 WMBQ * 100 WMBQ * 100 WMBQ * 100<	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. Bristol, Tenn. Phildelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y. Pittsburgh, Pa.	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. Musicove, Inc. Seward & Weiss Music Co. Long Island Broadcasting Corp. William S. Walker	ксуз. 1500 мtrs. 199.9
WWSW 100 CP	rittsburgh, ra.	WILLIAM S. WAIKET	DIAL

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ALABAMA	Watts		Kcys.	San Jose J-1	500	KQW	1010
Birmingham O-21	5000	WAPI	1140	Santa Ana M-3	100	KREG	1500
0	500	WBRC	930	Santa Barbara M-2 Santa Maria L-2	100 100	KDB KSMR	1500 - 1200
Gadsden O-21	100 50	WKBC WJBY	1310 1210	Stockton J-2	250	KGDM	1100
Mobile Q-20	500	WODX	1410		100	KWG	1200
Montgomery P-21	500	WSFA	1410	COLORADO			
Talladega O-21	100	WFDW	1420	Colorado Springs K-1	1 1000		1270
				Denver K-11	500	KFUM KFEL	920
ALASKA					100	KFUP	1310
Anchorage Juneau	100 10	KFQD KFIU	1230 1310		500 1000	KFXF KLZ	920 560
Ketchikan		KGBU	900		12500	KOA	830
				E- at Manual 7, 11	500	KPOF	880
ARIZONA				Fort Morgan J-11 Grand Junction K-9	100 100	KGEW KFXJ	1200 1310
Flagstaff M-7	100	KFXY	1420	Greeley J-11 Pueblo L-11	500		880
Jerome M-6	100	KCRJ	1310		250	KGHF	1320
Phoenix N-6	500	KOY	1390	Trinidad L-11 Yuma J-12	100 50	KGIW KGEK	1420 1200
Prescott M-6	500 100	KTAR KPJM	620 1500	14	50	ROER	1200
Tucson O-7	100	KGAR	1370	CONNECTICUT	•		
	500	KVOA	1260			WICC	
				Bridgeport H-27 Hartford H-27	250 500	WICC WDRC	600 1330
ARKANSAS					50000		660-1060
Blytheville M-19	50	KLCN	1290	Storrs H-28	250	WCAC	600
Fayetteville M-16 Fort Smith N-16	1000 50	KUOA KFPW	1390 1340				
Hot Springs N-17	10000	KTHS	1040	DELAWARE			
Little Rock N-17	100	KGHI	1200	Wilmington J-26	250	WDEL	1120
	250 1000	KGJF KLRA	890		100	WILM	1420
Paragould M-18	1000	KBTM	1390 1200	DIOTRICT OF			
				DISTRICT OF		MBIA	
				Washington J-26	250	WMAL	630
CALIFORNIA					500 100	WRC WOL	950 1310
Berkeley J-2 Burbank M-3	100 500	KRE KELW	1370 780	FLORIDA	100	HOL	1010
Culver City M-3	250	KFVD	1000	_	1000	WELA	(20
El Centro N-4	100	KXO	1500	Clearwater R-24 Gainesville O-24	1000 5000	WFLA WRUF	620 830
Fresno K-2 Hayward J-1	100 100	KMJ KZM	1210 1370	Jacksonville Q-24	1000	ŴĴĂX	900
Hollywood M-3	1000	KFWB	950	Miami T-25	1000	WIOD	1300
	5000	KNX	1050	Orlando R-24	1000 500	WQAM WDBO	560 1120
Holy City K-1 Inglewood M-3	100 500	KFQU KMČS	1420 1120	Pensacola Q-21	500	WCOA	1340
Long Beach M-3	1000	KFOX	1250	St. Petersburg S-24	1000	WSUN	620
-	1000	KGER	1360	Tampa R-24	1000 100	WDAE WMBR	1220 1370
Los Angeles M-3	1000	KECA	1430 1300	or or or other	100		10/0
	$1000 \\ 5000$	KFAC KFI	640	GEORGIA			
	500	KFSG	1120	Atlanta O-22	250	WGST	890
	1000 100	KGEF KGFJ	1300 1200	Augusta O-23	5000 100	WSB WRDW	740 1500
	1000	KHJ	900	Columbus O-22	5 0	WRBL	1200
	500	KMPC	710	Macon O-23	250	WMAZ	890
	500	KMTR	570	Rome N-22 Savannah O-24	100 500	WFDV WTOC	1370
Oakland J-1	500 250	KTM KLS	780 1440	Thomasville Q-22	100	WQDX	1260 1210
	500	KLX	880	Tifton P-23	100	WRBI	1310
Pasadena M-3	500	KROW	930	Toccoa N-23	500	WTFI	1450
Sacramento J-2	50 100	KPPC KFBK	1210 1310	HAWAII			
San Bernardino M-3	100	KFXM	1210				
San Diego N-3	500	KFSD	600	Honolulu	500	KGMB	1320
San Francisco J-1	500 1000	KGB KFRC	1330 610		1000	KGU	940
San Francisco J-1	500	KFWI	930	IDAHO			
		KGGC	1420	Boise G-5	1000	KIDO	1250
	100		790	Idaho Falls G-7	250	KID	1320
	7500	KGO					
	7500 100	KJBS	1070	Nampa G-5	50	KFXD	1420
	7500	KGO KJBS KPO KTAB					

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ILLINOIS Watts Kcys. Ottumwa J-17 Red Oak J-16 100 KIXF Carthage J-18 50 WCAZ 1020 Sone and J-16 500 KIAR Chicago 1-20 10000 KYW 1020 Sone and J-16 500 KMA Sone WCH 1200 Sone WCH 1000 WSCJ Sone KGN Sone KGN Sone WCH 1200 WCRE 1210 Dodge City L-13 100 WGN Sone WCH 1210 Sone WCH 100 WED 100 WLS Sone WCH 1200 WCR 100 WED 100 WED Sone WCH 1400 WCR 100 WED 100 WED Sone WLS 500 WHE 1400 KENTUCKY 5000 WCR Sone WHE 1400 WHE 1400 WLA 100 WLA Getart K-19 100 WHE 1400 WLA 100 WLA Getart K-19 100 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
Carthage J-18 50 WCAZ 1070 Rec Oad J-19 100 1000 KFN F Chicago I-20 10000 KYW 1020 Sioux City I-15 1000 KKAS Jabou WBM 770 Sioux City I-13 1000 KKAS Jabou WCH 1400 WCH 100 WCB 100 WCB Jabou WCR 100 WCC 1210 Dodge City I-13 100 KGN G Jabou WCR 100 WCD 1210 Kanssa City K-16 1000 WCB Jabou WCR 100 WCB 100	ULINOIS	Watts		Keys				1420
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500 WAAF 920 But Chip 1/3 100 WATT 1500 WCRL 970 500 Watterioo 1-17 500 WATT 100 WCRW 1210 Dodge City L-13 100 WCRD 100 WCRW 1210 Dodge City L-13 100 WCRD 100 WEB 1300 Waterioo 217 500 WCRD 100 WEB 1300 KANSAS 1000 WEB 25000 WGB 500 Winfit draman 1000 WEB 100 WEB 1420 Marinatera K-15 5000 WEB 100 WEB 1420 Wichita L-13 1000 WEB 100 WEB 1400 Wichita L-13 1000 WEB 100 WEB 1400 WeB 1400 WeB 100 100 WEB 1400 WeB 1100 WEA 100 100 WEB 1400 WEB 1400	Chicago I-20	10000	KFKX	1020	Shenandoan J-10			930
25000 WBBM 770 Waterio FPJ 500 WRT 1500 WCR1 1490 KANSAS Dodge City L-13 100 KGNO 100 WCR 170 Boolge City L-13 100 KGNO 5000 WGR 170 Boolge City L-13 100 KGNO 100 WCR 170 Boolge City L-13 100 KGNO 1000 WIB 170 Boolge City L-13 100 KGNO 1000 WIB 170 Wichta K-14 100 KENTUCKY 5000 WIS 100 WKB 1200 WCKY 5000 WES 110 WKB 1200 WCKY Decatur K-19 100 WKB 1310 LOUISIANA 100 WAB Jairet L-19 100 WKB 1300 Norre P-18 50 KMLB Morree L-20 100 WBS 100 WBS 100 WBS Joint K-20 100 WK								1330
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Ames I-17 5000 WOI 640 Needham G-28 500 WBSO Boone I-17 100 KFGQ 1310 New Bedford H-28 100 WNBH Cedar Rapids I-18 100 KWCR 1310 Springfield H-27 15000 WBSO Clarinda J-16 500 KSO 1380 Springfield H-27 15000 WBZ-A Council Bluffs J-16 1000 KOIL 1260 100 Worcester G-28 100 WBCC Davenport I-18 500 WOC 1000 KUCL 1270 100 WORC Des Moines I-17 5000 WHO 1000 Net D 50 WEL	IOWA				Fall River H-28			1450 1370
Boone I-17 100 KFGQ 1310 New Bedford H-28 100 WNBH Cedar Rapids I-18 100 KWCR 1310 Springfield H-27 15000 WBZ-A Clarinda J-16 500 KSO 1380 Springfield H-27 15000 WBZ-A Council Bluffs J-16 1000 KOIL 1260 100 Worcester G-28 100 WEPS Davenport I-18 500 WOC 1000 250 WTAG Decorah H-18 50 KGCA 1270 MICHIGAN 250 WFL Des Moines I-17 5000 WHO 1000 New Decide L MI 50 WEL				640	Needham G-28	500	WBSO	920
Clarinda J-16 500 KSO 1380 Worcester G-28 100 WEPS Council Bluffs J-16 1000 KOIL 1260 100 Worcester G-28 100 WEPS Davenport I-18 500 WOC 1000 250 WTAG Decorah H-18 50 KGCA 1270 MICHIGAN Des Moines I-17 5000 WHO 1000 WEU					New Bedford H-28			
Council Bluffs J-16 1000 KOIL 1260 100 100 WORC Davenport I-18 5000 WOC 1000 250 WTAG Decorah H-18 50 KGCA 1270 MICHIGAN Des Moines I-17 5000 WHO 1000 End 50 WEL								1200
Decorah H-18 50 KGCA 1270 100 KWLC 1270 Des Moines I-17 5000 WHO 1000 MICHIGAN	Council Bluffs J-16		KOIL			100	WORC	120
Des Moines I-17 5000 WHO 1000 MICHIGAN						250	WTAG	580
Des Moines 1-17 5000 WHO 1000 D 1 1 21 50 WELL		100	KWLC	1270	MICHIGAN			
East Dodge Lib 100 KEY KIII BATTIPUTPER I=21 50 WEEE			WHO KFJY	1000 1310	Battle Creek I-21	50	WELL	1420
Iowa City I-18 500 WSUI 880 Bay City H-22 500 WBCM			WŠŬI		Bay City H-22	500	WBCM	I 1410
Marshalltown I-17 100 KFJB 1200 Berrien Springs 1-20 1000 WKZO	Marshalltown I-17	100	KFJB	1200	Berrien Springs 1-20			
Muscatine J-18 5000 KTNT 1170 Calumet E-19 100 WHDF	Muscatine J-18	5000	KINI	1170	Calumet E-19	100	windt.	10/1

