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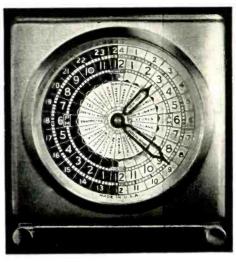


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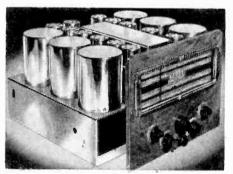
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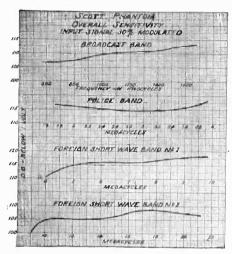
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FIFTEENTH YEAR

B. FRANCIS DASHIELL

Technical

NUMBER 122

PAGE TAYLOR
Editor

Associate Editors
CARLETON LORD
Broadcast

RAY LAROCQUE Shortwave

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See subscription blank on page 96. Published monthly except July and August by

THE RADEX PUBLISHING CO.

289 Queen Anne Road

Teaneck, New Jersey

Subscriptions in the United States and Possessions and in Canada, \$1.75 per year; all other countries, \$2.25 per year. Single copies, 25 cents. Entered as second-class matter Aug. 30, 1938, at the Post Office at Teaneck, N. J., under the Act of March 3, 1879; additional entry as second-class matter at Passaic, N. J. All manuscripts submitted are at the authors' risk, and will not be returned unless accompanied by sufficient postage. Copyright, 1938, by the Radex Publishing Co., 289 Queen Anne Teaneck, N. J.

Radio CLEAN-UP Time

S the shadows of the early Sep-A tember evening deepened over Main Street, Turner Dial, leaning in the doorway of the "Higrade Radio Sales and Service Shop," breathed deeply of the refreshing air, and realized that fall had come. Then, too, he knew, the clear cold weather of winter could not be far behind, and radio again would become a lively business. He was glad, for things had been dull. But these delightful nights were bringing more and more people down town to stroll, window-gaze and to buy. Perhaps, after the dinner hour, new cuscomers as well as some of the faithful would drop in to shop and talk radio. Restlessly, the well-known and friendly owner of "Higrade" turned, moved toward the rear of the store.

"Bill", he called to his assistant. "Let's tune in on the 'Evening Serenade'. Guess we can hear most of it before the customers begin to 'rush' us off our feet!"

"Right!" Bill Wood replied. He was a young man who had worked with Turner Dial for a couple of years. "First thing we know everybody will rush in and want their sets fixed up for winter. Summer slumps wouldn't be bad at all if folks didn't wait 'till the last minute."

Turner Dial gazed thoughtfully at the floor. "Say", he remarked "That's an idea! Let's pass out some circulars around town. Make it a special. Complete overhaul job and tune-up; just like they do over at the garage."

"Swell", answered Bill, as he turned down the volume of the blaring radio.



"If you get the copy ready I can chase it over to the Elite Printers before they close." Dial moved toward his desk with its orderly row of servicing manuals and trade bulletins just as two customers entered the front of the store.

"You take 'em, Bill," said Turner.
"I'll get goin' on the handbills."

But the "customers" turned out to be just two faithful members of the DX clan around town. "Hi there!" they greeted the proprietor and his helper. "What's new?"

"Nothing," replied Bill. "The Boss is busy. Getting out a new circular. Doing any D-Xing these days?"

"Sure. Picked up Leon, Nicaragua, on 20 meters, the other night," answered one. "Had three feet of inside wire for antenna. Think I'll write for his QSL card." The second young man, like a true radio fan, was hanging over the show cases and examining the parts and replacement units which Turner had put on display.

"Say," Dial called invitingly, "come back and see what you fellows think of our idea." He held out the copy he had penciled on a sheet of paper.

"Looks good!" all three chorused in unison, as they perched along the work bench. "But," asked one, "how can you do such a job at that low figure?"

Turner Dial, of Higrade Sales and Service, leaned back in his creaky swivel chair and ran his hand through his hair. "Well, you know I've been in this game a long time," he said. "We get so we know just what to expect when working on a set. price, then, is an average. On some sets we lose money, but on most we show a fair profit." Turner hitched around in his chair and waved a hand towards the shelf of neatly catalogued books. "Those are a big help, yet all circuits are practically the same. But they do help my helper most of the time!" he added, with a dry smile toward Bill Wood, who shuffled his fect a bit in his discomfture.

"So, with these publications and modern equipment and tools, we can service any set quickly and inexpensively. And," Turner continued, "overhauling and tuning up a set seldom requires the replacement of parts, so our charge covers only the labor. If the time consumed is considerable, because of inexperience or lack of proper equipment, you can see why some people have to pay unreasonable bills. Then they get pretty sore, and I must say I can't blame 'em."

Turner Dial was not bragging. His customers never questioned a bill, for he was well-known as an honest and fair radio dealer and expert. Since the beginning of radio broadcasting, Dial has been selling and servicing the town's receivers.

Bill reached out and took the copy from Turner's hand. "Will 5,000 be

plenty?" he asked. Dial nodded assent. Wood ran across the street to the printer, and on his return he was pleased to see a number of people standing before the store windows. He and Turner had spent a warm afternoon decorating them. To one side of the store entrance was shown an oldfashioned parlor. The figure of a man and woman were seated at a table, and they were listening to an old 1922 model battery set which Turner had dug out of the "museum" in the basement. Earphones were clamped over their heads. "Earbenders!" thought Bill Wood with a grin. The opposite window showed a modernistic living room and a 1939 model all-wave receiver equipped with the astounding new built-in antenna system. A little girl was tuning in a station simply by touching a button. Bill joined the crowd and admired his handiwork. But radio was getting so complicated—a man had to be good to understand all about these new sets and the dozens of tube types, as well as touch tuning. And there was television yet to come! Bill grimaced to himself in a brief fit of despair, and re-entered the store.

Back in the shop Turner Dial and the two fans were still discussing the pre-winter tune-up and clean-up program. "What do you intend to do to a set when it comes to you?" asked one of the customers.

"I think that when we get a call," answered Turner, "we ought to look over the antenna and operating location of the set. Don't you think so, Bill"" Wood nodded, as he joined the others on the work bench. "Then, here in the shop," continued Turner, "we will play the set and test it for defects.

On the bench, the chassis will come cut. The tubes will be cleaned and the prongs scraped bright, and any defective tube will be replaced with a new, guaranteed one. You know, most tubes are given a very good guarantee these days."

One of the listeners interrupted: "How about that tube? You'll have to charge extra, and that's when the customer squawks. He'll say its a racket!"

"I know," declared Turner, somewhat impatiently. "Lots of people think that as long as a tube lights and the set works fairly well its all right. Maybe it is, except on DX reception. They don't get sore around here, but I know places where they do. Sure, the tube racket is worked here and there. but that never happens at a reliable service agency." Turner took a deep breath, and continued: "Lots of the things that go wrong in a radio are hard to explain to the average customer. He has to put his faith in our word just as does in his doctor's. There aren't many crooks in the radio business, but when one does turn up he doesn't last long. Certainly he can't get factory authorization or join the service associations."

"Evening, boys!" said a voice from behind. Turner Dial, Bill Wood, and the "customers" swung around to see an elderly gentleman standing and smiling toward Turner.

"Judge Stevens!" exclaimed Turner as he rose to his feet. "How are you, and tell me about that good ole superten radio?" The newcomer was Judge Stevens, one of the shop's oldest customers. Last year he had been won over to all-wave radio, and now was

the proud owner of a receiver that regularly pulled in many foreign stations.

"Dial," asked the Judge, "why is it that some autos make so much noise in my radio when they pass by, while many others are never heard? You know I live on a pretty busy corner. Those short waves pick up a bit of auto static in spite of that fine doublet aerial you erected for me."

"Well, Judge, you see, its this way," began Turner, as he motioned his distinguished listener to the chair at the desk. "When a car has a radio installed in it, certain things must be done to supress spark static, or otherwise reception would be unbearable. New cars, most of them, do not cause this interference. But let an old timer, and 'specially some truck, come chugging by, and you can hear every cylinder when it fires—and tell when it misses, too."

"Thanks," said the Judge. "But what can I do about it?"

"Nothing," replied Turner. "Your antenna will help a lot, but none is perfect. Of course, if one of those car owners should come up before you in court—" he added, with a grin.

"By the way," remarked the Judge. "May I have one of those pipe cleaners? Mine seems clogged. Never mind, just sell me the whole package."

"Help yourself, Judge Stevens," answered Dial. "They're not for sale. We use 'em for cleaning dirty radios."

"Clean dirty radios?" asked Judge Stevens incredulously.

"Yes, sir. Funny thing, we were just discussing our new cleaning campaign when you came in. You see, when we take the radio chassis out of the

cabinet we find that pipe cleaners are fine for getting the dust out between the plates of the tuning condensers." Turner Dial picked up a cleaner and turned toward a dismantled set lying on the bench.

"How interesting!" murmured the Judge. "Proceed with the case!"

"After a set has been in use a year or so", said Dial, "it collects lots of dirst and dust. Look at this!" And he passed the cleaner between two con-

"Better not let Mrs. Stevens hear you say anything like that about our radio," remarked the Judge.

"Its true, nevertheless," continued Turner. "It's a natural thing. The cabinet is open at the back—it has to be for tone and air circulation. The heat, too, causes greasy dirt and dust to adhere in a thick layer. It absorbs lots of energy from weak signals. So the thing to do it to clean up the set. It'll look and act like new!"

"And we blow most of the dirt off with compressed air," Bill Wood hastily uttered with an air of helpful importance. "Then," he continued, "we rub and polish every part, examine the bearings and tuning units. A little carbon tetrachloride and a fine brush works wonders. The most important job is alignment, balancing and adjusting, so the set will tune correctly at all points on the dial. The Boss, here, always does that work himself."

A couple of customers had strolled in the front door and were casting admiring glances at the row of attractive 1939 radio cabinets placed along one side of the store. Turner began slowly to move away from his friends. "Bill is right," he said. "I like to check the alignment myself. An overhauled set should go back to the customer like a new receiver."

"Glad to hear that," commented Judge Stevens, as he rose from the chair. "Young man," he said glaring at Bill, "suppose that sometime tomorrow you pick up my set and give it one of your fall cleaning and overhauling jobs. But, mind you, it better come back like new!"



Martin J. Olthoff, well known shortwave DXer of Independence, Kans., is shown here in his radio "den." busy reading his copy of RADEX. His receiver is an RME69. A few of his card veries are shown on the wall.

A NEW MEXICAN

Writing from Mexico City, Samuel A. Meyer, Jr. of Rochester, N. Y., sends news about the newest Mexican station, XEQ, temporarily assigned 710 kcs. and 50 kw. of power. The transmitter is situated at Ixtapalapa, D. F., and the temporary studio address is Pasaje Teatro Alameda, Av. Juarez 34, Mexico City. On the air during the first week in October. Attractive veries will be sent for correct reports and return postage.



FOR countless radio enthusiasts, the reception of a foreign station on the broadcast band constitutes a major thrill. For them, there is a sense of achievement comparable to that of the golfer who shoots a hole in one, the ball player who hits a homer with the bases loaded, or the tennist who wins a major tournament.

Contrary to the beliefs of many casual listeners who have had regular rations of Berlin and London via short waves, trans-oceanic reception on the medium waves is usually an accomplishment accompanied by pardonable pride. Unlike the high frequency stentors that pound in the year around, the foreign BCB stations provide elusive targets which tax the skill and patience of even the veteran DXers.

Eliminating the fortunate few who sometimes complain that signals from across the seas interfere with locals, most of us find reception of transoceanic stations sufficiently rare to make the occasion very much worth our while. The average foreign catch is the result of careful planning, skillful tuning and a measure of old-fashioned good luck, and is therefore more than welcome when it trickles down our lead-in.

While foreign reception is relatively difficult, there are few listeners who do not have a few potential TA's, TP's or SA's playing on their aerials during the course of a winter season. The big question, then, is how to reach out and pull them through our receivers.

It goes without saying, of course, that highly efficient equipment is a primary requisite for foreign reception. This does not necessarily mean that the listener must possess a fifteen or twenty tube receiver. The average set of eight, ten or twelve tubes can do wonders if it is properly aligned, if its tubes are in good condition and if it is fed by a good aerial. Oldtimers will add the tip that really extraordinary results may be obtained if the receiver is "hopped up" to increase stability and introduce some regenerative action. A good serviceman can advise the DXer if this would be practical with his particular model; and, if so, do the job for a nominal charge.

Of course, if the best possible results are expected and the expense is of no moment, the modern, highly sensitive and selective laboratory-built receivers offer the best possibilities for real DX reception. It goes without

saying that commercial receivers, produced in large quantities, cannot hope to attain the high efficiency achieved by custom builders who assemble their sets one at a time under rigid standards of design, construction and individual inspection.

No matter what receiver is used, no DXer can hope for maximum results if he fails to provide for headphone reception. Although many listeners like to brag about distant catches heard at "full loudspeaker volume," the value of headphones for DX work cannot be over-estimated. Even though there might be no chance of disturbing other members of the family, many weak signals are completely lost in a speaker when they could have been logged with a good pair of phones.

How to Hear Them

Even when DXers have gone to extremes to provide maximum efficiency of receiver and antenna installation, and have spent hours and dollars in getting rid of as much local noise as possible, there still come letters asking "How can I hear those foreign stations?"

Judging from some letters, a lot of listeners seem to think that the foreigners stand out at regular intervals ail along the broadcast spectrum, just waiting to be heard. Perhaps they do in some locations, but for most of us they aren't quite as easy as that—which may be the reason why the questioners haven't heard them.

Actually, a signal from a foreign station is most insignificant and unobtrusive after it has travelled a few thousand miles. Unlike the famous alarm clock, it always speaks in a whisper and never shouts if you don't hear it the first time. In fact, if you don't happen to catch it at the first whispering stage, it has the irritating habit of fading into nothingness for an indeterminable period.

Occasionally you run into one of those "like-a-ton-of-bricks" signals, but as a rule the DXer has to fight quite a battle before he gets any kind of a report. He has to be the personification of patience and perseverance. He must know how to tune, where to tune and when to tune. He must become skilled in waiting out weak signals, and he must have a pair of ears trained to make intelligible the merest whisper.

The Art of Tuning

The art of tuning a receiver for real DX is one which can only be acquired after considerable experience. Some listeners may question this, but it is quite possible for an ordinary radio fan to sit down at a receiver and obtain only mediocre results, whereas an experienced DXer, working with the same receiver and in the same location, might produce really astonishing results.

Undoubtedly the best method of tuning, and certainly the one to be recommended to the beginner, can best be described as "spot tuning." Here the DXer makes out a list of five or six powerful stations which he wants to hear. Considering the season of the year and the time of day, he picks broadcasters which are known to be on the air and which should be heard in his location.

He dials the frequency of the first station and listens. If a signal is heard, well and good. He may have the station he wants, or it may be a domestic broadcaster. At any rate, he waits for the announcement. More often than not, his first attempt finds a great silence on the selected channel. If so, he should stick around for a few minutes on the chance that the desired station may have faded out. If no signal is heard after a reasonable wait, he goes on to the second station.

Here again patience is a cardinal virtue. There may be no signal at all or he may find a jumble of several stations. In either case, he should wait until the jumble clears or the desired station has a chance to fade in.

And so on down the list of five or six stations. One or two may be heard at the first attempt. If not, the skilled DXer will return time and again to the selected frequencies. Perseverance is one quality which all DXers must possess, and the listener who is incapable of sticking on certain channels for long periods might as well give up hope of hearing foreign stations.

After the frequencies of the original five or six stations have been tried several times, another group may be selected and the same procedure followed. Occasionally freakish conditions find medium-power stations showing to better advantage than the higher powered transmitters, so the success or failure attending the first group may have little bearing on another group.

But regardless of the results at first, the whole process of dialing foreign stations should be systematic—tuning for definite stations at specified hours of the day. In a great majority of cases, this procedure will show the best returns for the time spent at the dials.



Printed in red and blue, this card from LS2, "Radio Prieto," Buenos Aires, Argentina, is very attractive. LS2 is heard on 1190 kcs.

When the orderly "spot tuning" has brought results, the DXer may try some "fishing." Running up and down the broadcast band, he may stop at audible carriers and see what is there. This type of tuning, however, is bound to miss a large percentage of weak signals—particularly those which may have faded out for the moment—and should be used only when going after something out of the ordinary.