Detroit H-22	50 WJBK	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				
Flint H-22	100 WFDF	1040 1310	NEW HAMPSH	IRE		
Grand Rapids H-21	500 WASH	1270	Laconia G-28	100	WKAV	1310
Jackson I-21	500 WOOD 100 WIBM	1270 1370	NEW FEDODU			
Lapeer H-22	100 WMPC	1500	NEW JERSEY			
Ludington H-20 Marquette F-19	50 WKBZ	1500	Asbury Park I-27 Atlantic City J-27	500 5000	WCAP WPG	1280 1100
Royal Oak H-22	100 WBEO 50 WEXL	1310 1310	Camden I-26	500	WCAM	1280
		1010	Hackensack I-27	250	WBMS	1450
MINNESOTA			Jersey City I-27	300 500	WAAT WHOM	940 1450
Fergus Falls F-15	100 KGDE	1200		250	WKBO	1450
Minneapolis G-17	7500 WCCO 1000 WDGY	810 1180	Newark I-27	1000 250	WAAM WGCP	1250 1250
	500 WHDI	1180		250	WNJ	1450
Moorhead F-15	1000 WRHM	1250	Paterson I-27	5000	WOR	710
Northfield G-17	50 KGFK 1000 KFMX	1500 1250	Red Bank I-27	1000 100	WODA WJBI	1250 1210
	1000 WCAL	1250	Trenton I-26	500	WOAX	1280
St. Paul G-17	1000 WLB 10000 KSTP	1250	Zarephath I-27	250	WAWZ	1350
MISSISSIPPI	10000 KSIF	1460	NEW MEXICO			
Greenville O-18	100 WRBO	1210	Albuquerque N-7	250	VCCM	1220
Gulfport Q-19	100 WGCM	1210	Raton M-11	250	KGGM KGFL	1230 1370
Hattiesburg Q-19 Jackson P-19	10 WRBJ	1370	State College P-9	20000	KOB	1180
Meridian P-20	1000 WJDX 500 WCOC	1270 880				
Tupelo N-20	100 WDIX	1500	NEW YORK			
Vicksburg P-18	300 WQBC	1360	Albany H-27	500	WOKO	1440
MISSOURI			Auburn H-25 Ringhamton H-26	100 100	WMBO	1310
Cp. Girardeau L-19	100 KFVS	1210	Binghamton H-26 Brooklyn I-27	500	WNBF WBBC	1500 1400
Columbia K-17	500 KFRU	630		1000	WBBR	1300
Grant City J-16 Jefferson City L-17	50 KGIZ 500 WOS	1500		500 500	WCGU WFOX	1400 1 400
Joplin M-16	100 WMBH	630 1420		500	WLTH	1400
Kansas City K-16	1000 KMBC	950		100	WMBQ	1500
	100 KWKC 1000 WDAF	1370 610	Buffalo H-24	100 1000	WMIL WBEN	1500 900
	500 WHB	860		100	WEBR	1310
St. Joseph K-16	1000 WOQ 2500 KFEO	1300		1000 5000	WGR WKBW	550 1 480
St. Joseph R-18	2500 KFEQ 100 KGBX	680 1310		1000	WMAK	1040
St. Louis L-18	500 KFUO	550	Canton F-26	50	WSVS	1370
	100 KFWF 50000 KMOX	1200 1090	Freeport I-27	500 100	WCAD WGBB	1220 1210
	500 KSD	550	Glens Falls G-27	50	WBGF	1370
	1000 KWK 1000 WEW	1350	Ithaca H-25	1000 50	WEAI WLCI	1270 1210
	100 WIL	760 1200	Jamaica H-27	100	WMRJ	1210
MONTANA			Jamestown H-24 Long Island City I-27	50	WOCL	1210
Billings F-9	1000 KGHL	950	New York City I-27	/ 100 5000	WLBX WABC	1500 860
Butte F-7 Great Falls E-8	500 KGIR	1360		250	WBNX	1350
Kalispell D-7	1000 KFBB 100 KGEZ	1280 1310	1	5000 250	WBOQ WCDA	860 1350
Missoula E-7	100 KGVO	1420		50000	WEAF	660
Wolf Point E-11	100 KGCX	1310		500	WEVD	1300
NEBRASKA				500 1000	WGBS WHAP	1180 1300
Clay Center J-14	1000 KMMJ	740		250	WHN	1019
Lincoln J-15	5000 KFAB 100 KFOR	770 1210		30000 5000	WJZ WLWL	760 1100
N. C. W. T	500 WCAJ	590		500	WMCA	570
Norfolk I-15 North Platte J-13	1000 WJAG 500 KGNF	1060	-	250	WMSG	1350
Omaha J-15	500 WAAW	1430 660		50 0 1000	WNYC WOV	570 1130
_	1000 WOW	590		250	WPAP	1010
Ravenna J-14 Scottsbluff I-11	100 KGFW 100 KGKY	1310 1500		500	WPCH	810
York J-15	500 KGBZ	930		250 250	WQAO WRNY	1010 1010

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Patchogue I-27	100	WPOE	1370	Marshfield F-1	100	KOOS	1370
Rochester G-25	5000	WHAM	1150	Medford G-2	100	KMED	1310
	500	WHEC	1440	Portland E-3	5000	KEX	1180
Saranac Lake F-26	50	WNBZ	1290		100	KBPS	1420
Schenectady G-27	50000	WGY	790		500	KFJR	1300
Syracuse G-25	1000	WFBL	1360		1000	KGW	620
	250 250	WMAC WSYR	570 570		1000 500	KOIN KTBR	940 1300
Troy G-27	500	WHAZ	1300		500	KWJJ	1060
Tupper Lake F-26	100	WHDL	1420		100	KXL	1420
Utica G-26	100	WIBX	1200				
Woodside I-27	100	WWRL	1500	PENNSYLVANI.	A.		
Yonkers I-27	100	WCOH	1210	Allentown I-26	250	WCBA	1440
					250	WSAN	1440
NORTH CARO	TNIA			Altoona I-25	100	WFBG	1310
				Carbondale H-26 Elkins Park I-26	10 50	WNBW WIBG	1200 930
Asheville M-23	1000	WWNC	570	Erie H-24	100	WEDH	1420
Charlotte M-24 Gastonia M-24	5000 100	WBT WSOC	1080 1210	Grove City I-24	ĨŎŎ	WSAJ	1310
Greensboro M-24	500	WBIG	1440	Harrisburg I-25	500	WBAK	1430
Raleigh M-25	1000	WPTF	68 0	-	100	WCOD	1200
Wilmington N-26	100	WRAM	1370		500	WHP	1430
Winston-Salem M-24	100	wsjs	1310	Johnstown J-24	100 100	W JAC WGAL	1310 1310
*				Lancaster I-26	100	WKJC	1200
NORTH DAKO	ТА			Lewisburg I-26	100	WIĂU	1210
		17 Days		Oil City I-24	500	WLBW	1260
Bismarck F-13 Devils Lake E-14	1000 100		550	Philadelphia I-26	10000	WCAU	1170
Fargo F-15	1000	KDLR WDA Y	1210 940		100	WELK	1370
Grand Forks E-15	100	KFJM	1370		500	WFAN	610
Mandan F-13	100	KGCU	1200		500 100	WFI WHAT	560 1310
Minot E-13	100	KLPM	1420		500	WIP	610
					500	ŴĹĨŦ	560
OHIO					100	WPEN	1500
Akron I-23	1000	WADC	1320		250	WRAX	1020
Canton I-23	1000	WHBC	1200		100	WTEL	1310
Cincinnati K-22	100	WFBE	1200	Pittsburgh J-24	50000	KDKA	980
	1000	WKRC	550	1	500 1000	KQV WČAE	1380 1220
	50000	WLW	700		1000	WJAS	1290
CI 1 1 7 44	500	WSAI	1330		100	wwsw	1500
Cleveland I-23	500	WGAR	1450	Reading I-26	100	WRAW	1310
	1000 500	WHK WJAY	1390 610	Scranton H-26	250	WGBI	880
	50000	WTAM	1070	State Callers I 25	250	WQAN	880
Columbus J-22	500	WAIU	640	State College I-25 Washington J-24	500 100	WPSC WNBO	1230 1200
	500	WCAH	1430	Wilkes-Barre I-26	100	WBAX	1210
	750	WEAO	570		100	WBRE	1310
Denter I 22	100	WSEN	1210	Williamsport I-25	100	WRAK	1370
Dayton J-22 Mansfield J-22	200 100	WSMK WJW	1380 1210	-			
Mount Orab K-22	100	WHBD	1370	PORTO RICO			
Steubenville J-23	50	WIBR	1420	San Juan W-34	500	WKAO	890
Toledo I-22	500	WSPD	1340	San Juan w-34	500	WKAQ	070
Youngstown I-23	500	WKBN	570				
Zanesville J-23	100	WALR	1210	RHODE ISLAN	D		
				Newport H-28	100	WMBA	1500
OKLAHOMA				Pawtucket H-28	100	WPAW	1210
	250	KOCW	1400	Providence H-28	100	WDWF	1210
Chickasha N-14 Elk City N-13	100	KGMP	1210		250	WEAN	780
Enid M-14	100	KCRC	1370		250 100	WJAR WLSI	890 1210
Norman N-15	5 00	KCRC WNAD	1010		100	WLOI	1210
Oklahoma N-15	5000	KFIF	1480	SOUTH CAROL	INA		
	100	KFXR	1310			WCSC	1260
	100	KGFG	1370	Charleston 0-25	500 500	WCSC WIS	1360 1010
Ponca City M-15	1000 100	WKY WBBZ	900	Columbia N-24 Spartanburg N-23	100	WSPA	1420
S. Coffeyville M-15	500	KGGF	1010	Spartanourg 14-23	100	HOFA	1420
Shawnee N-15	100	KGFF	1420	SOUTH DAKOT	ГА		
Tulsa M-15	5000	KVOO	1140	Brookings H-15	500	KEDY	550
000000				Huron H-14	100	KFDY KGDY	1200
OREGON				Mitchell H-14	100	KGDA	1370
Astoria D-2	100	KFJI	1370	Pierre G-13	200	KGFX	580
Corvallis_E-2	1000	KOAC	550	Rapid City H-12	100	WCAT	1200
Bugene F-2	100	KORE	1420	Sioux Falls H-15	2000	KSOO	1110
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Watertown G-15 Yankton I-15 100 KGCR I 1210 I Richmond K-26 I 00 WHBC I 120 IO WHBC WWBC 120 IO WWBC WWBC 120 IO WWBC WWC 120 IO WWBC WWC 120 IO WWBC WWBC 120 IO WWBC WWC 120 IO WWBC WWC 120 IO WWBC WWC 120 IO WWBC WWC 120 IO WWBC WWSC 120 IO WWBC WWSC 120 IO WWBC WWSC 120 IO WWBC WWSC 120 IO WWBC WWSC 120 IO WWBC WWSC 1
Yankton 1-15 1000 WNAX 570 Koninoid P 20 Tool WMEG 120 TENNESSEE 100 WOPI 500 WRVA 11 Chattenooga N-21 100 WOPD 1200 WASHINGTON 250 WRBX 14 Memphis N-19 500 WRC 1310 WASHINGTON 300 KRC 130 Memphis N-19 500 WRC 1310 berlingham C-3 100 KPOS 130 Mashville M-21 500 WRC 600 NKR 130 Ferett C-3 500 KRC 100 KVSC 120 Seattle C-3 500 KRC 100 KVSC 120 100 KCSC 100 KCPO 120 100 KCSC 100 KCSC 100 KCPO 120 100 KCSC 100 KCPO 100 KCSC 100 KCPO 100 KCSC 100 KCPO 120 100 KCSC
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Nashville M-21 5000 WLAC 1470 100 5000 WLAC 1470 100 KSEA 5000 KSC 11 Springfield M-20 100 WSIX 1210 100 KRSC 11 Union City M-19 100 WOBT 1310 100 KFCB 6 Abilene P-13 100 KFYO 1420 500 KKA 5 Abilene P-13 1000 KFYO 1420 5000 KCA 14 Austin Q-14 1000 KUT 1500 KKDM 5 5000 KCA 14 Austin Q-14 100 KGFI 1500 KRDM 5 5000 KCA 14 Corpus Christi S-14 100 KGFI 1500 Walla Walla E-5 1000 KVI 7 Dublin P-14 100 KFPI 1310 Fairmont J-24 250 WMNN 8 Dublin P-14 100 KFPI 1310 Fairmont J-24 250
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Abilene P-13 Amarillo N-12100KFYO 14201420 1400Spokane D-5100KFIO 1111 1000KFIO 11Amarillo N-121000KGRS1410 1000MDAG1410 10001000KFPY 1313 100013 100013 10001000KFPY 13 100013 100013 10001400Austin Q-14100KUT1500KWWG1260 100012601000KKIO13 1000Beaumont R-17500WTAW1120 1000KKIT1500Walla Walla E-5 10001000KVI7 Vakima D-4500KVI7 Vakima D-450KUI13 13Corpus Christi S-141000KFL1310 1000KFL1310 Fairmont J-24WEST VIRGINIAWEST VIRGINIADublin P-14100KFLX1370 1000KTAT1310 Fairmont J-24S0WHIS14 Charleston K-23250WOBU8 KEZDublin P-151000KFLX1370 1000KFIX1370 KEXWheeling J-245000WWA11Salveston R-161000KFLX1370 1000KTRC1300 KTRWiseling J-245000WTAQ13 Key 12San Angelo Q-13100KGKL1370 100KTRA1200 KTSMaitson H-19100WCLO12 Key 12San Angelo Q-13100KGKL1370 100KARA1370 KARAMaitson H-19250WISN11 Kis
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Allia III0 1000 $KGK3$ 1410 1000 $KGK3$ 1410 Austin Q-14100 KUT 1500 1000 $KH0$ 5 Austin Q-14100 KUT 1500 1000 $KH0$ 5 Brownsville U-15500 $KWWG$ 1260 1000 $KH1$ 5 College Sta. Q-15500 $WTAW$ 1120 $Walla Walla E-5$ 1000 KVI 7 Corpus Christi S-14100 $KGFI$ 1500 $Wenatchee D-4$ 50 KIT 1310 Dublin P-141000 $KFPL$ 1310 $WEST$ $VIRGINIA$ $Westr VIRGINIA$ El Paso P-9100 $KTSM$ 1310 $Huntington K-23$ 250 $WSA2$ 5 Fort Worth P-15100 $KFIZ$ 1370 $Huntington K-23$ 250 $WSA2$ 5 Jalveston R-16100 $KFLX$ 1370 $Huntington K-23$ 250 $WSA2$ 5 Jalveston R-16100 $KFLX$ 1370 $Huntington K-23$ 250 $WKA2$ 13 Janston R-16100 $KFLX$ 1370 $Huntington K-23$ 250 $WKB1$ 13 Jan Angelo Q-13100 $KGKL$ 1370 $Huntington H-19$ 100 $WHB1$ 130 San Angelo Q-13100 $KGKL$ 1370 $Manitowoc H-20$ 100 $WRB1$ 12 Just Alex Current R-161000 $KTAP$ 120 100 $WRB1$ 12 $Maco Q-13$ 100 $KGKL$ <
Austin Q-141000WDAG14101000KHQ5Beaumont R-17500KFDM560Tacoma D-3500KMO8Brownsville U-15500WTAW1120Walla Walla E-51000KVI7College Sta. Q-15500WTAW1120Wenatchee D-450KPQ13Corpus Christi S-14100KGFI1000Walla Walla E-51000KUJ13Dublin P-14100KFPL1310Wenatchee D-450KIT13Fort Worth P-15100KTSM1310Fairmont J-24250WHIS14Fort Worth P-15100KFJZ1370Huntington K-23250WSAZ5Jalveston R-16100KFLX1370WiSCONSINWisconsin100WISCONSINGreenville O-1515KFPM1310Fond du Lac H-19100WFIZ14Harlingen T-14500KRGV120Green Bay G-19100WHBY12Houston R-16100KTRC130Fond du Lac H-19100WKLD12San Angelo Q-13100KGKL1370Maitson H-19750WHA140San Angelo Q-13100KGKL1370Maitson H-19250WISJ7San Angelo Q-13100KGKL1370Maitson H-19100WMA14Maco Q-15100KGKL130Racine I-20100WHD12Son
Austin Q-17100KD11900Tacoma D-3500KM08Brownsville U-15500KWWG12601000KUJ13Corpus Christi S-14100KGFI1500Walla Walla E-5100KUJ13Dallas P-1510000KRLD1040Wenatchee D-450KPQ155000WRA12801000KRLD1040Wenatchee D-450KIT13Dublin P-14100KFPL1310West VIRGINIAWEST VIRGINIA50KIT13Fort Worth P-15100KFJZ1370Weest VIRGINIAS00WKAZ50WMMN8Greenville O-1515KFPM1310Fairmont J-24250WMN8Weeling J-245000WWA11Jalveston R-161000KFLX1370WisCONSINEau Claire G-181000WTAQ13Greenville O-1515KFPM1310Fond du Lac H-19100KFIZ14Harlingen T-14500KRGV120Janesville I-19100WHBY12Jood KTRH1120Maison H-19750WHA9500WIBJ7San Angelo Q-13100KGKL1370Maitowc H-20100WOMT12Jood KTAP100KGKL1370250WISJ7100WIB12Jood KTAP100KGKL1370250WISJ1001001001
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$\begin{array}{c} \mbox{Corpus Christi S-14} & 100 & {\rm KGFI} & 150 \\ \mbox{Dallas P-15} & 10000 & {\rm KRLD} & 1040 \\ \mbox{Solo} & {\rm WRR} & 1280 \\ \mbox{Solo} & {\rm WRR} & 1280 \\ \mbox{Dublin P-14} & 100 & {\rm KFPL} & 1310 \\ \mbox{El Paso P-9} & 100 & {\rm KTSM} & 1310 \\ \mbox{Fort Worth P-15} & 100 & {\rm KFJZ} & 1370 \\ \mbox{1000} & {\rm KTAT} & 1240 \\ \mbox{I000} & {\rm KTAT} & 1240 \\ \mbox{I000} & {\rm KFLX} & 1370 \\ \mbox{Salveston R-16} & 100 & {\rm KFUL} & 1290 \\ \mbox{Greenville O-15} & 15 & {\rm KFPM} & 1310 \\ \mbox{Harlingen T-14} & 500 & {\rm KRGV} & 1260 \\ \mbox{Harlingen T-14} & 500 & {\rm KRGV} & 1260 \\ \mbox{Solo} & {\rm KTRH} & 1120 \\ \mbox{Harlingen T-14} & 500 & {\rm KRKL} & 1370 \\ \mbox{San Angelo Q-13} & 100 & {\rm KGKL} & 1370 \\ \mbox{San Antonio R-14} & 100 & {\rm KGKL} & 1370 \\ \mbox{Tyler P-16} & 1000 & {\rm KTSA} & 1290 \\ \mbox{Vichita Falls O-14} & 250 & {\rm KGKO} & 1240 \\ \mbox{Vichita Falls O-14} & 250 & {\rm KGCO} & 1240 \\ \mbox{Vichita Falls O-14} & 250 & {\rm KLO} & 1400 \\ \mbox{Salt Lake City I-7} & 1000 & {\rm KDYL} & 1290 \\ \end{tabular}$
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Dublin P-14 100 KFPL 1310 Bluefield L-24 250 WHIS 14 El Paso P-9 100 KTSM 1310 Fairmont J-24 250 WOBU 5 Fort Worth P-15 100 KFJZ 1370 Fairmont J-24 250 WMMN 8 Jouoo KTAT 1240 Huntington K-23 250 WSAZ 5 Jouoo KTAT 1240 Wheeling J-24 5000 WWVA 11 Jouoo KFUL 1310 Fond du Lac H-19 100 WTAQ 13 Greenville O-15 15 KFPM 1310 Green Bay G-19 100 WHB 12 Houston R-16 1000 KRC 920 Janesville I-19 100 WHB 12 San Angelo Q-13 100 KGKL 1370 Manitowoc H-20 100 WOMMT 12 San Angelo Q-13 100 KGKB 1500 KAA 1420 1000 WIBU 12 <td< td=""></td<>