Should the combined processes of 'spot tuning' and "fishing' produce no results the first night, the listener should merely resolve to try again. Several nights, or even several weeks, may pass before the first foreign station is heard. Sometimes DXers go through an entire season without hearing more than half a dozen different trans-oceanic catches. Even after five or six years, a veteran dial twister may be able to boast of but a dozen TA's, a like number of TP's and four or five SA's.

Consequently, the real test of a DXer's ability is his willingness to persevere under even the most discouraging circumstances.

The Art of Hearing

The important show-down for every listener comes when he actually is tuned to a foreign station. Too little stress has been placed on the "art of hearing a station" and it is here that many listeners fail when success is within reach.

With few exceptions, the average foreign signal at best is only a faint whisper compared with the usual DX catch on one's own continent. Since it must be highly amplified to bring it up to the point where it will be audible, static and local noises are correspondingly increased in volume. The spill-over from stations on adjoining channels is also increased as the power is advanced. As a result, the general interference is usually very high and it takes an experienced ear to separate signal from racket.

The average listener might tune in on what, to him, would be an incomprehensible jumble. Static, local noises, heterodynes and a station or two might be scrambled into a veritable babel. Somewhere in the background, he probably would hear a faint strain of music or speech, but nothing intelligible. Ask him to write out a report on the submerged station, and he would throw up his hands in despair.

Yet the experienced DXer would be able to salvage a fairly decent report from the jumble. His ear would snatch phrases of announcements and identify musical numbers. He might be obliged to spend an hour or more on the one station, but he would be able to get enough material for a verification—and that was his primary purpose.

It is quite impossible to give speci-

fic directions on how to listen when a station once is tuned, as this is an art which can only be developed by actual experience. Perhaps the best method is for the DXer to spend hours listening to the weakest signals on the broadcast spectrum. By concentrating on the toughest stations within range, he will gradually acquire the knack of deciphering the worst jumbles.

He may find that certain adjustments on his receiver will assist in making out announcements. If interference is high pitched, it is likely that turning the tone control to the bass position will cut off some of the racket. Slight de-tuning from exact resonance will cut out some low-pitched noise. Some almost hopeless cases have been cleared up by using the beat frequency oscillator and zero-beating the set. Other methods, peculiar to each individual receiver, can be worked out by the DXer himself

As times goes on, the DXer will have less trouble making out announcements and will be able to understand speech which would be quite unintelligible to the average listener. When he has developed the arts of hearing and tuning to their fullest extent, and has learned when and where to tune, he will be able to enjoy maximum results for his particular receiver and location. And the chances are that never again will he ask "How can I hear a foreign station?"

Vagaries of Reception

When tuning for foreign stations, listeners will run up against many vagaries of reception. Medium wave signals travelling long distances are temperamental creatures. Sometimes

their behavior is easily understood and on other occasions explanations have not passed the theory stage, but always their antics must be considered by the DXer.

Most listeners are aware that the signals travel real distances only when darkness covers the path from station to listener. Also, cool weather is a prime necessity. Hence, winter nights always find DXers on the prowl for new catches.

However, while the dead of winter is supposed to be ideal for reception the Northern between points in Hemisphere, signals from America and the Antipodes are not well received. The reason, of course, is that there is summer in the Southern Hemisphere during December and Consequently, January. from those parts is best in October, November, March and April—since relatively cool weather exists at the points of transmission and reception.

As yet there has been no accepted explanation for one vagary of reception which directly affects foreign reception by American listeners. This concerns the relative abilities of a signal to travel in different directions.

Take, for example, a clear, cool December morning. The time is one-Static is light and reception thirty. conditions appear to be ideal. A listener along the North Atlantic Seaboard tunes in a European station The time is some 3500 miles away. right, as darkness covers the complete path of the signal, which is almost The station has entirely over water. a powerful transmitter-such as the 120 kilowatts of Rennes. There is no interference from other stations. set-up should be ideal-yet the signal shows relatively poor strength, no better than an R4 at best, and fades badly.

A half hour later, the same listener tunes in the 50-KW LR1 at Buenos Aires, some 5000 miles away. It is summer down there, so reception conditions are not as good as they might be. LR1 has less than half the power of the European and is half again as far away, yet it shows a strong R6-7 signal which fades very little.

At two o'clock, the DXer tunes in one of the Pacific Coast 50-kilowatters—KFI, KPO or KNX—about 2500 miles away. General conditions are still ideal, yet the signal will be little better than that of LR1 which is twice as far away.

Freaks such as this example were of sufficient interest to the Bureau of Standards to lead to a series of international tests during the past few years. Observations were much the same as those recorded here, yet explanations to date have been only theoretical.

But regardless of the reasons for the queer reception, DXers must consider every factor when tuning for foreign stations. Observations seem to indicate that signals travelling West from Europe do not carry as well as the power of the transmitters and the relatively short distance would indicate. They can be received fairly well on the Atlantic Seaboard, particularly in the New England States and the Maritime Provinces. As they go farther West, they lose strength rapid-Reception in the Middle West is erratic, and the carrier is completely fagged out by the time it reaches the West Coast, where only a few reports are made.

Although it does not concern us, it is interesting to note that European listeners do not experience the same difficulty in receiving American stations. Much the same is true of DXers in Australia and New Zealand, who have better luck with our broadcasters than we do with theirs.

Reception of trans-Pacific stations offers another oddity. West Coast DXers have little difficulty in dialing Japanese transmitters, many of which even interfere with domestic programs. Yet listeners in the Middle West have infrequent success, and Eastern DXers seldom report a Japanese.

Those South Americans

Perhaps the most fertile field of foreign stations for listeners in this country is South America. Considering the distance and the relatively low power of the average station, observations show that signals from this continent cover the entire United States with really excellent strength.

In the writer's opinion, Latin American stations offer the best possible opportunities for real DXing. Although it is known that they have little difficulty in reaching this country, they are not easy to hear. In fact, they provide a real test of DX skill and the listener with a large log of SA's has good reason to be proud of his record.

In general, listeners find reception of SA's best during October, November, February and March. While this merely confirms the general theory regarding transmission between the Northern and Southern Hemispheres, the mid-winter months also provide their share of catches.

Most frequently heard are stations in Argentina and Brazil, with the nearer countries of Colombia and Venezuela running a good second. Time in the former two countries runs an hour ahead of Eastern Standard, except during our mid-winter months when their summer time puts them two hours ahead. The Colombian Republic observes Eastern Standard Time, and Venezuela is one-half hour faster than EST.

With this in mind, DXers usually can start dialing for SA's at sundown. For the next couple of hours, reception should be at a peak. Between seven and eight o'clock, EST, the signals of domestic stations begin to pick up strength and then there is the problem of interference to consider. Schedules show that most SA's sign off between 11 p. m. and midnight, their time, which means that reception in the United States will probably end by 11 p. m., EST, in the spring and fall, 10 p. m. in the winter.

Late test programs, unless arranged by the Bureau of Standards or one of the radio clubs, are few and far between, with the result that a DXer need not be a night owl to dial for South Americans. Exceptions have been noted on Christmas and New Year's mornings, when early masses and dance programs have been heard from numerous stations.

A complete list of South American stations is given in another section of this issue, while following is a short listing of the more powerful stations including a few Central Americans which are worth watching:

570 CB57 5000 Santiago, Chile 590 LS10 6000 Buenos Aires, Arg. 600 PRH2 25000 Porto Alegre, Brazil

610 CX4 1000 Montevideo, Uruguay 625 TIPG 2000 San Jose, Costa Rica 630 LS3 5000 Buenos Aires, Arg. 670 LS4 7000 Buenos Aires, Arg. PRC5 2000 Belen, Brazil 680 HIN 1000 Bogota, Colombia PRC2 5000 Porto Alegre, Brazil 710 LS1 5000 Buenos Aires, Arg. 720 PRA8 25000 Pernambuco, Brazil 740 PRA4 10000 San Salvador, Brazil 10000 Buenos Aires Arg. 760 CB76 10000 Valparaiso, Chile PRA6 10000 Sao Paulo, Brazil 780 LT1 5000 Rosario, Arg. 790 LR10 10250 Buenos Aires, Arg. 830 LR5 29000 Buenos Aires, Arg. 840 PRH9 5000 Sao Paulo, Brazil 850 OAX4A 10000 Lima, Peru 860 PRA3 2500 Rio de Janeiro, Brazil 26000 Buenos Aires, Arg. 880 PR13 22000 Bello Horizonte, B'l 882 YV5RQ Caracas, Venezuela 900 PRB7 5000 Rio de Janeiro, Brazil 910 LR2 12000 Buenos Aires, Arg. 940 PRF4 10000 Rio de Janeiro, Brazil 950 LR3 31000 Buenos Aires, Arg. 960 PRF3 5000 Sao Paulo, Brazil 960 YV5RA 5000 Caracas, Venezuela 980 PRE8 20000 Rio de Janeiro, Brazil YV1RB 1000 San Cristobal, Venez. 990 LR4 16000 Buenos Aires, Arg. 1000 HJ3ABH 2000 Bogota, Colombia PRB9 10000 Sao Paulo, Brazil 1005 YV5RG Caracas, Venez. 5000 Buenos Aires, Arg. 1030 LR9 1040 CP4 10000 La Paz, Bolivia PRG2 10000 Sao Paulo, Brazil 1060 CB106 5000 Santiago, Chile PRD2 5000 Rio de Janeiro, Brazil 1070 LR1 50000 Buenos Aires, Arg. 1080 LT3 4500 Rosario, Arg. 10000 Joao Pessoa, Brazil 1100 PRG9 20000 Sao Paulo, Brazil 1110 LS5 5000 Buenos Aires, Arg. 5000 San Juan, Arg. 1120 LV5 PRH8 5000 Rio de Janeiro, Brazil YV1RF 1000 Maracaibo, Venez. 7000 Buenos Aires, Arg. 1150 LR8 1160 PRH3 5000 Sao Paulo, Brazil 1190 LS2 30000 Buenos Aires, Arg. 1220 PRA9 25000 Rio de Janeiro, Brazil 15000 Buenos Aires, Arg. 1230 LS8 1260 PRA5 5000 Sao Paulo, Brazil 1270 LS9 6000 Buenos Aires, Arg. 1280 PRG3 25000 Rio de Janeiro, Brazil 1310 LS11 10000 La Plata, Arg.

 1340
 PRE4
 5000
 Sao
 Paulo,
 Brazil

 1350
 LS6
 6000
 Buenos
 Aires,
 Arg.

 1360
 PRCS
 5000
 Rio de Janeiro,
 Brazil

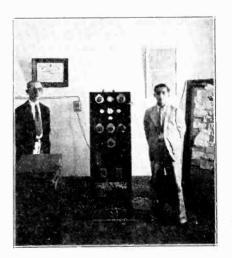
 1400
 PRD5
 5000
 Rio de Janeiro,
 Brazil

 1430
 PRE2
 5000
 Rio de Janeiro,
 Brazil

 1440
 LS7
 10000
 Buenos
 Aires,
 Arg.

 1500
 CB150
 10000
 Santiago,
 Chile

From this list, DXers will be able to select a few of the most powerful stations for their initial try. As soon as night has fallen, they might turn to 1190 for the 30-KW LS2 in Buenos Aires. Along the Atlantic Seaboard, WOAI isn't heard on that channel until at least an hour after dark, and the chances are excellent that LS2 may be logged. Listeners at distance from Cleveland should have no difficulty in hearing the 50-KW LR1 on 1070 between nightfall and the time WTAM begins to come through. Many DXers report



The transmission equipment of station HJIABK, "The Voice of the Country," at Barranquilla, Colombia. Working on 1310 kts., this 250 watt station has been heard in the United States. The owner, Mario Luis Hernandez, is shown on the left.

that the 7000-watt LS4 on 670 is a c:nch before WMAQ settles down for the night. LR5 on 830 is often heard between the sign-off of WRUF and the time KOA starts to push through. Other powerful stations may be tried in the same manner.

Later on in the evening, there is still ample opportunity for hearing many Central and South Americans. The regional channels frequently offer good catches. An example would be the 25-KW PRA9 on 1220. In many sections of the country, domestic stations are just a jumble and many evenings find powerful signals from the South overriding all local broadcasters. Although many SA's keep right on their assigned frequencies, there are a few which may wander 5 kcs. off and this provides many opportunities for split-frequency tuning.

Early evening reception of the South Americans affords DXers a rare chance to try directional and loop aerials. Too few listeners have taken advantage of this means of overcoming interference from more than one station on a channel. A classic example is afforded by one Toledo DXer who used a loop to bring in LR1 when WTAM on the same frequency was only a hundred miles away.

Sometimes DXers wish that the SA's would borrow from American stations the habit of signing on early in the morning. If they would commence their day of broadcasting at six or seven in the morning, there would be practically nothing to stop them from being heard.

The earliest sign-on among the Argentines is that of LR2, the 12-KW station on 910 kcs., which starts its day at 7:30 a. m., Buenos Aires Time.

That would be 6:30 a. m., EST, during the fall and spring, and 5:30 in mid-winter. Signing on at 8 a. m., B. A. time, are LT1 on 780 kcs., LR5 on 830, LR3 on 950, LR1 on 1070, LS5 on 1110, LS8 on 1230 and LU7 on 1240. At 8:30, B. A. time, we might hear LS10 on 590, LR6 on 870 and LU2 on 900. Other Argentines sign on much later.

All in all, the SA's offer DXers a fine opportunity to build up an impressive log of foreign stations. They are hard to hear, it is true, but they can be logged if the listener has the patience and perseverance to stick with them. DXers who have concentrated on the SA's, find great sport in logging them, and can well be proud of each and every catch.

The Antipodes

Also arriving in October will be the first signals of the season from Australia and New Zealand. Being in the Southern Hemisphere, they are heard during the same seasons as the SA's—namely, October, November, February and March. On the West Coast they are heard during the midwinter months as well.

Located on the opposite side of the world, they represent the greatest possible distance which can be heard by American DXers, and as such they are highly prized by listeners. Because of the extreme distance and the relatively low power with which they operate, their signals are probably the weakest of all foreign stations regularly heard in this country.

To offset this handicap, the Aussies and Zedders are heard at hours when channels are clear and interference is it a minimum. The New Zealand stations ordinarily begin to come

through just after nightfall down there, which would be 8:30 p. m. their time and 4 a. m. in Eastern Standard Time. It is then but 7 p. m. in Eastern Australia, so the Aussies don't come through until a little later. From then until daylight over here, their signals increase in strength.

On a morning when reception conditions are favorable, it is a relatively easy matter to log the more powerful Aussies and Zedders. "Spot Tuning" is the best possible method, and a group of half a dozen stations may be selected from the following list of the more powerful transmitters.

```
550 2CR 10000 Cumnock, N. S. W.
560 6WA 10000 Minding, W. A.
570 2YA 60000 Wellington, N. Z.
580 3WV 10000 Horsham, Vict.
           3500 Sydney, N. S. W.
610 2FC
            4500 Melbourne, Vict.
620 3AR
           7000 Clevedon, Qsld.
630 4QN
            7500 Crystal Brook, S. A.
640 5CK
650 1YA 10000 Auckland, N. Z.
           7500 Corowa, N. S. W.
670 2CO
           7000 Grafton, N. S. W.
700 2NR
           7000 Kelso, Tasmania
710 7NT
           10000 Christchurch, N. Z.
720 3YA
730 5CL
            4000 Adelaide, S. A.
           3000 Sydney, N. S. W.
740 2BL
           3500 Melbourne, Vict.
770 3LO
          10000 Dunedin, N. Z.
790 4YA
            2500 Brisbane, Qsld.
800 4QG
           7000 Longford, Vict.
830 3GI
           5000 Wellington, N. Z.
1000 Sydney, N. S. W.
840 2YC
870 2GB
           2000 Rockhampton, Qsld.
910 4RK
           1000 Sydney, N. S. W.
950 2UE
           2000 Orange, N. S. W.
990 2GZ
            1000 Sydney, N. S. W.
1020 2KY
            2000 Crystal Brook, S. A.
1040 5PI
            1000 Brisbane, Qsld.
1120 4BC
1170 2NZ
            2000 Inverel, N. S. W.
            1000 Sydney, N. S. W.
1190 2CH
            2000 Oakey, Osld.
1220 4AK
            2000 Newcastle, N. S. W.
1230 2NC
           2000 Shepparton, Vict.
1260 3SR
            1000 Sydney, N. S. W.
1270 2SM
            2000 Tamworth, N. S. W.
1300 2TM
            5300 Newcastle, N. S. W.
1410 2KO
By picking some of the more pow-
```

erful stations such as the 60-KW 2YA and the 10-kilowatters 2CR, 1YA, 3YA and 4YA, the DXer will be able to "size up" the reception conditions tor the morning. On some mornings, the ever-welcome will hear 'swish" of the carrier as he dials the proper frequency. Other times he will hear nothing at first, but remembering the great distance and the resulting weak signals, he will "park" on the frequency for several minutes to allow for a period of fading. the signal eventually comes in, he should have no difficulty logging the station. If nothing is heard after five minutes, he can go on to another station and frequency.