EI Paso P-9 100 KTSM 1310 Charleston K-23 250 WOBU 5 Fort Worth P-15 100 KTSM 1310 Fairmont J-24 250 WMMN 8 Fort Worth P-15 100 KFJZ 1370 Huntington K-23 250 WSAZ 5 Salveston R-16 100 KTX 1310 Wheeling J-24 500 WWAVA 11 Greenville O-15 15 KFPM 1310 Fond du Lac H-19 100 WTAQ 13 Greenville O-15 15 KFPM 1310 Fond du Lac H-19 100 WHBY 12 Houston R-16 1000 KPC 920 Janesville I-19 100 WHBY 12 San Angelo Q-13 100 KTSA 1200 KTAP 1420 500 WiBJ 7 San Angelo Q-13 100 KTSA 1200 KTSA 1200 Maitowoc H-20 100 WOMT 12 Maco Q-15 1000 KGKB 1500 KGKD 17 1000 WTMJ 6 1000 WTMJ
Fort Worth P-15 100 KFJZ 1310 Fairmont J-24 250 WMMN 8 Fort Worth P-15 100 KFJZ 1370 Wheeling J-24 5000 WWXA 11 Salveston R-16 100 KFLX 1370 Wheeling J-24 5000 WWXA 11 Greenville O-15 15 KFPM 1310 Wheeling J-24 5000 WWXA 11 Harlingen T-14 500 KRGV 1260 Wasser Eau Claire G-18 1000 WTAQ 13 Houston R-16 1000 KRGV 1260 Green Bay G-19 100 KFIZ 14 Houston R-16 1000 KTRH 1120 Janesville 1-19 100 WCLO 12 San Angelo Q-13 100 KGKL 1370 Maitowoc H-20 100 WIBJ 7 San Antonio R-14 100 KGKB 1370 Maitowoc H-20 100 WOMT 12 Tyler P-16 1000 KGKB 1500 WACO 1240 250 WIBU 12 Yere P-16 1000
Fort Worth P-15 100 KFJZ 1370 1370 Huntington K-23 250 WSAZ 5 J000 KTAT 1240 S000 Wheeling J-24 5000 WWVA 11 Jalveston R-16 100 KFJZ 1370 Wheeling J-24 5000 WWVA 11 Greenville O-15 15 KFPM 1310 Eau Claire G-18 1000 WTAQ 13 Harlingen T-14 500 KRGV 1260 Green Bay G-19 100 KFIZ 14 Houston R-16 1000 KTLC 1310 Green Bay G-19 100 WHBY 12 Janesville I-19 100 KCLC 1310 La Crosse H-18 1000 WKBH 13 San Angelo Q-13 100 KGKL 1370 Manitowoc H-20 100 WOMT 12 San Angelo Q-13 100 KGKL 1370 100 KGKL 1370 Manitowoc H-20 100 WOMT 12 Tyler P-16 100 KGKB 1500 1000 KGKB 100 WIBU 12
1000 KTAT 1240 Wheeling J-24 5000 WWVA 11 Jalveston R-16 1000 WBAP 800 Wheeling J-24 5000 WWVA 11 Jalveston R-16 100 KFLX 1370 Superior Wheeling J-24 5000 WWVA 11 Greenville O-15 15 KFPM 1310 Fond du Lac H-19 100 KFIZ 14 Houston R-16 1000 KRGV 1260 Green Bay G-19 100 WHBY 12 Janesville I-19 100 KTRH 1120 Janesville I-19 100 WCL 12 14 Houston R-16 1000 KTRH 1120 Janesville I-19 100 WCL 12 14 San Angelo Q-13 100 KGKL 1370 Manitowoc H-20 100 WOMT 12 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 Tyler P-16 1000 KGKB 1500 WACO 120 Nilwaukee H-19 </td
Joboo WBAP 800 Jalveston R-16 100 KFLX 1370 Greenville O-15 15 KFPM 1310 Harlingen T-14 500 KRGV 1260 Houston R-16 1000 KPC 920 Joboo 100 KTLC 1370 Greenville O-15 15 KFPM 1310 Harlingen T-14 500 KRGV 1260 Houston R-16 1000 KTLC 1310 100 KTLC 1310 KGKL 1370 San Angelo Q-13 100 KGKL 1370 100 KTAP 1420 100 Wastor 100 KTAP 1420 500 WIBJ 7 San Angelo Q-13 100 KGKL 1370 Manitowoc H-20 100 WOMT 12 100 KTAP 1420 100 WilsJ 7 1000 KTAP 1420 100 WilbU 12
Salveston R-16 100 KFLX 1370 WISCONSIN Greenville O-15 15 KFPM 1310 Eau Claire G-18 1000 WTAQ 13 Harlingen T-14 500 KRGV 1260 Fond du Lac H-19 100 KFIZ 14 Houston R-16 1000 KPRC 920 Janesville I-19 100 WELO 12 San Angelo Q-13 100 KGKL 1370 Janesville I-19 100 WCLO 12 San Antonio R-14 100 KGKL 1370 Manitowoc H-20 100 WISJ 7 San Antonio R-14 100 KGKB 1370 Manitowoc H-20 100 WOMT 12 100 KTAP 1420 100 KGKB 1370 Manitowoc H-20 100 WISJ 7 Souro WOA1 1190 KGKB 1500 KGKD 1400 Wilwaukee H-19 250 WISJ 11 1000 KTAP 1420 100 WIBU 12 250 WISJ 11 1000 KGKB 1500
Soo KFUL 1290 Eau Claire G-18 1000 WTAQ 13 Harlingen T-14 500 KRGV 1310 Fond du Lac 100 KFIZ 14 Harlingen T-14 500 KRGV 1260 Green Bay G-19 100 WHBY 12 Houston R-16 1000 KTLC 1310 Janesville I-19 100 WCLO 12 San Angelo Q-13 100 KGKL 1370 Madison H-19 750 WHA 9 San Angelo Q-13 100 KGKL 1370 100 KAYZ 1420 100 KTAC 130 KGKL 1370 500 WIBA 12 San Angelo Q-13 100 KGKL 1370 Manitowoc H-20 100 WOMT 12 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KTSA 1290 100 WACO 1200 KTSA 1200 100 WIBU
Greenville O-15 15 KFPM 1310 Fond du Lac H-19 100 KFIZ 14 Harlingen T-14 500 KRGV 1260 Green Bay G-19 100 WHBY 12 Houston R-16 1000 KTLC 1310 Green Bay G-19 100 WHBY 12 Janesville I-19 100 KTLC 1310 Janesville I-19 100 WCLO 12 San Angelo Q-13 100 KGKL 1370 Madison H-19 750 WHA 9 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KTSA 1290 100 KTSA 1290 100 WIBU 12 Tyler P-16 100 KGKB 1500 Maco 120 Macine I-20 100 WIBU 12 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 Superior F-17 1000 WACO 1240 Stevens Pt. G-19 2000 WLBL 9 Salt Lake City I-7
Harlingen T-14 500 KRGV 1260 Green Bay G-19 100 WHBY 12 Houston R-16 1000 KPRC 920 Janesville I-19 100 WCLO 12 100 KTLC 1310 KTRH 1120 La Crosse H-18 100 WCLO 12 San Angelo Q-13 100 KGKL 1370 Madison H-19 750 WHA 9 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KTAP 1420 100 KTAP 120 500 WIBA 9 100 KTAP 1420 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KTAP 1420 100 KTAP 120 250 WISN 11 100 KTAP 1420 100 WIBU 12 250 WISN 11 1000 KTAP 1200 Solo WIBU 12 250 WISN 11 1000 WGOW KGKB
Houston R-16 1000 KPRC 920 Janesville I-19 100 WCLO 12 100 KTLC 1310 La Crosse H-18 1000 WKBH 13 500 KTRH 1120 Madison H-19 750 WHA 9 San Angelo Q-13 100 KGKL 1370 500 WIBA 12 San Antonio R-14 100 KMAC 1370 250 WISJ 7 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KTSA 1290 100 WISJ 7 500 WIAD 11 100 KTSA 1290 100 WIMJ 6 50000 WOAI 1190 Poynette H-19 100 WIBU 12 Yer P-16 100 KGKB 1500 Racine I-20 100 WIBU 12 Waco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Wichita Falls O-14 250 KGKO 570 Super
500 KTRH 1120 Madison H-19 750 WHA 9 San Angelo Q-13 100 KGKL 1370 500 WIBA 12 San Antonio R-14 100 KMAC 1370 Madison H-19 750 WHA 9 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KONO 1370 Milwaukee H-19 250 WHAD 11 100 KTAP 1420 Milwaukee H-19 250 WHAD 11 100 KTAP 1420 Manitowoc H-20 100 WOMT 12 50000 WOA1 1190 Racine I-20 100 WIBU 12 Yeler P-16 1000 KGKB 1500 Sheboygan H-20 500 WHBL 14 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 Superior F-17 1000 KDY 1400 Stevens Pt.
San Angelo Q-13 100 KXYZ 1420 500 WIBA 12 San Antonio R-14 100 KGKL 1370 250 WISJ 7 San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KTAP 1420 100 KGKD 1370 Manitowoc H-20 100 WOMT 12 100 KTAP 1420 100 KTAP 120 100 WISJ 7 100 KTAP 1420 100 WoMT 12 250 WHAD 11 100 KTSA 1290 1000 WTMJ 6 50000 WOA1 1190 Poynette H-19 100 WIBU 12 Yaco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 Superior F-17 1000<
San Angelo Q-13 San Antonio R-14 100 100 KGKL MAC 1370 1370 Manitowoc H-20 Milwaukee H-19 250 WISJ 7 San Antonio R-14 100 KMAC 1370 100 Manitowoc H-20 100 WOMT 12 Manitowoc H-19 250 WISJ 7 100 WOMT 12 Manitowoc H-20 100 WOMT 12 100 WOMT 12 Maritowoc H-20 100 WOMT 12 100 WISJ 7 Tyler P-16 100 KGKB 1500 WACO 1240 Racine I-20 100 WIBU 12 Waco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Sheboygan H-20 500 WHBL 14 Superior F-17 1000 WEBC 12 UTAH 7 500 KLO 1400 WYOMING 130 KDFN 12
San Antonio R-14 100 KMAC 1370 Manitowoc H-20 100 WOMT 12 100 KONO 1370 Milwaukee H-19 250 WHAD 11 100 KTSA 1290 Milwaukee H-19 250 WHAD 11 1000 KTSA 1290 1000 WTMJ 6 50000 WOAI 1190 Racine I-20 100 WIBU 12 Tyler P-16 100 KGKB 1500 Racine I-20 100 WIBU 13 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 Superior F-17 1000 WEBC 12 WYOMING 12 WYOMING 100 KDFN 12
100 KONO 1370 Milwaukee Milwaukee H-19 250 WHAD 11 100 KTAP 1420 100 KTAP 1420 250 WISN 11 1000 KTSA 1290 1000 WTMJ 6 1000 WTMJ 6 50000 WOA1 1190 Poynette H-19 100 WISN 11 Tyler P-16 100 KGKB 1500 Racine I-20 100 WIBU 12 Waco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Stevens Pt. G-19 2000 WLBL 9 Superior F-17 1000 WEBC 12 UTAH Ogden I-7 500 KLO 1400 Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
100 KTAP 1420 250 WISN 11 1000 KTSA 1290 1000 WTMJ 6 50000 WOA1 1190 Poynette H-19 100 WIBU 12 Tyler P-16 100 KGKB 1500 Racine I-20 100 WIBU 12 Waco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 UTAH Ogden I-7 500 KLO 1400 Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
1000 KTSA 1290 1000 WTMJ 6 50000 WOAI 1190 Poynette H-19 100 WIBU 12 Waco Q-15 1000 WACO 1240 Racine I-20 100 WBU 12 Wichita Falls O-14 250 KGKO 570 Sheboygan H-20 500 WHBL 14 Superior F-17 1000 WEBC 12 Superior F-17 1000 WEBC 12 UTAH
Tyler P-16 100 KGKB 1500 Racine I-20 100 WRJN 13 Waco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 UTAH Ogden I-7 500 KLO 1400 WYOMING 000 KDFN 12 Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
Waco Q-15 1000 WACO 1240 Sheboygan H-20 500 WHBL 14 Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 UTAH Ogden I-7 500 KLO 1400 Salt Lake City I-7 1000 KDYL 1290 WYOMING
Wichita Falls O-14 250 KGKO 570 Stevens Pt. G-19 2000 WLBL 9 UTAH Ogden I-7 500 KLO 1400 WYOMING Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
UTAH Superior F-17 1000 WEBC 12 Ogden I-7 500 KLO 1400 WYOMING 100 KDFN 12 Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
UTAH Ogden I-7 500 KLO 1400 Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
Ogden I-7 500 KLO 1400 WIOMING Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
Salt Lake City I-7 1000 KDYL 1290 Casper H-10 100 KDFN 12
5000 KSL 1130 II
VERMONT CANADA
Burlington F-27 100 WCAX 1200
Rutland G-27 100 WSYB 1500 ALBERTA
St. Albans F-27 100 WQDM 1370 Springfield G-27 10 WNBX 1200 Calgary B-7 500 CFAC 6
500 CFCN 9
VIDCINIA 500 CHCA 6
Alexandria K-26 10000 WJSV 1460 500 CNRC 6
Arlington J-25 1000 NAA 690 Edmonton A-8 250 CHMA 5
Danville L-25 100 WBTM 1370 500 CJCA 9
Emory L-23 500 WEHC 1350 500 CKUA 5 Lynchburg L-25 100 WLVA 1370 Lethbridge C-8 50 CJOC 11
Lynchburg L-25 100 WLVA 1370 Lethbridge C-8 50 CJOC 11 Newport News L-26 100 WGH 1310 Red Deer A-8 1000 CHCT 8
Norfolk L-26 500 WPOR 780 1000 CKLC 8
500 WTAR 780 1000 CNRD 8

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BRITISH	Watts	Kcys.	SASKATCHEWA	Ν		
COLUMBIA		-	Fleming C-13	50 0	CJRW	665
Chilliwack B-3	100 CHWK	665	Moose Jaw C-11	500	CJRM	665
Kamloops B-5	100 CFJC	1120	Regina C-12	$\begin{array}{c} 500 \\ 500 \end{array}$	CHWC CJBR	960 960
Sea Island Vancouver B-3	500 CJOR 50 CHLS	1210 730		500	CKCK	960
vancouver D-J	50 CKCD	730		500	CNRR	960
	50 CKFC	730	Saskatoon B-11	500 500	CFQC CNRS	910 910
	50 CKMO 100 CKWX	730 730	Yorkton B-13	500	ĊJGX	630
	500 CNRV	1030				
Victoria C-3	500 CFCT	630	HAITI			
MANITODA						
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			
			MERICO			
NEW BRUNS		1210	Aguascalientes W-10	350	XFC	805
Fredericton D-29 Moncton D-30	500 CFNB 500 CNRA	1210 630	Chihuahua, Chih. R-9	250 101	XFF XEA	915 1200
St. John D-30	500 CFBO	890	Guadalajara, Jal. X-10 Juarez P-9	101	XEJ	857
NEWFOLINIDI				1000	XEQ	1015
NEWFOUNDL St. Johns A-35	AIND 500 8WMC	68 2	Laredo, N. L. S-13	101 2500	XEFE XEP	980 1400
NOVA SCOTI	A		Merida, Yuc. X-19 Mexico City Y-13	105 1000	XEY XEB	547 1030
NOVA SCOTI Glace Bay C-32	A 10000 VAS	685		250	XEFA	1250
Halifax E-31	500 CHNS	910		101 1000	XEK XEN	990 711
P-1 C 12	500 CNRH	910		5000	XEO	940
Sydney C-32 Wolfville D-31	50 CJCB 50 CKIC	880 1010		101	XER	674
		1010		500 100	XETA XETO	1140 1485
ONTARIO				2000	XETY	1300
Chatham H-22	100 CFCO 15 CKMC	1210 1210		500	XEX	1210
Cobalt E-23 Hamilton H-24	10 CHCS	1120		5000 500	XEW XEZ	780 588
	50 CHML	880		2000	XFG	638
Vingeton C 25	50 CKOC 500 CFRC	1120 930		1000	XFI	818
Kingston G-25 London H-23		910	Monterrey, N. L. U-13	500 5000	XFX XEH	860 1080
	5000 CJGC 500 CNRL	910		500	XET	630
North Bay Ottawa F-25	50 CFCH 100 CKCO	1200 890	Morelia, Mich. Y-12	101	XEI	1000
Ottawa 1-25	500 CNRO	600	Oaxaca, Oak. AA-14 Puebla Z-13	105 101	' XEE ' XEV	1132 1034
Port Arthur E-19	50 CKPR	890	Reynosa, Tams. T-14	10000	XED	961
Prescott F-25 Preston H-23	50 CFLC 25 CKPC	1010 1210	Saltillo, Coah. U-12	10 500	XEL XEM	1091 730
Toronto G-24	500 CFCA	840	Tampico, Tams. W-14	500	XES	890
	500 CFCL	580	Toluca. Y-12	50	XEC	1333
	5000 CFRB 500 CKCL	960 580	Veracruz, Ver. Z-14	500 101	XETF XEU	680 800
	5000 CKGW	690		101	782-0	500
	500 CKNC	580	CI DI			
	500 CNRT 5000 CNRX	840 960	CUBA			
	5000 CPRY	6 90	Cardenas W-24	30	CMGE	1375
Waterloo G-23 Wingham G-23	50 CKCR 25 10-BP	1010 1200	Camaguey W-26	15	CMJC	1321
11 Indiani ()-79	20 IU-DP	1200	Ciego de Avila W-26	20 20	CMJE CMJB	856 1276
PRINCE BDW	ARD ISLAND		Cienfuegos W-25	200	CMHA	1154
Charlottetown C-3		960		40	CMHJ	645
Summerside C-31	100 CHCK 100 CHGS	960 1120	Colon W-24 Havana W-23	100 50	CMGA CMBA	834 1345
	100 01100	_123	I IAVAIIA W#20	150	CMBC	965
QUBBEC			1	150	CMBD	965
Montreal E-26	1650 CFCF	1030 7 3 0	11	150	5 CMBF CMBG	1345 1070
	5000 CHYC 5000 CKAC	730	1	30	CMBI	1405
	5000 CNRM	730		15	CMBJ	1285
Quebec D-27	100 CHRC 22 CKCI	645 880		15 15	CMBK CMBL	1405 1500
	22 CKCI 50 CKCV	880	k	15	CMBM	1285
	50 CNRQ	880		30	CMBN	1405
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CFAC