If he finds that the big boys in New Zealand are coming through in good style, he can take a crack at some of the more popular Aussies such as 4QN on 630, 5CK on 640, 2CO on 670, 7NT on 710, 5CL on 730, 2BL on 740, 4QG on 800, 4RK on 910 and so on up the line. If he is still successful, he can try the smaller stations such as 2KY 1020, 2NZ on 1170, 2CH on 1190 and 2NC on 1230 all of which are reported frequently, despite their relatively low power.

Finally, after covering the stations listed above by "spot tuning," he will find a certain amount of "fishing" in Occasionally freak conditions will find several low power broadcasters coming through, although, as a general rule, fishing won't bring in anything startling.

DXers on the Pacific Coast have little trouble with the TP's, and few winter mornings will pass without at least a few of them being heard. In the Middle West, reception falls off

(Please turn to page 82)

The RADEX Club

FOR several years we have felt that the followers of this magazine would like to become associated with a club, if one was formed to operate under the RADEX aegis. "hunch" was fairly well founded because frequently letters came suggesting that an association be formed for RADEX subscribers, and even more frequently, correspondents referred to themselves as members of the "Radex Clan." From the "Radex Clan" it is but a step to The Radex Club. In actually forming the Club, we have merely given a name to a group of people which has existed for many years—all of them bound together by their mutual interest in long distance radio reception. It was with no misgivings, therefore, that we inserted the announcement of our Club in the September issue of our publication.

As this column is being written only a few days after the September RADEX appeared on the newsstands, we cannot report accurately, as yet, how our new venture appeals to "the clan," but returns from a few of the nearby states, and a few airmails from more remote localities, seem to indicate that the Radex Club is definitely wanted.

At the present moment, members have been enrolled from fifteen states and two Canadian provinces. Following is a list of the names of the first person to enroll from each of the states.

Arizona: John A. Ranta, Bisbee.

California: Norman Kinzly, Burbank. Connecticut: Fred Burleigh, Meriden.



Eddie Cantor and "Willie Winkett" before the BBC microphone, during the American star's recent visit to England. Eddie Cantor and "Willie Winkett." a rosy-cheeked, dapper ventriloquisit's dummy, took part in the first production of "Sing Song," a new BBC variety feature. (Photo by courtesy of British Broadcasting Corp.).

District of Columbia: Charles S. Greenwood, Washington.

Florida: Fred L. Hinkley, St. Petersburg.

Illinois: D. S. Barnes, Chicago.

Massachusetts: Charles Leboeuf,
Webster.

Michigan: Carl E. Sylvester, Yale. Missouri: Walter V. Scholz, Webster Groves.

New Hampshire: Harry Hawkins, Manchester.

New Jersey: Mrs. F. W. Reitz, Ocean Grove.

New York: W. M. Pettis, Ardsley-on-Hudson.

Ohio: Theodore Johnson, Youngstown.

Pennsylvania: A. M. Hankins, Latrobe.

Washington: Cecilia Huntoon, Wenatchee.

Saskatchewan: Paul Sampson, Regina. Ontario: J. F. Morris, Toronto.

We shall not print the complete addresses of members unless we are requested to do so. Any member who wishes the address of another member may obtain it by writing to us.

Membership cards are being prepared and will be sent to all the clansmen shortly.

Verify All Continents

An inscription on our Honor Roll, and eventually a more tangible award which may be hung on the wall of the "den", are the rewards our members will earn who succeed in verifying radio stations on all the continents.

We shall have three separate Verical All Continents Classes. One class will be for those members who have verified the six continents on the standard broadcast band. Another class will be for those who hear amateur stations on every continent, and the third group, for clansmen who hear shortwave stations on all continents.

Without question, it is more difficult to hear all continents on the broadcast band than on the shortwaves, or on the amateur bands. This fact makes it necessary to require different qualifications for the three different classes. The three rules which follow explain the different requiretnents.

 To qualify for the Verified All Continents rating on the standard broadcast band (540 to 1600 kilocycles), members must send us ONE verification from a broadcasting station located on each one

- of the six continents.
- To qualify for the Verified All Continents rating on the amateur bands, members must send TWO verifications from bona fide amateur stations located on each one of the six continents.
- To qualify for the Verified All Continents rating on the shortwaves, members must send FIVE verifications from shortwave stations on each one of the six continents.

The Broadcast Band

At the present time we are prepared to receive requests from our members for the Verified All Continents citations on the broadcast band only. PLEASE DO NOT SEND US AMATEUR OR SHORTWAVE VERIFICATIONS UNTIL WE RE-OUEST THEM.

Each verification submitted to us must be a genuine verification of reception. It must bear the name of the person submitting it. If a card, it must bear the original postage stamp, or if a letter, the envelope with stamp affixed must also be submitted. The date on the postmark must coincide, within a few days at least, with the date of the verification. Only ONE verification from each continent, or six veries altogether, should be sent at one time, and postage should be enclosed for their return

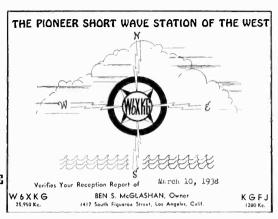
Broadcast band verifications, as explained above, will be within the frequencies of 540 and 1600 kilocycles. The six continental areas are:

 North America, including Newfoundland, Mexico, Bermuda, Central America and the West Indies.

(Please turn to page 75)

High Frequency Globe Trotting

With RAY LA ROCQUE



ITH the arrival of colder weather and a longer period of daily darkness, reception on the lower frequencies, especially the 6 megacycle and the 4.8 megacycle strips, should improve rapidly. Atmospheric static, always prevalent on this band during the warm months, has made reception dull and uninteresting on these particular channels in the Summer. Now, the static is declining and signals are improving in strength. The crowded conditions on this band tend toward causing much inter-station interference, but show us a DXer who doesn't delight in digging through QRM after a distant catch! The 4.8 megacycle band, which, last season, was a meca for Colombians seeking refuge from the crowded channels, will doubtless find many new countries filling its none too many vacant frequencies. All in all, the coming months of cold weather should provide many evenings of enjoyable DX with very fruitful results.

Before we start digging into the news of the month, we hope that you will not mind a few lines of explanation regarding our system of crediting the air some time ago, we have no

An ultra-high frequency verification. This large-size card from W6XKG is printed in blue on a blue-colored card, with call letters in red.

the various items contributed to us. All received information from sources will be credited with the symbol RX. All information mustered by yours truly will be appropriately labeled RL. Readers who by subscription to RADEX have been assigned a club number will find only their club number and the state following the item they submitted. (e. g. R201-Mass., R555—Calif., etc.) Those reporters not belonging to the RADEX club will have their items credited with their last name and the name of the state. Full names of contributors with residences and RADEX Club code numbers (if any) will be found at the end of this department.

MEGACYCLE BREVITIES

"Radio Turkey," reported by a few club bulletins to be operating on various frequencies from 15180 kcs. to its assigned 15195 kcs., is still a mystery! Though the Ankara (transmitter location) station was scheduled to come on

definite reports on reception and we believe that those who have reported it are merely guessing at its identity as the language is distinctly foreign to all short wavers and no positive identification is included in any report we've seen thus far. Certainly, no English is being used in the announcements as yet. . . A station not commonly heard by DXers is reported by A. V. Deterly of Baton Rouge, La. He reports hearing FZE8 (17280 kcs.) in Djibouti, Somaliland. It's a phone station used for commercial purposes, but it is a good target at which to aim. . . In Guatamala, TGWA will soon be relayed by a 1000 watt sister station— TGWB on 6040 kcs. . . Italy's 100 kilowatters will be ready for operation before we get ready to "ring out the old and ring in the new." . . . We heard a British comedian tell it over GSG the other afternoon: Seems that an American strolled into a London butcher shop and asked the clerk for a sheep's head. "One sheep's head", shouted the butcher. The American promptly spoke up, "Make sure it's an American sheep's head." "One sheep's head—and remove the brains," was the clerk's added shout.

QUOTE AND UNQUOTE

Below are just a few selections from the many letters received during the month. They contain items that in our opinion are of general interest to readers.

S. D. Stutson, Box 32, Suffolf, Va.: "In answer to the query of Richard Wright in the September issue of RADEX, the national anthems of the various countries named are:

Costa Rice, De La Patria (Of the Fatherland).

Cuba, Himno Nacional de Cuba.

Guatemala, Guatemala, en tul impia bandera (Guatemala, Around thy Spotless Banner).

Mexico, Mexicanos, al grito de guerra (Mexicans, at the call to Arms).

Philip Craig, Waterville, Maine: "I hear VK3ME regularly, but it is difficult to copy their signals in order to ger a correct report. When they give their address, it is spoken quite rapidly and is usually accompanied by a fade, making it impossible to get the complete address correctly. I have part of it, reading 167 Queen St., but elsewhere I have seen it listed as King St. Which is right?" (167 Queen St., Melbourne, Australia is correct—RL)

Carl M. Hansman, Bethel, Maine: "I heard what seems to be a new station on approximately 9655 kcs. the other evening about 8 p.m. and listened for about two hours. Part of the program consisted of talks on Venezuela. 'Lima' was mentioned on several occasions. The signal was QRMed badly and was weak." (Obviously it is either a new Venezuelan or Peruvian station, but we have no definite information or particulars concerning this one. Anyone else hear this one?—RL)

Rudolph Bossert, Rochester, New York: "I always read the various articles in RADEX with great pleasure, but there is one thing no one has discussed so far. I refer to ignition noise from autos. I think it is about time that something be done to do away with this type of disturbance. I'm using a Scott 23 with doublet antenna and noise reducing lead-in. Now, the lead-in helps a little, but as long as the aerial is within 150 feet of a street, it will pick up auto spark QRM. Many people buy short wave or all wave sets,

but soon give up short waves on that account, unless they live in the country
—but we can't all live in the country!

"I personally cannot do anything about it, but perhaps the radio clubs and magazines acting in unison can do something." Mr. Bossert certainly has brought up a point worth mentioning and in another part of his letter he mentions having the manufacturers build noise suppressors into their auto mobiles. This is a good idea—if it can be done—but there are, and will be for many years to come, hundreds of thousands of old cars on the road not equipped with the proper spark noise eliminators.

The National Association for the Prevention of Radio Interference (NAPRI) has been organized for the purpose of combatting interference, through the enactment of suitable legislation, and although the task is a stupendous one, some progress has already been made. We understand that the states of Washington, Oregon and Vermont, and the Territory of Hawaii, have enacted laws loking to the correction and elimination of this evil.

—RL).

ULTRA HIGH

Unknowingly, last month, we answered one of our own questions. We refer to the Minneapolis station on 26050 kcs., whose call we failed to ascertain. We showed it as W9XGP and listed a W9XTC in Rose Township as a new one. It has been revealed that Rose Township is a suburb of Minneapolis and W9XTC is none other than the station we have been hearing on 26050. Particulars are shown in the list below.

W1XPW on 40300 kcs. in Hartford, Conn. has been granted a con-

struction permit for a new high frequency broadcast station on the summit of West Peak, 2½ miles northwest of Meriden. Power—100 watts. (RX).

W1XOE on 31600 kcs. (May also use 35600, 38600, and 41600 kcs.) owned by Columbia Broadcasting System in Boston, Mass. has been granteh permission to move to Los Angeles, Calif. Some jump, eh wot? Of course, this means a change in call letters. The oddity is that we never would have been able to hear this one while it was located just a few miles from here, but prospects should be much better when it starts broadcasting on the coast. Just another peculiarity of the ultra bands. (RX)

W2XGD on 40300 kcs. in New York City, owned by the National Broadcasting Company, has been granted a construction permit for a limited high frequency broadcast station. We say limited because assignments on that band may be changed at any time. (RX)

W2XMN on 42800 kcs, in New York City has had extended its permission to conduct tests with 40000 watts on this channel. As yet, we have not ben able to hear any of them though it seems that this tremendous power ought to pack some kind of a wallop on these bands. (RX)

W9XA in Kansas City, Mo. has been granted permission to rebroadcast any or all programs of station KITE on 1530 kcs. (RX)

W9XPD on 31600 kcs. in St. Louis, Mo. is owned by the St. Louis Post Dispatch. They are continually asking for reports and promise to answer all reports with their QSL cards. (RL—Mass.)

W9XTC on 26050 kcs., in Minneapolis, Minn. relays the programs of WTCN and asks for reports. A very easily heard station in the Northeast, they are on in the morning till 1:00 p.m., at which time they sign off to return again at 5:00 p.m. They fade out here before they sign off so that the time is not known. (RL—Mass.)

W9XUP on 25950 kss., in St. Paul, Minnesota continues to be the best of the ultra high broadcasters here. They are suffering more and more from W6XKG's QRM, though, and the Californian will no doubt continue to gain in signal strength when the colder weather brings on greater skip distance.

Your comments and reports on ultra-high frequency reception are most welcome and we hope that soon there will be many more short wave fans realizing the fun that can be had DX-ing on this band while it is still in the experimental stage.

vēri news and new veries

VP3THE card folds over double and contains plenty of information. It has three pictures. White call letters on green background at top of card. (Keirstead—Mass., Gardner—Ohio).

RKI Some listeners are receiving a magazine "USSR in Construction" from this and other Russian stations. Bigger than LIFE magazine and full of pictures, it makes an interesting addition to any veri collection. (Tavener—Texas)

PSH—Card shows a sketch of Rio de Janeiro harbor in black on yellow background. Call in red and frequency in violet at top right corner of card.

W6XKG—Veri card is light blue with all print in dark blue except en-

circled call in red in center. Outside of circle are lightning flashes representing radio waves in all directions.

Cloud effect in background makes for a very neat card!

"JZJ verified with an eight page program sheet for the month, and the statement that my report was correct. A questionnaire was also received containing twelve questions to be filled out when reporting to them again, pertaining to type of radio and antenna system and conditions existing about the listener's own receiving post." (Craig—Maine).

W4XB is now cerifying reports of listeners. They verify by letter. (N.N.-R.C. Bulletin).



A pretty two-color card from Buenos Aires. This card is used to verify reception of broadcast band station LR4, or shortwave station LSX. The deckled edge is distinctive among veries.

SHORT WAVES IN REVIEW China

XGOW is now on 8900 kcs. about 8:00 a.m. daily (Wilson—Maine).

Curação

PJC-2 on 15220 kcs. is very good from 10:30-11:00 a.m. on Wednesdays. They have a very enjoyable musical program. W8XK sometimes causes a little QRM. (Wilson-Maine).

Denmark

OZF on 9520 kcs. is R9 in the eastern part of the country almost nightly. (Wilson—Maine).

Ecuador

HCJB on 12450 kcs. is heard on this new frequency with very strong signal from 7:30 p.m. to 10:15 p.m. Heard program in English titled "Wonders of Quito" from 10:00 to 10:15 p.m. (Satterthwaite—Calif.)

Finland

There are two short wave transmitters in Finland. One in Lahti ("Radio Lahti") with 1000 watts on 9500 kcs. and 11780 kcs., and another in Helsinki with 2000 watts on 6120 kcs. A third station of 1000 watts to be completed in October will transmit on 15190 and 17800 kcs. The power of both stations now operating will be increased to 10000 watts by the end of this year. A directional antenna to North America is now under construction. Schedule for OFE on 11780 kcs. is 1:05-1:45 a.m., 5:00-6:15 a.m., and 10:00 a.m. to 12:05 p.m. For OFD on 9500 kcs. the schedule is noon until 5:00 p.m. Both are daily schedules. All of these programs are broadcast by the 6120 kcs. station and consist of relays from the regular Finnish Broadcast Programs. (Hubbard-England, and IDA Globe Circler).

France

TPB-7 on 11885 kcs., has been heard from 10:00-10:45 p.m., with signal about R8. TPA4 (TPB-9—RL), with signal about R5 and interference from CJRX, also broadcasts the same program. (Ososke—Mich.)

Guatamala

TGWA on 15170 kcs. remains on the air till 2:00 p.m. daily except Sunday. Announcements are made in both Spanish and English (Scholz—Missouri).

India

VUE-3 is reported to be the call of the new Delhi transmitter reported here last month on 15160 kcs. VUE-3 comes on the air at 8:30 p.m. with chimes followed by a clock striking seven times. (RL—Mass.)

Martinique

"Radio Martinique" on 9700 kcs. now comes on the air at 6:00 p.m., not 7:00 p.m. as formerly. (RL—Mass.)

Peru

OAX4T on 9562 kcs. heard between 5:30-6 p.m. although QRM from W1XK was severe. (RL—Mass.)

Poland

SPW on 13635 kcs. is being heard between 6 and 8 p.m. daily. On Sunday they are on until 9 p.m. SPD is heard on 11535 kcs. with the same program as SPW. Both stations seem to come in equally well—signals about R5. (Ososke—Michigan).

Two new Warsaw, Poland stations operating in parallel with SPD and SPW are SP-19 on 151160 kcs., and SP-25 on 11740 kcs. SPD is heard with a fair signal, but SP-25 is covered by CCOX most of the time and is a tough one to hear. Both come on the air at 5:30 p. m. along with SPD and SPW.

(Arthur F. G. Bruder-Mass.)

Portugal

CSW (officially 9940 kcs.) heard around 9800 kcs. has been received with good voume lately and at times

their signal is equal to that of WWJ. They seem to be on 9800 kcs., but the card verification from them shows the frequency as 9940 kcs. CSW is operating from 5-8 p.m. (Ososke--Michigan).

Spain

EAR on 9860 kcs. at Madrid, Spain now follows this new schedule: Three broadcasts daily starting at 3:30 p.m., 6:30 p.m., and 7:40 p.m. This, apparently, is the old EAQ transmitter, but they are using EAR as a call and the address is given as "EAR, The Voice of Republican Spain, Box 951, Madrid." (Satterthwaite—Calif., and Harris—Mass.)

Switzerland

HBO, (listed 11402 kcs.) reported on 11435 kcs. Heard easily with an R9 signal. They are on the air Sunday nights from 7:00-7:45 p.m. (Ososke—Michigan).

U.S.A.

W2XE on 21515 kcs., New York, N. Y. Frequency has been changed from 21520 to 21515 kcs. in order to eliminate sideband interference in European transmission. Arrangement is only temporary—until interference can be cleared. (RX)

W4XB on 6040 kcs. has been heard from 10:00 p.m. to 1:00 a.m. relaying the programs of WIOD. This station is now back on the air after being silent for a long period. They are heard here with an R7 signal. (Ososke—Michigan).

W4XD on 6425 kcs. This station announcing as an experimental station of the University of Florida was heard

one morning at 7:45. Any further particulars will be appreciated. (Scott—Tenn.)

WAWZ—the famous "Pillar of Fire" organization station on the broadcast band has applied to the FCC for a construction permit for a shortwave station to operate on 6080, 11830, and 17780 kcs. (RX)

And thus, without further comment, we come to the terminal point of another session. We hope you've enjoyed this, our second get-together, as much as we have and that you'll be back with us next month for more. In the meantime, how about letting us know what sort of stuff is trickling down your antenna wire these autumnal evenings?

RADEX REPORTERS FOR THIS MONTH

Curtis F. Keirstead, Framingham, Mass. Cliff Tavener, Rosenberg, Texas Philip Craig, Waterville, Maine C. Robert Wilson, Portland, Maine Harold Satterthwaite, Los Angeles, Calif.

Leonard D. Hubbard, London, England Edmund Ososke, Detroit, Michigan Walter V. Scholz, 2nd, Webster Groves, Mo.

G. L. Harris, Northampton, Mass. William Scott, Johnson City, Tenn.

KENORA STATIONS

Gordon Myles of Kenora, Ontario, is the first to report that the new station being built in his city will be known as CKCA. It will transmit on 1420 kcs. with 100 watts, and hopes to increase power to 250 watts soon after its inauguration.

ACROSS the Editor's DESK

SINCE the month of October heralds the beginning of reception of stations from South America, this issue of RADEX has been dedicated to that continent.

South America, land of oil, pampas, high mountains and enormous rivers, rin and silver, marvelous cities and uncounted opportunities, offers to the radio fan, broadcasting stations on long and short waves, from the smallest "peanut whistle" to the finest high powered transmitters. On the shortwaves dozens of South American stations can be heard every night, and during our winter months the stations on the regular broadcast band come through with relative ease. Mr. Lord's broadcast band column this month gives many tips to aid you in hearing these stations, and the index of South American stations will prove an invaluable aid in identifying the stations you hear.

South America surpasses all other continents in the tremendous extent of its inland waterways and the largest ocean steamers are able to sail for 1000 miles up the Amazon River, as far as Manaos, in Brazil. Only about one quarter of the area of this continent has been surveyed.

There are only four European dependencies on the continent, the three Guianas, British, French and Netherlands, and Inini. French Guiana is best known for Devil's Island, its penal colony. Netherlands Guiana is now called Surinam. Inini, formerly a part of French Guiana has been a separate colony since 1932.



"Roche Internacional de Brasil

Caus postal

The most beautiful harbor in the world, at Rio de Janiero, Brazil. This view is taken from the verification card of PSH, shortwave station on 10220 kcs. This is a bi-lingual card, in English and Portuguese, printed in black on a yellow background.

All the other countries in South America are republics, and the official language of all the republics is Spanish, except Brazil, where Portuguese is spoken.

The Argentine

The Argentine Republic is divided into fourteen provinces, ten territories and one Federal District. Like New York, she has a Staten Island. It is situated near Tierra del Fuego, and used as a point of deportation for criminals and undesirables. Twenty-five per cent. of the Argentine population is foreign. Her largest cities are Buenos Aires, the capital, with 2,153,200 persons, Rosario, Cordoba, Tucuman, Santa Fe, Mendoza, La Plata, Bahia Blanca, Parana and Salta. The distance from Chicago to Buenos Aires is 5598 miles.

Bolivia

Bolivia is the most sparsely populated of all the republics. She has two capitals, La Paz being the site of the

executive and legislative branches of government, and Sucre the seat of the supreme tribunal. La Paz is the largest city, with 149,500, and Oruro is the second largest city, with 31,360. Other large cities are Sucre, Potosi, and Santa Cruz de la Sierra. From Chicago to La Paz the distance is 4130 miles.

Brazil

The largest of the South American countries, occupying more than half of the continent, is Brazil. First called "Vera Cruz", after its discovery in 1500, it was later changed to Brazil by King Emmanuel of Portugal, because of the large number of brazilwood trees. The United States of Brazil is divided into twenty states, one national territory and one Federal District. The names of the states are usually given in parentheses following the names of cities. Her largest cities are Rio de Janeiro, the capital, with 1,700,000, Sao Paulo (Sao Paulo), Sao Salvador (Bahia), Recife (Pernambuco), Belem (Para), Fortaleza (Ceara), and Manaos. The air line distance from Rio de Janeiro to Chicago is 5320 miles.

Chile

Chile, with a coast line 2485 miles long, and an average width of only 90 miles, boasts every kind of climate, from desert regions in the north to cold, almost Arctic wastes, in the south. This republic consists of seventeen provinces. The largest city is Santiago, the capital, with a population of 696,231. Other large cities are Valparaiso, Concepcion, Antofagasta, Iquique, Vina del Mar, Talca and Chillan Airline, the distance from Chicago to Santiago measures 5320 miles.

Colombia

The area of the Colombian Re-

public is about equal to the combined areas of the states of Louisiana, Texas, New Mexico and Arizona. There was a time, however, when this country was much larger. For thirteen years (1819-1832), during which time she was known as Greater Colombia, she occupied nearly all of the northwestern



Except for the automobiles driving on the left side of the street, this photograph of the "Diagonal" in Buenos Aires might be a picture of any progressive American city.

part of South America. In 1832, however, Greater Colombia was split up in to the three countries of Venezuela, Ecuador and new Granada. In 1863 the name of New Granada was changed to the Republic of Colombia.

This is the only South American country which has a coast line on both oceans. It is also wholly within the tropics, and nearly all the emeralds mined today come from this country, famous also for coffee. Her capital

and largest city is Bogota, with 241,-999; Medellin, with 120,044, and Barranquilla, Cali, Cartagena, Manizales, Cucuta and Bucaramanga, her other large cities, are all familiar to shortwave listeners. From Chicago to Bogota, the crow flies 2691 miles.

Inca-land

The republic of Ecuador, in area about the same as Arizona, lies on the equator, hence the name. Ecuador is most famous for its Panama hats, and the volcanoes of Chimborazo and Cotopaxi. The capital is Quito, and the cities of Quito and Guayaquil are about equal in population, both having 100,000 people. Other towns are Riobamba, Ambato and Loja.

Paraguay is one of the two inland countries of the continent, and, in size, is about the same as Nebraska and Kansas combined. The capital, Asuncion, is the largest city, with 90,003, and her other important cities are Villarrica, Concepcion and Luque.

Peru, with about 2800 miles of railroads, and important mineral deposits, is still the land of the llama, since most of the mountain transportation is done by means of caravans of llamas driven by Indians. Lima, the capital, is a city of 316,000, and Cuzco, the ancient capital of the Incas, is 15,000. Callao and Arequipa are other important centers.

At one time a province of Brazil, Uruguay became independent in 1825. It is the smallest South American republic. Her capital, Montevideo, has a population of 655,615, and her other cities are Paysandu, with 26,000, and Salto, with 30,000.

Venezuela, the third largest producer of petroleum in the world, is equal in size to the combined areas of the states of Texas and New Mexico. Her capital and metropolis is Caracas, with 135,253, and La Guiara, seaport, has 7,334. Other cities are Maracaibo, 46,706; Valencia, 29,466; Barquisimeto, 23,943; Ciudad Bolivar, 19,712; Puerto Cabello, 14,099. From Chicago to Caracas the distance is 2480 miles.

Parade of the States

When this column was prepared, we had not yet received enough of the ballots, which were printed in the September issue, to determine which stations will be asked ultimately to broadcast for the entertainment of our readers. We expect by next month, however, to be able to report on the voting, and perhaps to give the dates of some programs.

For the benefit of readers who may have missed the September issue, we are reprinting the ballot this month.

Thanks

For photographs used in RADEX this month, we thank the following contributors: A. R. Rose, of station WMCA, New York; the British Broadcasting Corporation, Martin J. Olthoff, HJ1ABK of Barranquilla, Colombia, W6XKG of Los Angeles, LS2 and LR4 of Buenos Aires, and PSH of Rio de Janeiro.

Everyone who submits a photograph which is used receives a free copy of the issue in which the picture appears, or if he is a subscriber, his subscription is extended an additional copy. If you have some good-looking QSL cards, unusual views of radio stations, or a good snapshot of yourself in your radio den, send them along—we will take good care of them, and if we can use them, you will get your RADEX for nothing. Fair enough?

NEWS of the STATIONS



THE photograph shown at the head of this column pictures one of the studios of WMCA, New York City. There are ten studios all together, no two of them being alike; each one features a different design, and the walls and ceilings are of light pastel tones. The patterned linoleum on the floor of the studio illustrated has as a motif, a radio tube filament and grid.

This room, known as Studio Number Five, accommodates a 14-piece orchestra and is used for such productions as "Five Star Final," a popular WMCA program. The control room and the sponsor's room shown at the rear are elevated about four feet from the studio floor.

Station KOB of Albuquerque, New Mexico, announces that Mr. C. L. Eanes, who for the past nine years has been connected with Albuquerque newspapers, has been named manager of the Albuquerque Broadcasting Company, operators of radio station KOB.

The "Station News" column this month has been expanded to include a tabulation of applications to the Federal Communications Commission for new stations, or new facilities for existing stations. This news, along with the Examiners' Recommendations and the Month's Changes, will give our readers a complete picture of what is going on in the radio world.

Comments from our readers concerning the usefulness of this new table will be appreciated.

APPLICATIONS TO THE FCC

KEX, Portland, Ore., change freq. to 1160. (SFH).

KFBB, Great Falls, Mont., mod. of lic. to change freq. to 900, pwr. to 5 kw. unltd.

KFJZ, Ft. Worth, Tex., CP to change freq. to 930, pwr. to 500 w. unltd.

KOVC, Valley City, N. D., CP to change freq. to 1340, pwr. to 500 (1).

KRMC, Jamestown, N. Dak., CP to change freq. to 900, pwr. to 500 (1).

KRSC, Seattle, Wash., CP to incr. pwr. to 500. (SFH).

KWNO, Winona, Minn., mod. of license to change pwr. to 100 (.25) unltd.

WBAL, Baltimore, Md., CP to change hrs. from share with WTIC to unltd., change pwr. to 50 kw., move xmitter to Reisterstown, Md.

WBOW, Terre Haute, Ind., CP to change freq. to 1200.

SFH (Set for hearing); freq. (frequency); mod. (modification); lic. (license); pwr. (power); unltd. (unlimited time); CP (Construction Permit); hrs. (hours); xmitter transmitter); exp (experimental) LS (local sunset).

WCHS, Charleston, W. Va., CP to increase

pwr. to 1000 (5).

WCOU, Lewiston, Me., mod. of CP for new station requesting approval of xmitter site at 378 East Ave.

WDEL, Wilmington, Del., mod. of CP to

change pwr. to 1000 w.

WGTM, Wilson, N. C., CP to change freq.
to 1240, pwr. to 500 w.

WHAI, Greenfield, Mass., mod. of lic. to change pwr. to 100 (.25) unltd.
WHB, Kansas City, Mo., CP to change pwr.

to 10 kw. unitd.
WHDH, Boston, Mass., CP to change pwr. to

5 kw. unltd.

WHJB, Greensburg, Pa., CP change pwr. to

1000 w. unltd. WIP, Philadelphia, Pa., CP to change pwr. to 5 kw., move xmitter to Brooklawn, N. J.

WIRE, Indianapolis, Ind. mod, of CP to

change pur. to 5 kw. (SFH).

WIS, Columbia, S. C., special exp. authority for new satellite station at Sumter, S. C., 560 kcs., 10 to 100 w. from LS to sunrise. (SFH).

WJAR, Providence, R. I., CP to change pwr.

WJAR, Providence, R. I., CP to change pwt. to 5 kw. unltd.
WJBL, Decatur, Ill., CP to change freq. to 1310, pwr. to 100 (.25) unltd.
WKBN, Youngstown, Ohio, mod. of lic. to change freq. to 640, pwr. to 1 kw. unltd.
WMBC, Detroit, Mich., CP to change freq. to 600 pwr. to 250 w. unltd. (SFH).
WMFF, Plattsburg, N. Y., CP to change freq. to 1240, pwr. to 1 kw.
WPG, Atlantic City, N. J., CP to change

to 1240, pwr. to 1 kw. WPG, Atlantic City, N. J., CP to change hrs. from specified to unltd., move studio from Atlantic City to 132 W. 43rd St., New York, transmitter Kearney, N. J. (Requesting facilities of WBIL and WOV. Change owner to Greater N. Y. Broadcasting Corp.) WRAW, Reading, Pa., CP to change pwr. to 250 w. (SFH). WSJS, Winston Salem, N. C., CP to change pwr. to 100 (.25), move xmitter to Liberia St.

pwr. to 100 (.25), move xmitter to Liberia St. and Salem Creek. (SFH).

WTEL, Philadelphia, Pa., mod. of lic. to change freq. to 1500, hrs. to unltd. (SFH). WTMV, E. St. Louis, Ill., mod. of lic. to

change pwr. to 250 w. (SFH).
W3XAU, Philadelphia, Pa., mod. of lic. to add freq. 11830 kcs

Ashland, Wis., WJMS, Inc., CP 1200 kcs., 100 (.25). (SFH). Bowling Green, Ky., 1310 kcs., 100 (.25)

Cleveland, Ohio, Cuyahoga Valley Brdcstg. Co., 1500 kcs., 100 w. days. (SFH).

Ely, Wyo., 1500 kcs., 100 w. days. (SFH).

Fremont, Nebr., Nebr. Brdcstg. Corp., 1370

kcs., 100 (.25). Hastings, Nebr., South Nebr. Brdcstg. Co.,

920 kcs., 1000 (5). Orville W. Lyerla, 1310 kcs.,

Herrin, Ill., (100 (.25) unltd. Kingston, N. Y., 1500 kcs., 100 w. days.

Metuchen, N. J., Bernard Goldsmith, 1420 kcs., 100 w. days. (SFH).

Modesto, Calif., Thomas R. McTammany, 740 kcs., 250 w. unltd. Requests facilities of KTRB.

Ocala, Fla., John T. Alsop, Jr., 1500 kcs., 100 w. unltd.