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KECA

						N K	ECA
CFAC 690	1./	CJRM 665	1./	CMBQ 1405	1	CMKA 1450	
Calgary, Alta. CFBO 890		Moose Jaw, Sask.	V	Havana, Cuba		CMKA 1450 Santiago, Cuba	
St. John, N. B.	V	CJRW 665 Fleming, Sask	1 I	CMBR 1500		CMKB 1200	
CFCA 840	1	CKAC 730	1.1	Havana, Cuba CMBS 790		Santiago, Cuba	
Toronto, Ont.		Montreal, Que.		Havana, Cuba	V	CMKC 1034 Santiago, Cuba	
CFCF 1030 Montreal, Que.	V	CKCD 730 Vancouver, B.C.		CMBT 1070		CMKD 1100	
CFCH 1200		CKCI 880		Havana, Cuba CMBW 1010		Santiago, Cuba	
North Bay, Ont.	V	Quebec, Que.		CMBW 1010 Havana, Cuba		CMKE 1249 Santiago, Cuba	
CFCL 580 Torento, Ont.		CKCK 960	V	CMBX 1405		CMKF 1363	
CFCN 985		Regina, Sask. CKCL 580		Havana, Cuba		Holguin, Cuba	
Calgary, Alta.	Y	Toronto, Ont.	V	CMBY 1405 Havana, Cuba		CMKG 1176	
CFCO 1210 Chatham Ont		CKCO 890		CMBZ 1010		Santiago, Cuba CMKH 1327	
Chatham, Ont. CFCT 630		Ottawa, Ont. CKCR 1010		Havana, Cuba	L	Santiago, Cuba	
Victoria, B. C.		Waterloo, Ont.		CMC 840 Havana, Cuba	V	CMQ 1150	
CFCY 960	1	CKCV 880		CMCA 1225		Havana, Cuba CMW 588	
Ch'lottet'n,P.E.I. CFJC 1120		Quebec, Que.		Havana, Cuba		Havana, Cuba	
Kamloops, B. C.		CKFC 730 Vancouver, B.C.		CMCB 1070 Havana, Cuba	V	CMX 890	1/
CFLC 1010	./	CKGW 690	.7	CMCD 1225		Havana, Cuba CNRA 630	V
Prescott, Ont. CFNB 1210		Toronto, Ont.		Havana, Cuba		Moncton, N.B.	IV
CFNB 1210 Fredericton, N.B.		CKIC 1010 Wolfville, N.S.	V	CMCF 890		CNRC 690	
CFQC 910		CKLC 840		Havana, Cuba CMCG 1285		Calgary, Alta. CNRD 840	
Saskatoon, Sask.		Red Deer, Alta.	\mathbf{Y}_{-}	Havana, Cuba		Red Deer, Alta.	
CFRB 960 Toronto, Ont.	V	CKMC 1210 Cobalt, Ont.		CMCH 1285		CNBH 910	./
CFRC 930	. /	CKMO 730		Havana, Cuba CMCM 1500		Halifax, N. S.	V,
Kingston, Ont.	V	Vancouver, B.C.	V	Havana, Cuba		CNRL 910 London, Ont.	V
CHCA 690		CKNC 580	1	CMCN 1225		CNRM 730	
Calgary, Alta. CHCK 960		Toronto, Ont. CKOC 1120	<u> </u>	Havana, Cuba CMCO 660		Montreal, Que.	V
Ch'lottet'n,P.E.I.		Hamilton, Ont.	V	CMCO 660 Havana, Cuba	1 1	CNRO 600 Ottawa, Ont.	1
CHCS 1120	6	CKPC 1210	1/	CMCQ 1150		CNRQ 880	
Hamilton, Ont. CHCT 840		Preston, Ont. CKPR 890	<u></u>	Havana, Cuba		Quebec, Que.	
Red Deer, Alta.		Port Arthur, Ont.	\mathbf{V}	CMCR 1285 Havana, Cuba		CNRR 960	V
CHGS 1120		CKUA 580		CMCT 1500		Regina, Sask. CNRS 910	_ <u>v</u>
Sum'rside, P.E.I. CHLS 730	V	Edmonton, Alta.		Havana, Cuba		Saskatoon, Sask.	
Vancouver, B.C.		CKWX 730 Vancouver, B.C.	V	CMCU 1345 Havana, Cuba		CNRT 840	1/
CHMA 580		CKX 540		CMCY 1345		Toronto, Ont. CNRV 1030	<u>v</u>
Edmonton, Alta.		Brandon, Man.		Havana, Cuba		Vancouver, B.C.	V
CHML 880 Hamilton, Ont.	V	CKY 780	\mathbf{V}	CMGA 834		CNRW 780	V
CHNS 910	./	Winnipeg, Man. CMAB 1249		Colon, Cuba CMGB 1185		Winnipeg, Man. CNBX 960	
Halifax, N.S.	Y	Pinar del Rio, Cu.		Matanzas, Cuba		CNBX 960 Toronto, Ont.	V
CHRC 645		CMAC 1375		CMGD 1140		CPRY 690	1
Quebec, Que. CHWC 960	. /	Pinar del Rio, Cu. CMBA 1345		Matanzas, Cuba CMGE 1375		Toronto, Ont.	<u> </u>
Regina, Sask.	V	Havana, Cuba		Cardenas, Cuba		HHK 920 Port au Prince, H.	
CHWK 665		CMBC 965		CMGF 977		KBPS 1420	
Chilliwack, B.C. CHYC 730		Havana, Cuba CMBD 965		Matanzas, Cuba		Portland, Ore.	
Montreal, Que.	V	Havana, Cuba		CMGH 780 Matanzas, Cuba		KBTM 1200 Paragould, Ark.	
CJBR 960		CMBF 1345		CMHA 1154		KCRC 1370	. /
Regina, Sask. CJCA 930		Havana, Cuba CMBG 1070		Cienfuegos, Cuba		Enid, Okla.	V
Edmonton, Alta.	V	Havana, Cuba		CMHC 790 Tuinucu, Cuba		KCRJ 1310	
CJCB 880	./	CMBI 1405		CMHI 1110		Jerome, Ariz. KDB 1500	
Syndey, N.S. CJCJ 690	V	Havana, Cuba		Santa Clara, Cu.		S. Barbara, Cal.	
Calgary, Alta.		CMBJ 1285 Havana, Cuba		CMHJ 645 Cienfuegos, Cuba		KDFN 1210	
CJGC 910	1/	CMBK 1405		CMJB 1276		Casper, Wyo. KDKA 980	
London, Ont.	V	Havana, Cuba		Ciego de Avila		Pittsburgh, Pa.	V
CJGX 630 Yorkton, Sask.	\mathbf{v}	CMBL 1500 Havana, Cuba		CMJC 1321		KDLR 1210	
CJOC 1120		CMBM 1285		Camaguey, Cuba CMJE 856		Devils Lake, N.D. KDYL 1290	
Lethbridge, Alta.		Havana, Cuba		Camaguey, Cuba		Salt Lake City	V
CJOR 1210		CMBN 1405		CMK 730		KECA 1430	1
Sea Island, B.C.		Havana, Cuba		Havana, Cuba		Los Angeles, Cal.	K
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KELW 780	KFQD 1230	1	KGEF 1300		KGY 1200	
Burbank, Cal.	Anchorage, Alas. KFQU 1420		Los Angeles, Cal. KGEK 1200		Lacey,Wash. KHJ 900	
KEX 1180 Portland, Ore.	Holy City, Cal.	V	Yuma, Colo.		Los Angeles, Cal.	V
KFAB 770	KFQW 1420		KGER 1360	V	KHQ 590	./
Lincoln, Nebr.	Seattle, Wash. KFRC 610		Long Beach, Cal. KGEW 1200	V /	Spokane, Wash. KICK 1420	-V
Los Angeles, Cal.	San F'ncisco, Cal.	V	Ft.Morgan, Colo.	V_{-}	Red Oak, Iowa.	
KFBB 1280 Great Fls., Mont.	KFRU 630 Columbia, Mo.	\vee	KGEZ 1310 Kalispell, Mont.		KID 1320 Idaho Falls, Ida.	V
KFBI 1050	KFSD 600	T	KGFF 1420		KIDO 1250	./
Milford, Kans.	San Diego, Cal.		Shawnee, Okla. KGFG 1370		Boise, Idaho	<u></u>
KFBK 1310 Sacramento, Cal.	KFSG 1120 Los Angeles, Cal.	V	KGFG 1370 Oklahoma City		KIT 1310 Yakima, Wash.	
KFBL 1370	KFUL 1290	V	KGFI 1500		KJBS 1070	
Everett, Wash. KFDM 560	Galveston, Tex. KFUM 1270		Corpus Ch'sti, Tex KGFJ 1200		San F'ncisco, Cal. KJR 970	
Beaumont, Tex.	Col. Spgs., Colo.	V.	Los Angeles, Cal.		Seattle, Wash.	V_{-}
KFDY 550 Brookings, S.D.	KFUO 550 St. Louis, Mo.	V	KGFK 1500 Moorhead, Minn.		KLCN 1290 Blytheville, Ark.	
KFEL 920	KFUP 1310		KGFL 1370	100	KLO 1400	./
Denver, Colo.	Denver, Colo. KFVD 1000		Raton, N. M. KGFW 1310		Ogden, Utah KLPM 1420	
KFEQ 680 St. Joseph, Mo.	Culver City, Cal.		Ravenna, Nebr.		Minot, N. Dak.	
KFGQ 1310	KFVS 1210	V	KGFX 580		KLRA 1390	V
Boone, Iowa KFH 1300	Cape Gir'rd'u, Mo KFWB 950	- /	Pierre, S. D. KGGC 1420		Little Rock, Ark. KLS 1440	
Wichita, Kansas	Hollywood, Cal.	<u> </u>	San F'ncisco, Cal.		Oakland, Cal.	
KFI 640 Los Angeles, Cal.	KFWF 1200 St. Louis, Mo.		KGGF 1010 Coffeyville, Okla.		KLX 880 Oakland, Cal.	
KFIO 1120	KFWI 930	1	KGGM 1230	V	KLZ 560	V
Spokane, Wash. KFIU 1310	San F'ncisco, Cal. KFXD 1420	- V	Alb'q'rque, N.M KGHF 1320	V	Denver, Colo. KMA 930	V
Juneau, Alaska	Nampa, Idaho		Pueblo, Colo.	V	Shenandoah, Ia.	\underline{V}
KFIZ 1420 Fond du Lac, Wis	KFXF 920 Denver, Colo.	V	KGHI 1200 Little Rock, Ark.	V	KMAC 1370 San Antonio, Tex.	
KFJB 1200	KFXJ 1310		KGHL 950	*	KMBC 950	
Marshalltown, Ia.	GrandJunc., Colo.		Billings, Mont.		Kan. City, Mo.	
KFJF 1480 Oklahoma City	KFXM 1210 San Ber'd'no,Cal.	1. A.	KGIR 1360 Butte, Mont.	V	KMCS 1120 Inglewood, Cal.	
KFJI 1370	KFXR 1310	1/	KGIW 1420		KMED 1310	
Astoria, Ore. KFJM 1370	Oklahoma City KFXY 1420		Trinidad, Colo. KGIX 1420		Medford, Ore. KMJ 1210	
Grd. Forks, N.D.	Flagstaff, Ariz.		Las Vegas, Nev.		Fresno, Cal.	-
KFJR 1300 Portland, Ore.	KFYO 1420 Abilene, Texas	V	KGIZ 1500 Grant City, Mo.		KMLB 1200 Monroe, La.	
KFJY 1310	KFYR 550	./	KGJF 890	V	KMMJ 740	1/
Fort Dodge, Ia. KFJZ 1370	Bismarck, N.D. KGA 1470		Little Rock, Ark	<u>v</u>	Clay Ctr., Nebr. KMO 860	
Ft. Worth, Tex.	Spokane, Wash.	V	Tyler, Texas		Tacoma, Wash.	<u>x</u>
KFKA 880 Greeley, Colo.	KGAR 1370 Tucson, Ariz.	V	KGKL 1370 San Angelo, Tex.		KMOX 1090 St. Louis, Mo.	V
KFKU 1220	KGB 1330	./	KGKO 570	./	KMPC 710	./
Lawrence, Kans. KFKX 1020	KGBU 900		Wichita Flls., Tex KGKX 1420	<u>v</u>	Los Angeles, Cal. KMTR 570	-V
Chicago, Ill.	Ketchikan, Al'ka.		Sand Point, Ida.		Los Angeles, Cal.	V
KFLV 1410 Rockford, Ill.	KGBX 1310 St. Joseph, Mo.	V	KGKY 1500 Scottsbluff, Nebr.	V	KNX 1050 Los Angeles, Cal.	V
KFLX 1370	KGBZ 930	1	KGMB 1320	./	KOA 830	./
Galveston, Tex. KFMX 1250	York, Nebr. KGCA 1270	V	Honolulu, T. H. KGMP 1210	<u>v</u>	Denver, Colo. KOAC 550	V
KFMX 1250 N'thfield, Minn.	Decorah, Iowa	V	Elk City, Okla.		Corvallis, Ore.	
KFNF 890	KGCR 1210	V	KGNF 1430		KOB 1180 State Cell N.M.	V
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Lincoln, Nebr.	Mandan, N.D.		Dodge City, Kans.	V	Chickasha, Okla.	
KFOX 1250 Long Beach, Cal.	KGCX 1310 Wolf P't, Mont.	V	KGO 790 San F'ncisco, Cal.	V	KOH 1380 Reno, Nevada	V
KFPL 1310	KGDA 1370		KGRS 1410		KOIL 1260	1/
Dublin, Texas KFPM 1310	Mitchell, S. D. KGDE 1200		Amarillo, Texas KGU 940	1	Council Bluffs, Ia. KOIN 940	
Greenville, Tex.	Ferg's F'lls, Minn		Honolulu, Hawaii	V	Portland, Ore.	
KFPW 1340 Ft. Smith, Ark.	KGDM 1100 Stockton Cal		KGVO 1420 Missoula, Mont.		KOL 1270 Seattle, Wash.	V
KFPY 1340	KGDY 1200		KGW 620	./	KOMO 920	1
Spokane, Wash.	Huron, S. D.		Portland, Ore.	V	Seattle, Wash.	V_
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KONO 1370		KTM 780	1.21	WAAF 920	1	WBZ-A 990	1
San Antonio, Tex KOOS 1370		Los Angeles, Cal. KTNT 1170	-Y-	Chicago, Ill. WAAM 1250		Springfield, Mass.	V
Marshfield, Ore.	V	Muscatine, Iowa	V	Newark, N. J.	V_{\cdot}	WCAC 600 Storrs, Conn.	V
KORE 1420 Eugene, Ore.		KTRH 1120 Houston, Texas		WAAT 940	V	WCAD 1220	
KOY 1390	17	KTSA 1290		Jersey City, N. J. WAAW 660		Canton, N. Y. WCAE 1220	
Phoenix, Ariz.		San Antonio, Tex.		Omaha, Nebr.		Pittsburgh, Pa.	V
KPCB 650 Seattle, Wash.		KTSL 1310 Shreveport, La.		WABC 860	V	WCAH 1430	./
KPJM 1500		KTSM 1310	-1	New York City WABI 1200		Columbus, Ohio WCAJ 590	_ <u>_</u>
Prescott, Ariz. KPO 680		El Paso, Texas	V	Bangor, Maine		Lincoln, Nebr.	V
San F'ncisco, Cal.	V	KTW 1270 Seattle, Wash.	V	WABZ 1200 New Orleans, La.	\mathbf{V}	WCAL 1250 Northfield, Minn.	
KPOF 880	1	KUJ 1370		WACO 1240		WCAM 1280	. /
Denver, Colo. KPPC 1210		Walla Wal., Wash. KUOA 1390		Waco, Texas	<u></u>	Camden, N. J.	V
Pasadena, Cal.		Fayetteville, Ark.		WADC 1320 Akron, Ohio	\mathbf{V}	WCAO 600 Baltimore, Md.	V
KPQ 1500		KUSD 890	V	WAIU 640	1	WCAP 1280	
Wenatchee, Wash KPRC 920	/	Vermillion, S. D. KUT 1500	<u>v</u>	Columbus, Ohio WALR 1210		Asbury Pk., N. J.	_ <u>V_</u>
Houston, Texas	V	Austin, Texas		Zanesville, Ohio	\mathbf{V}	WCAT 1200 Rapid City, S. D.	
KQV 1380	1	KVI 760	V	WAPI 1140	V	WČAU 1170	.1
Pittsburgh, Pa. KQW 1010	_ <u>r</u>	Tacoma, Wash. KVL 1370		Birmingham, Ala. WASH 1270		Philadelphia, Pa. WCAX 1200	_ <u>V</u> _
San Jose, Cal.		Seattle, Wash.		Gr. Rapids, Mich.	V	WCAX 1200 Burlington, Vt.	V
KRE 1370 Berkeley, Cal.		KVOA 1260	V	WAWZ 1350	1/	WCAZ 1070	1
KREG 1500		Tucson, Arizona KVOO 1140		Zarephath, N. J. WBAA 1400		Carthage, Ill. WCBA 1440	_V,
Santa Ana, Cal.		Tulsa, Okla	V	Lafayette, Ind.	V_{-}	Allentown, Pa.	V
KRGV 1260 Harlingen, Texas	\vee	KVOS 1200 Bellingh'm, Wash.		WBAK 1430		WCBD 1080	1
KRLD 1040		KWCR 1310	1	Harrisburg, Pa. WBAL 760-1060	. /	Zion, Ill. WCBM 1370	-V
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KSAC 580	./	KWK 1350	1/	WBBL 1210		New York City WCFL 970	<u> </u>
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KSCJ 1330 Sioux City, Ia.	\vee	KWKC 1370 Kansas City, Mo.	V	WBBM 770 Chicago, Ill.	V	WCGU 1400 Brooklyn, N. Y.	1
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KSEI 900 Pocatello, Idaho		KWLC 1270 Decorah, Iowa		WBBZ 1200 Ponca City, Okla.	V	WCKY 1490 Covington, Ky.	1
KSL 1130	./	KWSC 1220	1	WBCM 1410	1/	WCLO 1200	
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KSO 1380	1/	KXA 570		WBEO 1310	1	WCMA 1400	1
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Sioux Falls, S.D.	V	KXL 1420 Portland, Ore.	V	WBGF 1370 Glens Falls, N.Y.		WCOA 1340 Pensacola, Fla.	V
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KTLC 1310	1	WAAB 1410		Needham, Mass. WBT 1080	1	Amarillo, Texas WDAH 1310	V
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WDSU 1250	WGBB 1210	1	WHOM 1450	V	WJKS 1360	V
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WEBC 1290	WGES 1360	V	WIBR 1420	V	WKAV 1310	V
Superior, Wis. WEBQ 1210	Chicago, Ill. WGH 1310	<u> </u>	Steubenville, O. WIBU 1210	Y.	Laconia, N. H. WKBB 1310	1
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Yankton, S. D. WNBF 1500		Atl'ntic City, N.J. WPOE 1370	<u>V-</u>	Chicago, Ill. WSBT 1230	<u>v</u>	Guad'l'jara, Mex.	
Bingh'mt'n, N.Y.	V	Patchogue, N. Y.	V,	South Bend, Ind.	\sim	XEB 1030 Mexico City	
WNBH 1310 New B'df'd, Mass.	V	WPOR 780 Norfolk, Va.	V	WSEN 1210 Columbus, Ohio	V	XEC 1333 Toluca, Mex.	
		WPSC 1230 State College, Pa.		WSFA 1410	V	XED 961	7
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THE CUBAN EXPERIMENTALS