Phoenix, Ariz., M. C. Reese, 1200 kcs., 100 (.25) unltd. (SFH).

San Juan, P. R., Enrique Abarca Sanfeliz, 580 kcs., 1 kw. unltd. (SFH).

Sedalia, Mo., 1500 kcs., 100 (.25) unltd. (SFH).

Springfield, Ohio, 1310 kcs., 100 w. unltd. (SFH)

Steubenville, Ohio, John F. Nolan, 1310 kcs., 100 w. days.

Sumter, S. C., J. Samuel Brody, 1310 kcs., 100 (.25) unltd. (SFH). Tacoma, Wash., Michael J. Mingo, 1400 kcs.,

250 w. unltd.

Worcester, Mass., Winfield A. Schuster, 1200 kcs., 100 w. unltd.

RECOMMENDATIONS OF FCC EXAMINERS

KATE, Albert Lea, Minn., mod. of lic. to change pwr. to 100 (.25) unltd.

KEEN, Seattle, Wash., CP to change freq. to 1420 pwr. to 100 (.25 unltd.

WDAE, Tampa, Fla., mod of lic. to change

freq. to 780.

WGNY, Newburgh, N. Y., CP to change freq. to 1220, pwr. to 250, and hrs. from shared to days.

WHP, Harrisburg, Pa., CP to change pwr. to 1000 (5).

WMSD. Sheffield, Ala., mod. of lic. to

WMSD, Snemeid, Aia., mod. of lic. to change studio to Muscle Shoals City.

WPRA, Mayaguez, P. R., CP to change freq. to 780, pwr. to 1000 (2.5) unitd.

WRBL, Columbus, Ga., mod. of CP to change freq. to 1330, pwr. to 1 kw.

WTAQ, Green Bay, Wis., CP to change pwr.

to 1000 (5).

Atlantic City, N. J., Press Union Publishing Co., 1200 kcs., 100 (.25) unltd.
Denver, Colo., F. W. Meyer, 1310 kcs., 100

Emporia, Kans., Emporia Brdcstg. Co., Inc., 1370 kcs., 100 w. days. Lihue, Hawaii, Garden Island Pub. Co., Ltd.,

1500 kcs., 100 (.25) unltd. Goldsboro, N. C., 1370 kcs., 100 w. unltd. New Bern, N. C., Nathan Frank, 1500 kcs.,

New Bern, N. C., Nathan Frank, 1000 kcs., 100 w. unltd.
Rock Hill, S. C., 1500 kcs., 100 w. days.
St. Petersburg, Fla., Pinellas Brdcstg. Co., 1370 kcs., 100 (.25) unltd.
Vancouver, Wash., 808 kcs., 250 w. days.
Wallace, Idaho, 1420 kcs., 100 (.25) unltd.
Washington, D. C., Lawrence J. Heller, Commissioner recommended dismissal of application for 1310 kcs., 100 (.25).

THE MONTH'S CHANGES IN STATION DATA.

	New	1310	KINY Juneau, Alaska, to 1430
1200	WJHL Johnson City, Tenn.	1310	WOL Washington, D. C., to 1230
1210	WRAL Raleigh, N. C.	1370	KAST Astoria, Ore., to 1200
1500	WGKV Charleston, W. Va.	1370	KSLM Salem, Ore., to 1360
1500	WSTP Salisbury, N. C.		Permit to Change Power
1	CBA Sackville, N. B.	560	WFIL Philadelphia, Pa., to 1000
	CBK Canadian Prairie station	580	WILL Urbana, Ill., to 5000
	Frequency	590	WKZO Kalamazoo, Mich., to 250 (1)
1290	CMJK Camaguey, Cuba, from 780	760	KXA Seattle, Wash., to 1000
1300	CMHX Cienfuegos, Cuba, from 760	770	KFAB Lincoln, Nebr., to 50,000
1320	TG1 Guatemala City, from 1305	850	WKAR E. Lansing, Mich., to 5000
570	CMCY Havana, Cuba, 10,000 from 5000	850	WWL New Orleans, La., to 50000
810	CMCF Havana, Cuba, 5000 from 600	880	CMW Havana, Cuba, to 5000
1200	KVEC San Luis Obispo, Calif., 100	880	WRNL Richmond, Va., to 1000
1200	(.25) from 250	890	WFNF Shenandoah, Iowa, to 1000 (5)
	Reinstated	900	KGBU Ketchikan, T. A., to 1000
1500	KROD El Paso, Texas	920	CMX Havana, Cuba, to 10000
	Call Letters	1000	CMBZ Havana, Cuba, to 5000
1450	TGQ Quezaltenango, Guat., from TGA	1040	KRLD Dallas, Texas, to 50000
	Owner	1110	CMCJ Havana, Cuba, to 5000
940	WICA WICA, Inc., Ashtabula, Ohio	1110	WRVA Richmond, Va., to 50000 CMBS Havana, Cuba, to 5000
1050	WGVA Indiana Brdcstg. Corp., Indiana-	1170	WATR Waterbury, Conn., to 250
	polis, Ind.	1190	KLPM Minot, N. Dak., to 500 (1)
1310	WGTM WGTM, Inc., Wilson, N. C.	1240 1250	KIT Yakima, Wash., to 500 (1)
1370	KLUF KLUF Brdcstg. Co., Inc.,	1260	CMBD Havana, Cuba, to 5000
	Galveston, Tex.	1310	KINY Juneau, T. A., to 250
1470	WLAC J. T. Ward, WLAC Brdcstg. Service, Nashville, Tenn.	1350	CMCA Havana, Cuba, to 5000
	Permit to Change Frequency	1350	KWK St. Louis, Mo., to 5000
770	KFAB Lincoln, Neb., to 1080	1370	KAST Astoria, Ore., to 100 (.25)
980	XEFE Nuevo Laredo, Tams.	1370	KSLM Salem, Ore., to 500
1190	WATR Waterbury, Conn., to 1290	1380	WNBC New Britain, Conn., to 250 (1)
	KLPM Minot, N. Dak., to 1360	1380	WSMK Dayton, Ohio, to 250 (.5)

The DX Calendar

EST HP5A, 9604 kcs., Sept. 24, 9-10 pm Panama City, Pan (IDA) WJAG, 1060 kcs., Norfolk, Nebr. Oct. 14, 1:30-7:15 am NOTION, NEDT.
PRD2, 1060 kcs.,
Rio de Janeiro, Brazil
(IDA)
TGW, 1520 kcs.,
TGWA, 9685 kcs.,
Guatemala City, Guat. Oct. 15, 3-4 am Oct. 22, 10-11:30 pm (IDA) PRG2, 1040 kcs., Sao Paulo, Brazil (IDA) Nov. 6 to 12, 3-4 am Sao Paulo, Brazil (WJAG, 1660 kcs., Norfolk, Nebr. T14NRH, 9670 kcs., Heredia, Costa Rica (NRC) Nov. 11, 1:30-2 am Nov. 24, 9-10 pm Dec. 4. HJ7ABD, 9630 kcs., Bucaramanga, Colombia (IDA) WJAG, 1060 kcs., Norfolk, Nebr. EAJ7, 1095 kcs., Madrid, Spain (IDA) "Radio Strasbourg," Dec. 9, 1:30-2 am Dec. 18, 1-2 am Jan. 8, 1-2 am 859 kcs., Strasbourg, France (IDA)

10:30 pm Oct. 13 to 4:15 am Oct. 14 12:01-1 am Oct. 15

10:30 pm Oct. 14 12:01-1 am Oct. 15

10:30 pm Oct. 22

10:30 pm Oct. 22

10:30 pm Oct. 22

10:30 pm Oct. 22

10:30 pm Oct. 24

10:30-11 pm Nov. 6-12

10:30-11 pm Nov. 24

10:30-11 pm, Dec. 8

10:11 pm, Jan. 7

10-11 pm, Dec. 17

6-7 pm Sept. 24

GROUND FLOOR

WHEN the usual personality story of a radio entertainer breaks into print, it is an odds-on bet that the theme will fall into one of three "elevator-like" classifications—Going Up, At the Top or On the Way Down.

Certainly out of the ordinary, and perhaps of genuine interest to radio listeners, is the story of a young man, who, although still on the ground

floor. seems destined to enter the elevator which will carry him to the heights. Such is the story of Carrington Veale, who was an outstanding hit as the singing lead in "Fifty - Fifty," the latest production of the University of Pennsylvania's justly famous Mask and Wig Club.

Audiences have come to accept the usual college undergraduate performance much in the same light as the traditional high school senior play. They go to applaud

the capers of local favorites, don't expect a great deal in the way of real entertainment, manage to come away without being disappointed.

Not so are productions of the Mask and Wig Club, which in late years has demonstrated that Penn prestige is safer behind the footlights than on the gridiron. Theater-goers in the larger

Eastern cities delight in the balanced, well-produced extravaganzas of the Wiggers, concur in the belief that only top Broadway hits can cram more entertainment into an allotted two and a half hours.

Last season found the Mask and Wig Club offering its fiftieth annual production, and critics agreed that undoubtedly it was the best in recent

> zears. From its opening in Trenton, through its regular engagement at the Erlanger Theater in Philadelphia and at the famous Center Theater of Rockefeller Center in New York, and on its triumphant 3000-mile tour through Mid-Western cities, reviewers were enthusiastic in their praise.

They liked the uniformly wellstaged dances, the and

lively specialty numbers, the novel sometimes glittering costumes, the imaginative sets, the sparkling dialogue. But in the minds of all, the brilliant music was the outstanding feature of this vivacious jubilee production. Audiences left the theaters humming and whistling the hit tunes, "I Live the Life I

"Gypsy in My Soul." And no review failed to applaud the

Love," "Make Believe Island"



Carrington Veale

voice and personality of the handsome young baritone, Carrington Veale, who introduced "I Live the Life I Love." From the opening performance, at which a Trenton critic reported that Veale "brought the audience to its feet" with his rendition of this rollicking song, each succeeding appearance brought further acclaim.

The staid Philadelphia Bulletin, not unduly influenced by the home-town boy angle, reported "'I Live the Life I Love,' not only is good for a Mask and Wig show but it would be good in any performance, and Carrington Veale has a voice of which much the same can truthfully be said." The Evening Ledger of the same city singled out Veale's singing as the "foremost solo performance of the evening." Mid-Western papers commented on his "fine voice coupled with pleasing personality."

The tip-off for the future is found in the warning words: "The hit song is 'I Live the Life I Love,' which is the kind of a song that makes a guy want to put his best girl up in a balcony so he can sing to her. It is sung by Carrington Veale, just as it should be sung. Mr. Veale is what is known in the trade as 'a find.' Broadway will be looking for him if he doesn't watch out."

With such a reception to his first important public appearance, it is small wonder that Carrington Veale has good reason to look forward to a career in radio and on the stage. Coached by Edwin Evans, his naturally brilliant voice is developing rapidly, and his Mask and Wig reputation may provide the necessary impetus for the next big stride ahead.

Ample precedent for whatever ambitions he may cherish is furnished by former stars of the famous U. of P. organization. John Beal of the 1930 show is known to many movie-goers as a featured MGM player today. Austin Marshall, the singing star of the 1934 Mask and Wig production, has his name in Broadway lights as the juvenile lead in the smash hit "I'd Rather Be Right." And Remi Martell, one of the principles of the 1935 show, has made a reputation as a dancer in "New Faces of 1938."

Like so many budding stars, Carrington Veale made an early start. His warm, pleasing voice was noticed several years ago, and churches near his Philadelphia suburban home provided the opportunity to develop an effortless style of singing. Sound coaching laid the right foundation for future success.

Oddly enough, although his greatest fame so far has come from his Mask and Wig performances, it was only during the last year that he was associated with the club. When he entered the Wharton School of the University of Pennsylvania in 1934, he was attracted by the reputation of Mask and Wig, and decided to try out for the show which was soon to go into production. But at the first auditions, he found the blue torch songs then featured not to his liking, and he left the hall before his turn.

For three years he confined his campus vocal activities to the Penn Glee Club, at whose concerts he was a featured soloist. It was only last year that the Mask and Wig Director heard him sing, persuaded him to try out for

'Fifty-Fifty," and finally installed him as the singing lead.

During the past winter, Veale added radio to his activities. As a soloist with organist Arthur Hinett on Philadelphia's KYW, he soon impressed listeners with the warm quality of his voice. On another regular sustaining program, he sang with Jan Savitt's popular NBC orchestra.

When "Fifty-Fifty" played in New York, he appeared over a coast-to-coast NBC network with Al Donahue's orchestra from Radio City's Rainbow Room. During the same visit, he was heard with Vox Poppers Wally Butterworth and Parks Johnson on their Tuesday night commercial. And although he was pleased by the interview, he admits that he hasn't gotten around to using the free tube of Molle.

Despite the warm reception which greeted his Mask and Wig performances and the approval which followed his radio appearances, his biggest thrill so far came at a Penn dance early last spring. Introduced to sing the song which he made famous in "Fifty-Fifty," he was cheered to the echo. No gridiron hero on Franklin Field ever received a greater ovation, and that is a memory which he will treasure for many a day.

With a June graduation behind him and a B.A. degree in his pocket, he is buckling down to the task of carving a career for himself. He appreciates only too well the difficulties which lie ahead, realizes the obstacles which must be surmounted before he can crash into Big Time. But he has the confidence and determination which will be his most valued aids in the long, tough climb.

Where is he going? What kind of a career would he like?

"Radio is interesting work," he will answer, "and it certainly pays well. Opportunities should be unlimited, particularly since there haven't been many new singers to reach stardom in the past few years. It is different, though, since the engineers do the shading of your voice, since you can't do it yourself.

"For my part, singing before a real audience is the greatest of all experiences. Your voice comes back to you from the auditorium and you can do your own shading. You can watch the audience and see just how your song is getting across. And when it goes over—Boy! That's a real thrill!

"I suppose my real ambition, though, is a chance in the movies. I'll always hope for the opportunity to make a screen test. It may not pan out very well, but I guess that's what I really want. However that may turn out, I'll still want to do some radio and concert work.

"Lots of singers today have voices which *could* be popular. A few are gifted with talent equal to that of Nelson Eddy and other top-notch vocalists. All that most of them need is the one important break that will give them the right start. Once on the way, a lot of today's unknowns would have what it takes to go places."

Disinterested observers around Philadelphia agree that Veale is one young singer who definitely has what it takes. Some of the older music lovers who recall Nelson Eddy's early solo work in that city, will tell you that Carrington Veale has a voice strongly reminis-

(Please Turn to Page 95)

Answers To Readers' Problems

• • By The TECHNICAL EDITOR

Adding A Tube

PLEASE TELL ME HOW I MIGHT ADD ANOTHER TUBE TO MY MODEL 59 PHILCO? THE SET IS SENSITIVE BUT SEEMS TO LACK SELECTIVITY. IT HAS BEEN ALIGNED TO ITS MAXIMUM SELECTIVITY—R. K.

We are of the opinion that the addition of another tube to this receiver is useless, as well as being a difficult and expensive undertaking. To improve selectivity it will be necessary to have another stage of radio-frequency amplification. This means additions to the tuning condensers and other vital parts of the circuit. Our suggestion is the use of a separate preselector, such as has been mentioned in these columns a number of times.

Atwater Kent 89

I HAVE BEEN TRYING FOR YEARS TO GET A CIRCUIT DIAGRAM OF MY ATWATER KENT, MODEL 89. IS IT POSSIBLE THAT YOU CAN GET ONE FOR ME?—L. J. B.

We cannot reproduce the diagram of the corcuit used in your Atwater Kent, model 89, receiver, but we are mailing you a copy of this diagram which you may copy or have photostated, and return the original to us. Circuit diagrams are not available for all sets, unfortunately, but we are happy to help our readers as far as possible. Photostats can not be made by us unless the reader wishes to incur that expense; otherwise, he will have to make his own copy if we can loan the original.

Atwater Kent 82

Why is it that an Atwater Kent, model 82, flutters or motor boats when a little above or below a station setting on the dial? And the set hums a bit, too.—O. C. H.

We wish to suggest that motor boating or the fluttering, of which you complain, may be due to a defect in a 0.25 microfarad condenser which is connected between the detector plate and the ground. This is the type 24 tube. This same tube has a condenser connected between the screen and the ground, which might be examined. The filter condenser, first mentioned, attaches to the plate of the second detector between two resistors that are in the plate supply line—one is black, and the other is yellow and red. Hum can be caused by a number of things which a good service man can find, one usual cause for trouble being in the grid resistor leading to input of the type 47 power tube. This is a purple and black grid leak. Bad tubes and improper adjusting or aligning can cause similar troubles. Check the power units connected to the type 80 tube if hum persists.