Call	Owner	Address	Location	Kcys.	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	Julian Machado	Marti numero 49	Guanajay	14122	21.5	100
CM-10E	Osvaldo Escobar	Capitan Reyes 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	143.50) 20.9	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 CM-2IQ	Jorge L. Gonzalez	Monte numero 49	Habana	7300	41	7.5
CM-2JM	Jose Fernandez Justo Mahia	Real 89	Marianao	7257	41.2	7.5
CM-2JT	Jose A. Terry	Sitios numero 65	Habana	7150	41.9	5
CM-2KW	Carlos Alburquerque	Avenida de la Playa numero 5	Marianao	14280	21	7.5
CM-2MD	Marino Diaz Quinones	Goicuria numero 24 Pedro Varolo numero 120	Habana	7310	$\frac{41.5}{41}$	$\frac{5}{20}$
	R. V. Watters	Padre Varela numero 120 Avenida de Italia 29	Habana Habana	$7300 \\ 7170$	41.8	100
CM-2OC	Lorenzo Capo	Neptuno numero 176, altos	Habana	7300	41.8	7.5
CM-2PC	Marino Diaz Quinones	Yatch Mariana	Habana	7190	41.7	10
CM-2QY	Alberto Giro	21 entre C y D, Vedado	Habana	7310	41.5	15
CM-2ŘA	Rigoberto Alvarez	San Jose numero 216	Habana .	7152	41.9	7.5
CM-2RC	Radio Club de Cuba	Genios numero 23	Habana	7310	41.5	7.5
CM-2RO	Pablo A Rosado	Santa Rosa y Gral. Nunez	Marianao	7300	41	7.5
CM-2RZ	Nestor Rodriguez	Cardenas numero 55	Habana	7152	41.9	7.5
CM-2SC	Jose del Salto	General Suarez numero 126	Habana	14015	21.4	250
CM-2SF	Eusebio Solis	Juana Alonso num. 9, Luyano	Habana	7207	41.6	7.5
CM-28H	Silvio Hernandez	H numero 184, Vedado	Habana	7170	41.8	7.5
CM-2WA		Cristina numero 12	Habana	7170	41.8	7.5
	Pedro Madicdo	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 CM-2XD	Alexander Strang	M. F. de Castro s-n	Habana	7310	41.5	5
CM-2XD CM-2XK	Juan F. de Castro Raul Karman	3a. Avenida esquina a 4	Marianao	14015	21.4	250
CM-2YB	Francisco Vives	Rayo 67 Paseo de Marti numero 105	Habana Habana	$7150 \\ 7310$	$\frac{41.9}{41.5}$	$\frac{7.5}{5}$
CM-4AA	Morris Katzen	Yatch Kallisto	Habana	7150	41.9	7.5
CM-5AZ	Ernesto V. Figueroa	Independencia 130	Matanzas	7257	41.5	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	Escuela Normal	Tello Lamar 41	Matanzas	7257	41.2	7.5
CM-5FC	Felix U. Casas	E. Blanchet 19	Matanzas	7211	41.6	7.5
CM-5FL	Francisco Diaz	Santa Catalina 16	P. Betancourt	7170	41.8	7.5
CM-5IM	Felix U. Casas	Tello Lamar 60	Matanzas	7257	41.2	7.5
CM-5NI	Julio C. Oyarzabal Jose R. Ponte	Marti numero 24	Jovellanos	7300	41	7.5
CM-5RV		San Vicente numero 28	Matanzas	7150	41.9	7.5
CM-5RY	Bernabe R. de la Torre	General Betancourt numero 105	Matanzas	14280	21	7.5
CM-6DW	Eduardo Terry	San Carlos 197	Cienfuegos	7300	41	10
CM-6GT	Juan Pablo Ros	Independencia 150	Cienfuegos	1579	41.2	5
CM-6SG CM-6SZ	Remberto Sanchez	Candelaria numero 16	Santa Clara	7310	41.5	7.5
	Homero Sanchez	Independencia numero 9 Control Elorido	Santo Domingo	7300	41	15 15
CM-7CX CM-7DW	Leonard B. Fox	Central Florida Central Tacajo	Florida Tacajo	$7310 \\ 7211$	41.5 41.6	10 .
CM-7JQ	M. L. de Quintana Leonard B. Fox	Central Florida	Florida	14280	21	7.5
CM-70L	Arsenio Valdes	Ave. General Machado	Ciego de Avila	7130	42.8	20
CM-7SH	Domingo Caymares	Augusto Arango 31	Nuevitas	7257	41.2	15
CM-8BY	Alberto Ravelo	Ave. entre 1 y 3 V. A.	Santiago de Cuba	7300	41.2	30
CM-8CW	Edmundo Recamier	Reloj Alta numero 2	Santiago de Cuba	7300	41	20
CM-8CX	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
CM-8MN	Melchor Aguero	Estrada Palma, Alta 1	Santiago de Cuba	7140	42.8	50
CM-80L	Luis C. Greeo	San Bartolome 32	Santiago de Cuba	7300	41	50
CM-8UF	Earle D. Byer	Estacion Naval	Guantanamo	7300	41	50
CM-8YB	B. V. Greer	Estacion Naval	Guantanamo	7300	41	100

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.

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. "Will you please explain to me why Not even merit seems to be recognized

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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.

Time Station Dials Feature DAILY		Time Station Dials Feature WEDNESDAY	
	-		
SUNDAY		THURSDAY	
MONDAY		FRIDAY	
30 WEAF	ea imeri		
	ESDAY	SATURDA Y	
	BSDAY	SATURDAY	
	ESDAY	SATURDAY	
	BSDAY	SATURDAY	
	BSDAY	SATURDAY	
	ESDAY	SATURDAY	
		SATURDAY	
		SATURDAY	

HOW TO TUNE A SET CORRECTLY **Read This Page Carefully and You Can Set Your Dials Accurately for Any Station in America**

LL stations in America are listed in RADEX A 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

supplementary.

Let us assume you have just boug RADEX. bought your first EX. Proceed as follows:

Tune in some station--any 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. In. 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 Commission. We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

630 kilocycles 475.9 meters 900 Victoria, B. C. 800 Vorkion, Sask, 509 Ninstin, N. B. 250 Mazaitan, Mc. 500 Columbia, Mo. 500 Columbia, Mo. 500 Evanellie, Ind. 250 Washington, D. C. 600 Jefferson City, Ma. CFCT CJGX CNRA CYR EFRU WGRF WMAL WOS 640 kilocycles 468.5 meters WAIU 5005 Los Angeles, Calif. 5000 Columbus, Ohio 650 kilocycles 461.3 meters 5000 Nachville, Teun. 660 kilocycles 454.3 meter WAAW 500 Omsha, Nebr. 50090 Naw York City 670 kilocycles 447.5 meters WMAQ Sooo Chicago. III. 680 kilocycles 440.9 meters RPO 5000 San Francisco, Cal. WPTF 5000 Baleigh. N. C.

590 kilocycles 508.2 meters

600 kilocycles 499.7 meters

610 kilocycles 491.5 meters

620 kilocycles 483.6 meters

1.238 Inequals Falls. Ont.
238 Inequals Falls. Ont.
239 Energian Press. Call.
250 San Press. Call.
250 Barlon. Wis.
250 Lawrenceburg. Tenn.
250 Hertlerd. Conn.

San Prancisco, Calif. Kansta City, Mo. Philedelphia, Pa. Philedelphia, Pa. Kausas City, Mo.

Phoenis, Aria. Portland, Ora. Tampa, Fia. Orlando, Fia. Dover. Foscroft. Ma. Milwaukze. Wis.

Spokane, Wash, Lincoln, Nebr. Boston, Mass. Omahs, Nebr. Bertlen Springs, Mich

1000 500 1000

CFCH EFBU WCAO WEBW WOAN WRFC WTIC

KFRC WDAF WFAN WIP WOQ

EFAD KGW WDAB WDBO WLBZ WTMJ

In the blanks for dial numbers opposite 660 kilocycles (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 kcys. 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 that the dial numbers for 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.

Now we tune in some other station, proceeding

INDEX BY FREQUENCIES AND DIAL NUMBERS 74 761 Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. Woodmen of The World Emmanuel Missionary Collega Abilibi Power & Paper Co. Bishop N. S. Thomas Alfan Radio Carp. Monumental Radio Co., Iac. Beloin College Vaughan School of Music WREC, Inc. Traveler/ Iosurance Co. 74 72 Don Lee, Inc. Babase City Star Co. Registone Brost for Co., Inc. Cimpbel Brost, Inc. Unity School of Christianity 73 171 Electrical Equipment Co. Oregonian Publishing Co. Tampa Publishing Co. Rollins College, Inc. Thompson L. Guernasy Milwaukee Journas 72 170 1 Victoria Broalcasting Ass'o Winnipeg Grain Exchange Ganadian National Railware Gastula Liemas Stephens College Frankeling Oriege Brankeling Boreau T Earle C. Anthony, Inc. American Insurance Union 70 68 1 National Life & Accident Ins. Co. 69 67 1 Omsha Grain Erchande National Broadcasting Co., Inc. 68 66 ago Dally News, Inc. 67 65 Hale Bros. & The Chronicle Burham Life Insurance Co.

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 watts 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 interfere. not should 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 identification as 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 pro-viding 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 Frequen-cies 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 I thought I knew so much about Radio that I really didn't know the first thing. I thought Radio was a plaything - that was all I could see in it for m.e.

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 Ywould 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 dabbling 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, fast-growing industry Radio had 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 "You're kidding me," I said. "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 inexpen-sively 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 obliga-tion — 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	

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