Unnecessary Tubes

I HAVE A 1937 ZENITH, 6 TUBES, AND IT GIVES WONDERFUL RESULTS. BUT I WISH TO PURCHASE A LARGER SET WITH ULTRA-HIGH FREQUENCY BAND. HOWEVER, MY SERVICE MAN TELLS ME THAT IN THE VERY LARGE SETS SOME OF THE TUBES ARE UNNECESSARY AND THAT ONE CAN OB-

TAIN EQUALLY SATISFACTORY RESULTS WITH A SET OF LESS TUBES. PLEASE TELL ME IF THIS IS TRUE, AND WHAT YOU CONSIDER AS A PROPER NUMBER OF TUBES TO USE.—H. G. S.

Your service man is correct when he says that the larger sets have some tubes that are not needed actually to pick up and tune in distant stations. Even in the larger sets, the circuit now days seems to employ but one radiofrequency tube, and seldom more than two. Then, after a mixer, there are two or three intermediate-frequency amplifiers, and another detector. One or two audio tubes, powerful amplifiers, complete the circuit. This, in our opinion, provides an excellent set of nine tubes. Now, when you add more tubes, you improve tone and volume of sound by giving more paths for the audio currents to flow to the speaker without distortion. sides the really essential tubes, you will find special tubes, such as beat note oscillators, electric tuning eyes, etc. A modern receiver of 11 tubes makes a very fine instrument; it has sensitivity, selectivity and fine tone. The 15-tube set can do little more except improve upon the volume and tone. They do, however, provide excellent tone, and we must not overlook this when thinking, perhaps, that the 15 tube set is more than provide excellent tone, and we must not overlook this when thinking, perhaps, that the 15 tube set is more than we need. In some sets, employing 18 and 20 tubes, special consideration and design is given to sensitivity and long distance reception. Any good receiver, advertised widely and sold in every city and town, is a good buy. Nine tubes will give great satisfaction;

eleven tubes will provide almost everything possible in D-Xing; and 15 tubes will give tremendous volume, and fine tone in addition. Sets having the ultra-high frequency band are more or less experimental. More or less consistent reception will be found on 20 meters; but on the utra-high frequencies, such as ten meters and below, reception is often unreliable. Certain 10-meter work is possible under conditions which occur only in spells, and the 5-meter and lower bands are limited to the range of human vision. in general, and quite local in their scope.

Amateur Band Poor

I have a Midwest, 1937, receiver that tunes down to 9 meters. I get good reception on all but the 20-meter band. I think it ought to be much better. The switch seems to be good, for the 10-meter band on the same circuit comes in nicely.—J. W. N.

Failure to receive on a certain wave band may be due to some defect in the coils and parts which tune that specific band. If reception is good on 10 meters, this shows that the set is sensitive in its pre-selecting circuits. It may be that you have an oscillator tube that fails to produce the proper frequency when tuned against the 20meter signal, but which works well at other frequencies. There is a vast difference between the 10 and 20-meter frequencies. Try several new oscillator tubes before discarding this belief. Make certain that the contacts in the band switch are very clean and tight. Other than this, you will have to look into the 20-meter coils in the radiofrequency and first detector circuits; replacement may be the only solution.

If your own remedies, as outlined above, fail to help, then we suggest a complete cleaning, testing and aligning of the 20-meter units and circuits by a competent service man.

Radio Meters

I understand there are meters to measure volume and static and which can be attached to a radio set. Please give some information about such meters.—W. M.

There are meters to measure the volume of a received signal, and these often are called "R" meters. We believe the meters to which you make reference are called "tuning meters", and are inserted in the output to the speaker. They sometimes are connected in the r-f circuit, and are highresistance milliammeters. The greatest swing of the needle indicates maximum signal strength, or that you have tuned the signal to complete resonance. Such meters can be procured from most radio supply houses and are easily installed by your service man. A number of readers have asked similar questions, and it is planned to publish a short article dealing with the use and installation of meters in radio receivers. This will appear in one of the forthcoming issues of RADEX.

Elevator Interference

RECENTLY I MOVED TO A BUILDING WITH ELEVATORS. I ALWAYS HAD QUIET RECEPTION WITH MY SCOTT 15 PEFORE THAT TIME. NOW I AM BOTHERED WITH CONTINUAL CLICKS FROM THE ELEVATOR EVERY TIME IT STARTS AND STOPS. I INSTALLED A TOBE FILTER, BUT THIS DOES NOT SEEM TO HELP. WHAT DO YOU ADVISE?—C. H. W.

Unfortunately, these elevator clicks, caused by severe flashes or sparks, occur when the elevator switch within the car is thrown. This trouble occurs up in the elevator head or housing at the top of the shaft where the motors are located. Heavy switches usually are installed next to the motors, and controlled remotely from the car itself. Frequently, too, the hum of the motor can be heard if your apartment is very close to the top of the shaft. While some of the interference comes intothe set through the electrical wiring of the building, a filter at your wall outlet, such as you have used, is not always satisfactory. The elecator usually is on a different circuit—a power line that is separate from the house lighting lines. The TOBE people have a number of filters which they recommend be placed at the motor where the flashes occur. This, then, prevents the generation of an electric wave that carries through the air like a radio wave. Even a good doublet, or noise eliminating antenna, might not be of great help since the antenna top would be near the elevator motors and source of interference. We suggest you write the Tobe Deutschmann Corp., Canton, Mass., and ask for prices on their filter unit suitable for this purpose. Of course, permission of the building owners and the electric company must be obtained before you can have the installation made by a licensed electrician. If other occupants of the building are also annoyed in a similar manner, this filter system will benefit them, too, and should compel them to join with you in requesting the management to take this action.

Short Wave Sets

I HAVE A ZENITH, MODEL 9S262, AND IT DOES VERY WELL. BUT WOULD

A SPECIAL SHORT WAVE RECEIVER, SUCH AS A 'SKYRIDER', GIVE ME BETTER RECEPTION? I WOULD LIKE TO D-X IN EARNEST. ALSO, I NOTICE THAT MY DIAL IS NOT DIVIDED FOR CAREFUL LOGGING OF HIGH FREQUENCIES.—H. P. R.

While you have a very good set, it, like all general purpose receivers, is limited to its selectivity on the short waves. Naturally, a specially built short-wave receiver, as long as it is a good one, will bring in many more short wave signals than a standard allwave set. The Skyrider sets are very good for this purpose, and also have a band covering the regular broadcasts. There are other short-wave sets, too, that amateurs use extensively along with the Hallicrafters. You can buy very complex and expensive sets of this latter make as well as those manufactured by National, R. C. A., and others. Some of these communications type receivers provide astonishing signal reception from all points of the world. But even then, on some amateur bands, the congestion and interference is so bad that experts have difficulty in getting signals to come through clearly. These professional sets are carefully calibrated so that you can tune in and relocate distant stations. Band spread and crystal sharpness are also features of these sets.

In your receiver, you will find a coverage of the short-wave and amateur bands, but more or less in a general way. The dial is not subdivided since the total wave band in question is spread over a very small portion of the circumference of the dial. The rapid-motion pointer, therefore, is necessary to relocate stations falling in between the printed figure on the main

dial. It becomes necessary, therefore, to estimate the probable location of a station if it has never before been located. Professional sets eliminate this guessing, and the entire scale is devoted to the band in question, thus separating stations and allowing more to be heard.

Separating Stations

I LIKE TO LISTEN TO THE SHORT WAVE STATIONS THAT BROADCAST PETWEEN 9 AND 12 MEGACYCLES. BUT MY TWO SETS, BOTH OF WHICH HAVE THREE ALL-WAVE BANDS, DO NOT HAVE SUFFICIENT SELECTIVITY TO SEPARATE POSITIVELY THE STATIONS IN THE BAND JUST MENTIONED. DO YOU KNOW OF ANY SHORT WAVE RECEIVER THAT WILL GIVE ME THE KIND OF RECEPTION I DESIRE?—G. A. A.

We do not see why the two sets you have mentioned can not separate the short wave stations between 9 and 12 megacycles in the way you wish. However, there will be some stations in this band that will interfere, and some you probably never will hear, because radio sets of this kind will never equal those special short wave receivers made particularly for short-wave station separation and amplification. The average all-wave set will bring in many far distant short wave stations, it is true, and this is about what the average radio fan desires. The set, therefore, serves its purpose very well, and brings in the most popular of the foreign stations when reception conditions are good and the proper type of antenna is utilized. To improve on this the commercial type of short wave set is needed. There are a number of makes, and some are quite expensive. They do afford much entertainment on the short waves and bring in excellent amateur reception. A query somewhat similar to yours has already been answered in this issue, and it is obvious that we cannot undertake to recommend any one set. You will do well, however, to consult the advertisers in RADEX.

Antenna Transformer

I have a Duplex antenna 33 feet high and each section is 24 feet long. Should a transformer be installed in this antenna and at the set? None came with the kit. My radio is a Knight 8-tube set.—H. R.

In many cases a duplex or doublet antenna works best if it is matched to the input coils of the receiver through a set of matching transformers. At least one transformer is furnished for use at the receiver. Then, too, there are aerials that need no transformer, but they are generally well matched to the receiver. For your set we suggest an aerial made of two half sections of wire, each 30 feet long, or a total of 60 feet; a length of 60 feet of twisted transmission line (not cut, if too long); and one impedance matching transformer. These transformers may be purchased at any radio supply house at small outlay. It should improve short wave reception as well as broadcast, and tend to eliminate objectional noise.

Rotary Antenna

I HAVEN'T SPACE TO ERECT A NUM-BER OF ANTENNAS IN ORDER TO COVER ALL DIRECTIONS, SO WOULD LIKE TO PUT UP A ROTARY TYPE SO AS TO GET MAXIMUM RECEPTION ON 10 AND 20 METERS. HOW SHOULD THE ANTENNA BE ROTATED?—C. D. J.

When we get into rotatable beam antennas we are, as a rule, dealing with

transmitting problems. Also, we are likely to get into something else, such as expense, building construction and careful calculation of antenna, feeders or leadin and reflectors. There are a number of types of rotatable beam antennas. We feel that for ordinary reception, the use of the rotating aerial is unnecessary, and that and good stationary type will do the work. However, you can build one of the currently popular beam antennas on a large frame of light wood attached to a shaft that is rotated by a light rope and wheel. This antenna really is a loop and more of the direction finding type. For good reception we see no need for a rotating loop.

Head Phones

I WISH TO ATTACH HEADPHONES TO MY GRUNOW 1291. THE JACK WAS ATTACHED DIRECTLY TO THE OUTPUT POSTS OF THE SPEAKER WITH CONDENSERS AND RESISTORS. I WAS ABLE TO CUT OUT THE SPEAKER WITH A KNIFE SWITCH IN THE FIELD COIL OF THE SPEAKER BUT THE PHONES DO NOT WORK. CAN YOU HELP ME?—G. N.

When you place a knife switch in the field coil you cut out the speaker and seriously overload the whole set. Do not do this. But the switch can be placed in the voice coil circuit to silence the speaker. Flexible leads run from the tiny coil attached to the apex of the speaker cone to the output of the power transformer. Place the switch in one of these leads. Connect one side of the phone jack to the plate terminal of the tube socket leading to the speaker transformer through a .005 condenser. The other side of the jack goes to another .005 condenser and a 500,000 ohm variable resistor, and then the chassis of the set. In this way the headphones and the jack are entirely insulated from the chassis and the plate output of the last power tube, and no shock or short circuit can occur. There is a .005 condenser on either side of the headphones. But, why not the simple way, and try one of the phone adapters advertised in the pages of RADEX?

Silver Marshall Adjustments

I WOULD LIKE TO KNOW HOW TO ADJUST THE CONDENSERS ON MY SILVER MARSHALL 8 TUBE RECEIVER SO AS TO PREVENT LOCAL STATIONS FROM BEING HEARD ON TWO SETTINGS OF THE DIAL.—H. H.

Repeat reception has been discussed in the last few previous issues of RADEX. A complete retuning of your set is necessary. The r-f circuit must be tuned; the oscillator must track, and the detector circuit must be in accord. If the unwanted signal gets through this you will get repeat reception regardless, especially if the i-f of the set is low; about 175 kilocycles. Then the trimmer condensers on the i-f transformers must be adjusted, and this requires the use of instruments and a separate oscillator for careful adjusting. Such work is best performed by a capable service man.

Universal DX Club Corner



THE Universal DX Club's pet mascot, "Pooky", again presents a prize-winning letter from a RADEX reader. This, you will agree, is a revolutionary step in the field of DX and one that deserves serious consideration. The writer is the Secretary of a new but rapidly growing club in the state of Washington, the International Listeners' Association, located in the town of Dryden. Read what he says and then, whether or not you belong to any of the clubs mentioned, write to him and give him your suggestions or comments. His address: Merton M. Hiatt, Dryden, Wash.

A Consolidated Pacific Coast DX Club?

"The question of a Consolidated DX Club for the Pacific Coast has arisen, and through this RADEX column I hope to be allowed to discuss it with readers everywhere.

"First of all, the cooperation of the DX clubs now active on the West Coast would be absolutely necessary. Those involved would be the Universal Radio DX Club, the Before Breakfast DX Club, the Quixote Radio Club, and a recent addition to the constantly growing list, the International Listeners' Association. As secretary of the ILA, I can promise full cooperation with the officers of the other clubs, and Stanley LaRue, who is president of the BBDXC, has endorsed the proposition as being a good one, and worthy of deep consideration.

"As things stand at present, none of the present clubs is operating at a profit, one reportedly at a loss. It is only logical that a combination of the four could operate for less than the combined operating costs of the four clubs. Probably the cost would not run over the present expense of operating two of the clubs.

"Now, it is physically impossible

for any one club to cover completely the entire field of radio and we find many DX fans enrolled in several different clubs in order that they may not miss anything important. With the combined talents of the staffs of the present clubs, it should be possible to cover the field concisely and completely. In case a person is a member of more than one of the four clubs, his membership could be extended to cover the sum of the present memberships. It would also reduce the financial burden on the members at large, making necessary the paying of dues to but one organization.

"The consensus of opinion seems to be that each of the clubs should be equally represented on a board which would control the activities and form the policies of the Consolidated Club. I believe that if three out of the four clubs agree to consolidation the plan could be successfully completed, even though the fourth may decide to hold out for a time.

"I invite members of any of the clubs which would be included in the proposed Consolidated Club to write me, giving their opinions and views, and any suggestions for making it a success and, of course, comments from non-members will be equally valuable."

"Pooky" thinks you've got something there, Mert. And don't overlook the fact that if this plan is successful the Eastern clubs may recognize the value of the plan and—who knows?—it may lead eventually to the organization of one Consolidated Club for the whole United States!



The International Listeners' Association, a new club with headquarters at Dryden, Wash., announces a contest for its members. The contest started on September 1st, and will continue for one year, until 2400 GMT, September 1, 1939. The object of the contest is to collect as many verifications from radio stations, on all bands, as possible, and points will be awarded on a mileage basis. The International Listeners' Association informs us that the prizes to be awarded will be announced soon.

The Detroit Chapter of the International DXer's Alliance sponsors a program called "The SWL Chatterbox" on station W8XWJ, ultra high frequency auxiliary of WWJ. This program is radiated on 41 megacycles on Thursdays at 11:30 pm, EST.

The World Friendship Society of Radio Amateurs, founded in London in 1935, announces that Duane Magill, W9DQD, 730 N. 6th St., Grand Junction, Colo., has been appointed Secretary for the United States. Particulars of this organization can be obtained from Mr. Magill.

The Cleveland Radio Club now meets twice a month. On the first Sunday of every month, meetings are held at the New Amsterdam Hotel at 2 o'clock in the afternoon, and on the third Wednesday of each month, the gatherings are held at the home of one of the members, at 7:30 in the evening.

WHAT'S ON THE AIR TONIGHT

fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

Network	Stations
Columbia (C)	
Mutual (M)	
National Blue (B)	
National Red (R)	

Time: E-Eastern; C-Central; M-Mountain; P-Pacific. For Daylight Time, add one hour to Standard Time.

While these programs are correct at the time of going to press, changes are made very frequently.

To learn which stations broadcast the various metwork programs in your locality, look up your own, or neighboring, city, in the Index by Locations, commencing on page 76.

These programs were set up when Eastern Daylight Time was in effect, and converted to Eastern Standard. All the times shown, many of the stations, and some of the programs, will be revised on the first of October, but this information is not available at the time of going to press.

SUNDAY

E-10:30 am, C-9:30, M-8:30, P-7:30 C-Major Bowes' Family Entire Network except Pacific Network first half hour; full network last half hour.

E-II:30 am, C-I0:30, M-9:30, P-8:30 C—Salt Lake City Choir Available to full network. B—Radio City Music Hall To full network

E-noon, C-11:00, M-10:00, P-9:00 C-Church of the Air Available to full network

E-1:00 pm, C-Noon, M-11:00, P-10:00 B-RCA Magic Key

CBF CBL CFCF CMQ KAND KARK KDKA KDYL KECA KERN KEX KFBK KFDM KFSD KFYR KGA KGBX KGHF KGIIL KGIR KGNC KGO KGU KIDO KJR KLO KMA KMED KMJ KOA KOAM KOIL KPFA KRGV KRIS KOR KSEL KSO KSOO KTAR KTBS KTHS KTMS KVOO KWG KWK KXYZ WAGA WALA WARV WAVE WBAL WBOW WBRE WBZ WBZA WCOL WCSC WCSH WDAY WDSU WEAN WEBC WEBR WENR WFAA WFRC WFEA WFIL WLA WGAL WGBF WHAM WHK WIBA WICC WIOD WIRE WIS WJAX WJBO WKY WJDX WJTN WJZ WLEU WLW WMAL WMFF WMPS WMT WOAI WOOD WORK WOWO WPTF WREN WROL WRTD WSAN WSGN WSM WSOC WSPD WSUN WSYR WTAR WTCN WTMJ WWNC WXYZ

E-2:00 pm, C-1:00, M-Noon, P-11:00 C—Everybody's Music Available to full network

E-4:00 pm, C-3:00, M-2:00, P-1:00 R-Marion Talley, Soprano KDYL KFI KGW KHQ KOA KPO KSD KSTP KYW WBEN WCAE WCOL WCSH WDAF WDEL WEAF WEBC WFBR WGY WHO WIBA WIRE JAR WMAQ WNAC WOOD WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ

E-5:00 pm, C-4:00, M-3:00, P-2:00 R—Catholic Hour Available to full network

E-6:00 pm, C-5:00, M-4:00, P-3:00 R-Hobby Lobby; Harry Salter KPRC KSD KSTP CRM KVOO KYW WBAP WBEN WCAE WCOL WCSH WDEL WEAF WFBR WFLA WGY WIOD WGAL WGL WIAR WJAX WLW WMAQ WMBG WNAC WOAI WORK WITF WRC WSOC WSPD WTAG WTAM WTAR WTIC WWI WWNC

E-6:30 pm, C-5:30, W-4:30, P-3:30 C-Passing Parade; Oscar Bradley KLBA KLZ KRLD KTRH KTSA KTUL KWKII WABC WACO WADC WALA WBIG WBNS WBRC WBT WCA WCAU WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIRX WICC WJR WJSV WKRC WLAC WLBZ WMAS WMBR WNAC WNOX WOKO WORC WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOC WWL WWVA

E-7:00 p.m., C-6:00, M-5:00, R-Charlle McCarthy; Stroud P-4:09 Twins CFCF CRCT KDYL KEL KEYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KYW WAVE WBEN WCAE KVOO WCSH WDAF WDAY WEAF WERC WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WIDX WKY WLW WMAQ WMC WNAC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

E-8:00 pm, C-7:00, M-6:00, P-5:00

-Ford Symphony Concert CFRB CKAC KEAR KERR KEPY KGAR KGLO KGVO KIRO KLRA KLZ KMRC KMOX KNY KOH KOIN KOMA KOY KRLD KRNT KSCJ KSFO KSL KTRH KVI KVOR KWKH KTIII. KTSA WABC WBBM WBIG WBNS WBRK WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDOD WORC WEEL WEBL WEBM WGAR WGBI WGR WGST WHAS WHEC WHIO WHP WIBW WISN WINO WIAS WIR WISV WKRH WKBN WKBW WKRC WLAC WLBZ WMBR WMMN WMBD WNAX WNBX WNOX WOKO WORC WPRO WOAM WREC WRVA WSBT WSFA WTAQ WTOC WWL WWVA

R-Manhattan Merry Go-Round CFCF KDYL KFI KFYR KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WAVE WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEL WFAA WFLA WERR WGY WHO WIOD WIRE WIS WIAR WJAX WJDX WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WSB WTAR WTIC WIMJ WWJ WWNC

E-8:30 pm, C-7:30, M-6:30, P-5:30 R-Album of Familiar Music CFCF CRCT KFI KDYL KEVR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KYW WAPI WAVE WBEN WCAE WCSH WDAF WDAY WEAF WERC WEEL WFAA WIBA WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOW WPTF WRVA WRC WSB WSAI WSM WSMB WSOC WTAG WTAM WTAR WTMJ WWJ WWNC

E-9:00 pm, C-8:00, M-7:00, P-6:00 R-Horace Heidt's Brigadiers KDYL KECA KEX KFSD KGA KJR KSD KSTP KOA KYW WCAE WCSH WDAF WDEL WEAF WFBR
WGY WHO WIRE WJAR WLW
WMAQ WNAC WOW WRC WTAG
WTAM WTIC WWJ

MONDAY

E-5:45 pm, C-4:45, M-3:45, P-2:45 B-Lowell Thomas

CRCT KDKA WBAL WBZ WBZA WFLA WIOD WIAX WIZ WLW

E-6:00 pm, O-5:00, M-4:00, P-3:00

R-Amos "n' Andy
KSD KSTP KYW WBEN WCAE
WCSH WEAF WFBR WGY WHO
WJAR WHW WNAC WRC WTAG
WTAM WTIC WWJ

B-Uncle Ezra's Radio Station KARK KEYR KGBX KGNC KPRC KSTP KTBS KTBS KVOO KYW WBAP WBEN WCAE WCKY WCOL WCSH WDAF WDAY WEAF WEBC WFAA WFBR WGBF WGY WHO WIBA WIBE WJAR WKY WMAQ WNAC WOAH WOOD WOW WRC WTAG WTAM WTIC WTMJ

E-6:30 pm, C-5:30, M-4:30, P-3:30 M-The Lone Ranger WFIL WNBF WSYR WOR WXYZ

E-6:45, C-5:45, M-4:45, P-3:45 C-Boake Carter

KDAL KFAB KFH KGLO KLRA KMBC KMOX KRLD KRNT KSCJ KTRH KWKH WABC WADC WAPI WBBM WBIG WBNS WBT WCAO WCOO WCHS WCAH WDAE WDBJ WDBO WDBO WDRC WEEL WEEDA WFAM WFBL WFBM WGAT WHAS WHEC WBIO WHP WISN WJAS WJNO WJR WJSV WKBH WKBN WKRC WLAC WMBD WMBR WMFG WNAX WNOX WOC WOKO WORC WPRO WQAM WREC WRVA WTAQ WWL WWVA

E-7:00 pm, C-6:00, M-5:00, P-4:00 R-Burns and Allen

CRCT KYW WBEN WCAE WCSC CRCT KYW WBEN WCAE WCSC WCSH WEAF WFBR WFLA WGY WHO WIOD WIRE WIS WJAR WIAX WLW WMAQ WNAC WPTF WRC WRVA SOC WTAG WTAM WTAR WTIC WWI

E-7:30 pm. C-6:30, M-5:30, P-4:30 C-Pick and Pat

WBT WCAO WCAU WDRC WEAN WFBL WGR WGST WHEC WHK WHP WICC WLAS WJR WJSW WKRC WLBZ WMAS WNAC WOKO WORC WSPD

E-9:00 pm, C-8:00, H-7:00, P-6:00 C-Wayne King and Orchestra KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRNT KSL KVI KWG WAAB WABC WADC WBBM WENS WBT WCAO WCAU WCCO WDRC WEAN WFBL WFBM HAS WHK WIBW WJAS WJR WJSV WKBW WKRC WOKO WSPD WWL R-Contented Program

CFCF CRCT KDYL KFI KGW KHQ KOA KOMO KPO KPRC KSD KYW WBEN WCAE WCSH WDAF WEAF WEEI WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WTAG WTAM WTAR WTIC WWJ WWNC Also on Canadian Network

TUESDAY

E-5:45 pm, C-4:45, M-3:45, P-2:45 B-Lowell Thomas. see Monday E-6:00 pm, C-5:00, M-4:00. P-3:00 R-Amos 'n' Andy, see Monday

B-Easy Aces

KDKA KDYL KFI KGW KHO KOA KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WHIO WIRE WJZ WMAL WMT WSYR WXYZ

E-7:00 pm, C-6:00, M-5:00, P-4:00 R-Johnny Presents-

KFYR KPRC KSD KSTP KTBS KTHS KVOO KYW WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFBR WFLA WGY WIS WIAR WHO WIBA WIOD WJAX WJDX WKY WLW WMAQ WMC WNAC WOW WPTF WRC WRVA WSB WSM WSME WSOC WSUN WTAG WTAM WTAR WTIC WIMJ WWJ WWNC

E-7:30 pm, C-6:30, M-5:30, P-4:30 R-Wayne King's Orchestra KEYR KPRC KSD KSTP KTBS

KYOO KYW WAVE WBAP WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEL WFBR WGY WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOW WRC WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ

E-8:00 pm, C-7:00, M-6:00, P-5:00 R-Vox Pop; Sidewalk Interviews KSD KYW WBEN WCAE WCKY WCSH WDAF WRAF WEEL FBR WGY WHO WIRE WJAR WMAQ WOW WRC WTAG WTAM WTIC CONTRACT

E-8:30 pm, C-7:30, M-6:30, P-5:30 C-Benny Goodman's Orchestra KFAB KFH KFPY KGKO KIRO KFAB KFII KFPY KGKO KIRO
KLRA KLZ KMBC KMOX KNOW
KNX KOIN KOMA KOY KRLD
KRNT KSCJ KSFO KSŁ KTRH
KTSA KTUL KVI KVOR KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDNC WDOD WDBC WEEI WFBL WFBM WGAR WGST WHAS WHEC WILLO WILP WIBOW WIBX WISN WJAS WJR WJSY WKBB WKBN WKBW WKRC WLAC WLBZ

R-Voice of Firestone CFCF CRCT KFYR KPRC KSD
KSTP KTBS KVOO KYW WAVE
WBEN WCAE WCSC WCSH WDAF
WDAY WEAF WEBC WEEI WFAA
WFBC WFBR WFLA WGY WHO
WIBA WHOD WHRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WWW WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTIC WTMJ WWJ CECE CRCT KEYR KPRC KSD WWNC

E-9:00 pm, C-8:00, M-7:00, P-6:00

R-Believe It Or Not KANS KARK KDYL KELO KERN KEBK KEDM KEI KEYR KGBX KGNC KGW KHQ KMJ KOA KOMO KPO KPRC KSD KSTP KTAK KTBS KTSM KVOO KWG KYW WAVE WBEN WBRC WBRE WCAE WCOL WCSH WDAF WDAY WDEL WEAF WEBC WFBC WFBR WFLA WGBF WGL WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOAI WORK WOW WPTF WRC WROL WSAI WSB WSM WSMB WSOC WSI'D WSUN WTAG WTAM WTAR WTIC WTMJ WWJ

WEDNESDAY

E-5:45 pm, C-4:45, M-3:45, P-2:45 B-Lowell Thomas, see Monday

E-6:00 pm, C-5:00, M-4:00, P-3:00 B-Easy Aces, see Tuesday R-Amos 'n' Andy, see Monday

E-6:30 pm, C-5:30, M-4:30, P-3:30 M-The Lone Ranger WAAB WKBW WNBF WOL WSYR WOR WXYZ

E-6:45 pm, C-5:45, M-4:45, P-3:45 C-Boake Carter, see Monday

E-7:00 pm, C-6:00, M-5:00, P-4:00 R-One Man's Family

CBL KDYL KOA KPRC KSD KSTP KVOO KYW WAVE WBAP WBEN WBRC WCAE WDAF WDEL WEAF WERC WEBR WELA WGY WHAM WIIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMDG WMC WNAC WOAI WOW WRC WSAN WSB WSM WSMB WSOC WSUN WSYR TAG WTAM WTAR WTIC WTMJ WWJ WWNC

E-7:30 pm, C-6:30, M-5:30, P-4:30 C-Paul Whiteman's Orchestra KFAB WABC WADC WAIM WBBM

WBIG WBNS WBT WCAO WCAU WCHS WDAE WDBJ WDBO WDSC WEET WFAM WFBL WGAR WGBI WGH WGST WHEC WHO WHP WHEX WJAS WJNO WJR WJSV WKBB WKRC WLBZ WMAS WMBR WMMN WNBF WNBX WOKO WORC WPAR WPG WPRO WQAM WRVA WSJS WTOC

R-Tommy Dorsey's Orchestra KARK KPRC KSD KSTP KTBS KYW WAVE WBEN WBRC WCAE WCSH WDAF WDEL WEAF WFAA WFBR WFLA WGY WHO WIRE WIS WJAR WJAX WHO WIOD WKY WLW WMAQ WMBG WMC WOOD WOW WPTF WRC WNAC WSR WSM WSMB WSOC WSUN WTAG
WTAM WTAR WTIC WTMJ WWJ WWNC

E-9:00 pm, C-8:00, M-7:00, P-6:00 -Kay Kyser's Orchestra KANS KARK KDYL KERN KFBK KFI KFYR KGBX KGHL KGIR

KGNC KGU KGW KHQ KIDO KMJ KOA KOB KOMO KPFA RPO KPRC KSD KSEI KSTP KTAR KTES KTHS KTSM KVOO KWG

KYW WAVE WBEN WBRC WCAE WCSC WCSH WDAF WDAY WDEL WEAF WEBC WFAA WFBC WFBR WEAF WEBE WFAA WIR WIR WHO WIFA WILA WGL WGY WHO WIFA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAG WMEG WMC WNAC WOAL WOOD WORK WOW WPTF WRC WSB WSM WSMB WSOC WSUN WTAG
WTAM WTAR WTIC WTMJ WWJ WWNC

E-9:30 pm, C-8:30, M-7:30. P-6:30 C—Edgar Guest; Frankie Masters KFAB KMBC KMOX KRNT WABC WEBM WBNS WCAO WCAU WCHS WDRC WEEL WFBL WFBM WHAS
WHEC WHIO WIBX WJAS WJR
WKBW WKRC WMAS WNR WOC WOKO WORC WPRO

E-10:30 pm, C-9:30, M-8:30, P-7:30 C-Paul Whiteman's Orchestra KDAL KFBB KFH KFPY KGAR KGLO KGVO KIRO KLRA KLZ KMOX KNOW KNX KOH KOIN KOMA KOY KRLD KRNT KSCJ KOMA KOY KRLD KRNT KSCJ KSFO KSL KTRH KTSA KTUL KVI KVOR KWKII WACO WAPI WCCO WCOA WCOC WDOD WFBM WHLB WIBW WIBW WHAS WISN WMRD WNOX WOC WREC WSFA WTAQ wwi.

M—The Lone Ranger KALE KDB KDON KFRC FFXM KGB KGDM KHJ KPMC KQW KSLM KVOE KXO

THURSDAY

E-5:45 pm, C-4:45, M-3:45, P-2:45 B-Lowell Thomas, see Monday

E-6:00 pm, C-5:00, M-4:00, P-3:00 R—Amos 'n' Andy, see Monday B—Easy Aces, see Tuesday

E-6:45 pm, C-5:45, M-4:45, P-3:45 C-Boake Carter, see Monday R-Rudy Vallee's Hour

E-7:00 pm, C-6:00, M-5:00, P-4:00

KDYL KFI KGW KHQ KOA KOMO KPO KPRC KSD KSTP KVOO KYW WAVE WHAP WHEN WHIC WCAE WAVE WBAP WBEN WBRC WCAE
WCSH WDAF WDEL WEAF WEBC
WFAA WFBR WFLA WGY WHO
WIBA WIOD WIRE WJAR WJAX WLW WMAQ WMBG WMC WOAI WRC WSB WSM WSM WSMB WTAG WTAM WTIC WTMJ WWJ

E-8:00 pm, C-7:00, M-6:00, P-5:00 C-Major Bowes' Amateurs CFRB CKAC KFAB KFBB KFPY KGAR KLEA KLEZ KMBC KMOX KNOW WNX KOIN KOMA KOY KRLD KRNT KSCJ KSFO KSL KTRH KTSA KTUL KVI KVOR KWKH WABC WACO WADC WAPI WBBM WBIG WENS WBT WCAO
WCAU WCCO WCHS WCOA WDAE
WDBJ WDBO WDNC WDOD WDRC WEEI WEOA WFBL WFBM WGAR WGB! WGST WHAS WHEC WHIO

WHP WIBW WIBX WISN WJAS WJNO WJR WJSV WKBH WKBN WKBW WKRC WLAC WLBZ WMAS WMBR WMMM WMBD WNOX WOC WOKO WORC WNBF WPAR WPG WPRO WQAM WREC WRVA WSFA WSJS WTAQ WTOC wwr.

E-9:00 pm, C-8:00, M-7:00, P-6:00 E-9:00 pm, U-8:00, m-2 R-Bing Crosby; Bob Burns CBF CBL CBM KARK KDYL KFI KGHL KGIR KGW KHQ KOMO KPFA KPO KPRC KSD KTAR KTRS TRS KVOO KSTP KYW WAVE WBAP WBEN WBRC WCAE WCSH WDAF WDEL WEAF WEBC WFBC WFBR WFLA WGY WHAM WHO WIBA WIOD WIRE WHAM WHO WIBA WIDD WIS WJAR WJAX WJDX WLW WMAQ WMBG WMC WOAI WOW WPTF WRC WSB WSM WSMB WSOC WKY WNAC WROL WSYR WTAG WTAM WTAR WTIC WTMJ

FRIDAY

E-5:45 pm, C-4:45, M-3:45, P-2:45 E-6:30 pm, C-5:30, M-4:30, P-3:30 B—Lowell Thomas, ee Monday B—Uncle Jim's Question Bee

E-6:00 pm, C-5:00, M-4:00, P-3:00 R-Amos 'n' Andy, See Monday

E-6:15 pm, C-5:15, M-4:15, P-3:15 R-Uncle Ezra, See Monday

E-645 pm, C-5:45, M-4:45, P-3:45 C-Boake Carter, See Monday

E-7:00 pm, C-6:00, M-5:00, P-4:00 R-Cities Service Concert CRCT CFYR KOA KPRC KSD KSTP KTBS KTHS KVOO KYW WBAP WBEN WCAE WCSH WDAF WBAP WBEN WCAE WCSH WDAF WBAY WEAF WEBC WEEL WFAA WFBR WGY WHO WIBA WIOD WJAR WKY WMAQ WOAI WOW WTIC WTWA WSAI WTAG WTAM WTIC WTMJ WWJ

E-8:00 pm, C-7:00, M-6:00, P-5:00 B-George Oison's Orchestra KDKA KFEL KLO KOIL KPRC KSO WTAR WTBS KVOO KWK WABY WAVE WBAL WBRC WBZ WBZA WCSC WEAN WEBC WEBR WFAA WFBC WFIL WFLA WHAM WILK WICC WIOD WIS WJAX WHK WICE WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMAL WMC WMT WOAI WOWO WPTF WHEN WHOL WHOL WSH WSM WSOC WSPD WSUN WYR WTAR WTNC WWNC WXYZ

R-Frank Munn; Abe Lyman KSD KYW WBEN WCAE WCSH WDAF WEAF WEEI WFRR WGY WIAR WLW WMAQ WOW WRC WTAG WTAM WWJ

E-8:30 pm, C-7:30, M-6:30, P-5:30 B—The March of Time KDKA KECA KERN KFBK KFEL KFSD KGA KGO KJR KLO KMJ KOIL KSO KWG KWK KXYZ WABY WAGA WBAL WBZ WBZA WCKY WCOL WCSC WDSU WEAN WEBR WFIL WHAM WHK WICC WJZ WLS WMAL WMPS WREN WSPD WSYR WXYZ B-Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WFIL WGAR WHAM WJZ WLS WLW WMAL WMT WREN WSYR WXYZ

E-9:00 pm, C-8:00, M-7:00, P-6:00 R-First Nighter; Drama KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPIR WSD KSTP KOMO KPO KPIRC WSD KSTP KTBS KTHS KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WHA WIOD WIS WIAR WJAX WJDX WKY WLW WMAQ WMC WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

SATURDAY

B-Uncle Jim's Question Bee WBZ WBZA WGY WJZ

E-8:00 pm, C-7:00, M-6:00, P-5:00 B-National Barn Dance

KDKA KOIL KPRC KSO KTBS KTHS KWK WABY WAPI WAVE WBAL WBAP WBZ WBZA WFIL WFLA WHK WHAM WIOD WIRE WIS WJAX WJDX WJZ WKY WLS WMAL WMC MMT WOAI WOOD WPTF WREN WRVA WSB WSMB WSOC WSUN WSYR WTAR WWNC WXYZ

C-Prof. Quiz KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSL KTRII KTSA
KYI KWG WABC WBBM WBNS
WBT WCAO WCAU WCCO WDAE WDBO WDRC WEAN WFBL WFBM WJAS WJR WJSV WKBW WKRC WMBR WOKO WQAM WREC WSPD WWL.

E-9:00 pm, C-8:00, M-7:00, P-6:00 C-Your Hit Parade

KERN KFAB KFBK KFH KEPY KERIN KFAB KFBK KFII KEPT
KFRC KGB KGKO KGMB KHI
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG KBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WIK WHP WIBW WIRX WHK WHP WIBW WIBX WISN WJAS WJR WJSV WHEC WKBW WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WNAC WNAX WNOX WOC WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC WWL WWVA

The Shortwave Index

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The shortwave broadcasting stations of
                                          4107
                                                 1000 HCIB2
                                                               Ouito, Ecuador
                                                               Khobarovsk, U.S.S.R.
                                          4273
                                                20000 RW15
the world are shown in the index which
                                          4420
                                                  300 ZMB1
                                                               s.s. Atwatea
follows. Broadcasting stations which are
easily received in the United States are
                                          4600
                                                  300 HC2ET
                                                               Guayaguil, Ecuador
                                                  750 YDU2
                                                               Medan, Sumatra
listed in "Twenty Stentors," on another
                                          4710
                                                      H J6ABC Ibague, Colombia
page. The North American Police Broad-
                                          4740
                                                   50 HJ1ABJ Santa Marta.
casters were indexed in the September is-
                                          4760
                                                               Colombia
sue.
                                                  300 HJIABB Barranquilla,
                                          4780
1615
        15 YDB4
                    Tjepoe, Java
                                                               Colombia
                    Bandoeng, Java
1630
       150 YDD2
                                                  250 HJ7ABC Cucuta, Colombia
                                          4787
1640
        25 YDA3
                    Buitenzorg, Java
                                                 1000 HI1ABE Cartagena, Colombia
                                          4800
        25 YDB3
                    Djokjakarta, Java
1660
                                          4810
                                                  150 YDL2
                                                               Solo, Java, N. E. I.
                    Soerabaja, Java
1840
        15 YDO5
                                          4840
                                                 1000 H I 3 ABD Bogota, Colombia
1850
        25 YDU5
                    Padang, Sumatra
                                          4865
                                                  250 YDG5
                                                               Batavia, Java,
        50 YDK6
                    Semarang, Java
1860
                                                               N. E. I.
       100 YDG6
                    Batavia, Java
1900
                                                 2500 HI4ABP Medellin, Colombia
        20 YDH9
                    Buitenzorg, Java
                                          4880
1920
                     Bandoeng, Java
                                          4895
                                                  150 YDP3
                                                               Sourabaya, Java,
1960
       100 YDH8
                                                               N. E. I.
1980
        30 YDO8
                    Soerabaja, Java
                                          5000 10000 VD2
                                                               Delhi, India
        30 YDH5
                    Garoet, Java
2080
                                                               Guayaquil, Ecuador
                    Batavia, Java
                                                  ... HCT
        30 YDG3
                                          5003
2090
                                                               Praha, Czecho-
                                                  ... OK1MPT
                    Soekaboemi, Java
                                          5145
2110
        20 YDI2
        25 YDE5
                    Diokiakarta, Java
                                                               slovakia
2350
                                                 1000 PMY
                                                               Bandoeng, Java,
       150 YDA2
                                          5146
2385
                    Batavia, Java
                                                               N. E. I.
       150 YDA5
                    Bandoeng, Java
2415
                                                               Haiphong, French
                    Semarang, Java
                                                   15 ...
2450
       150 YDB2
                                          5350
        25 YDE2
                   Solo, Java
                                                               Indo-China
2500
                                          5735
                                                      HC1PM Ouito, Ecuador
        25 YDE3
                    Samarang, Java
2710
                                                 1000 YV2RA San Cristobal,
                                          5755
2730
        75 YDO6
                    Soerabaja, Java
        50 YDH7
                    Bandoeng, Java
                                                               Venezuela
2790
                                                      YNOP
                                                               Managua, Nicaragua
                                          5738
        25 YDQ6
                    Malang, Java
2810
                                                      TI8WS
                                                              Puntarenas, Costa
                                          5770
        25 YDA6
                    Cheribon, Java
2870
                                                               Rica
        18 YDO5
                    Malang, Java
2950
                                                      TIGPH2 San Jose, Costa Rica
3040 10000 YDA
                    Batavia, Java
                                          5813
                                                      TIGPH San Jose, Costa Rica
                    Bandoeng, Java
                                          5825
        40 YDH6
3130
                                                      TIXGP3 San Jose, Costa Rica
                    Soerabaja, Java
3158
       150 YDE4
                                                  300 YV1RB Maracaibo,
                                          5850
        30 YDK2
                    Semarang, Java
3190
                                                               Venezuela
                    Malang, Java
        30 YDO4
3230
                                                   40 HI1J
                                                               San Pedro de
                    Pekalongan, Java
                                          5855
        15 YDA7
3270
                                                               Macoris, D. R.
                    Soerabaja, Java
3290
        50 YDO3
                                                  500 HRN
                                                               Tegucigalpa,
        70 YDG4
                    Batavia, Java
                                          5875
3300
                                                               Honduras
3305 10000 VUB2
                    Bombay, India
                                                               Salisbury, Southern
                                                  325 ZEA
                    Bandoeng, Java
                                          5882
        30 YDH4
3320
                                                               Rhodesia
        50 YDK5
                    Semarang, Java
3380
                                                               Santiago de los
        20 YDH2
                    Tjimahi, Java
                                          5885
                                                  200 HI9B
3390
                                                               Caballeros, D. R.
        45 YDL4
                    Djokjakarta, Java
3410
                                                      YV3RA
                                                               Barquisimeto,
        30 YDP2
                    Soerabaja, Java
                                          5895
3430
                                                               Venezuela
       220 YDL3
                    Solo, Java
3450
                                                               Mafeking, Bechuana-
                                                  250 ZNB
       600 CR7AA
                    Lourenco Marques
                                          5900
3490
                                                               land
3490 10000 VUD2
                    Delhi, India
                                                               San Jose, Costa Rica
                                          5905
                                                      TILS
       200 YDH3
                    Bandoeng, Java
3492
                                                      YV4RH Valencia, Venezuela
             CT2AJ Ponta Delgada,
                                          5913
4002
        50
                                                  ... HH2S
                                                               Port-au-Prince, Haiti
                    Azores
                                          5925
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5935	300	YV1RL	Maracaibo, Venezuela	6050	20000		London, England Pereira, Colombia
5940	150	PJC1	Willemstad, Curacao	6057		ZHI	Penang, Fed. Malay
5945	200	TG2X	Guatemala Cit, Guat.	0077	• • •	2211)	States
5969	15000		Vatican City	6060		VO7LO	Nairobi, Kenya
5970			Caracas, Venezuela				Philadelphia, Pa.
5975			Huancayo, Peru				Cincinnati, Óhio
5977			Lisbon, Portugal				Tananarive,
		VUD2	Delhi, India				Madagascar
6000	2000	CXA2	Montevideo, Uruguay	6065		SBO	Stockholm, Sweden
	90	FJP	Ste. Denis, Reunion		100	XEXR	Mexico City, D. F.,
		RV59	Moscow, U. S. S. R.	6070	50	LII2 A RE	Mexico Bogota, Colombia
		XEBT	Mexico City, D. F.	0070			Georgetown, Brit.
6005		CFCX	Montreal, P. Q.		170	VI JIVIK	Guiana Guiana
	200	HP5K	Colon, Panama			YV1RD	Maraçaibo,
			Montreal, P. Q.				Venezuela
		O XYO	Rangoon, Burma	6075	250	XECU	Guadalajara, Jal.,
6007	500	O ZRH	Pretoria, U. of So.				Mexico
(010	100	CICY	Africa				Lima, Peru
6 010	100	O CJCX	Sydney, N. S., Canada	6080	50000		Berlin, Germany
	1000	coco	Havana, Cuba			HP5F	Colon, Panama
			Praha, Czecho-		10	VE9CS	Vancouver, B. C., Canada
	370		slovakia		20000	W/oX A A	Chicago, III.
	5000	PRA8	Recife, Brazil				Mexico City, D. F.
6012	400	ZHO	Singapore, St. Settle-	6085			Cali, Colombia
			ments		10000	VUB2	Bombay, India
6015	125	HI3U	Santiago de los			ZHP	Singapore, St. Settle-
	1000	LI I 2 A DV	Caballeros, D. R. Bogota, Colombia	4			ments
6015		XEWI		6 0 8 7		VU7MC	Akash-Vani, Mysore,
	50000		Berlin, Germany	6090		LII (ADC	India Ibague, Colombia
6022		XEUW		0090		TPB15	Paris, France
			Mexico			XEBF	Jalapa, Ver., Mexico
6030	100	HP5B	Panama City,			ZBW2	Hong Kong
		o	Panama	6095		ZGE	Kuala Lampur, Fed.
	35000	OLR2B	Praha, Czecho-				Malay States
	• •	MEODI	slovakia St. John, N. B.,	6096			Tananarive,
	50	VE9BJ	Canada		200	7D I	Madagascar
	20	VEOC A	Calgary, Alta.,	6 097	200	ZRJ	Johannesburg, Union
	50	VESCA	Canada		5000	ZRK	of So. Africa Capetown, Union of
	100	XEBQ	Mazatlan, Sin.,		2000	ZIG	So. Africa
	100	AEDQ	Mexico	6100	35000	W3XAL	Bound Brook, N. J.
6040	25000	TPB16	Paris, France			W9XF	Chicago, Ill.
0010			Boston, Mass.		1000	YUA	Belgrade, Jugoslavia
			Miami, Fla.				Noumea, New
		W4XB	· .			111/400	Caledonia
	10000	YDA	Tandjong Priok, Java, N. E. I.	6108			Manizales, Colombia
(0.15		111. ADC		6110		GSL VUC	London, England Calcutta, India
6042	150	njiABG	Barranquilla, Colombia			XEGW	Mexico City, D. F.
6044		ZP14	Villarrica, Paraguay	6115			Praha, Czecho-
6045			Tampico, Tams.,	011)	9,5000	OLM2C	slovakia
004)	100	ALL W	Mexico	6120	10000	W2XE	New York, N. Y.
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6122	25	FK8AA	Noumea, New Caledonia	6357	ŧ	HRP1	San Pedro Sula, Honduras
6125			Panama City, Panama	6360	250	YV1RH	Maracaibo,
		KZIB LYZ	Maniła, P. I. Kaunas, Lithuania	6375		YV5RF	Venezuela Caracas, Venezuela
6128			Cuzco, Peru	6384			Basseterre, St. Kitts
6130	350	COCD	Havana, Cuba	6385		HI8J	Las Vegas, D. R.
		LKJ	Oslo, Norway	6400		-	Caracas, Venezuela
		VE9HX XEUZ	Halifax, N. S.	6410	1000	TIPG	San Jose, Costa Rica
6132		VP3BG	Mexico City, D. F. Georgetown, Brit.	6416		YV6RC	Bolivar, Venezuela
			Guiana	6420	20	HIIS	Santiago de los
6137	300	CR7AA	Lourenco Marques,	6425	5000	Wayce	Caballeros, D. R. Hicksville, N. Y.
			Port. E. Africa				
		W8XK				W3XL	Bound Brook, N. J.
6145			Medellin, Colombia	6430		TGQA	Quezaltenango, Guat.
		TPB14	Paris, France	6450	25	HI4V	San Fransisco de
6147	1.1	ZEB	Bulawayo, Southern				Macoris, D. R.
			Rhodesia	6465		YV3RD	Barquisimeto,
6148	200	ZRD	Durban, U. of So.				Venezuel
_			Africa	6485		HI1L	Santiago de los
6150		CJRO	Winnipeg, Man.	6500	50	HIL	Caballeros, D. R. Ciudad Trujillo,
		HI5N	Moca, D. R.	6) 0 0	70	TIL	D. R.
	300	VPB	Colombo, Ceylon			VVIDM	Maracaibo,
6158	* * *	YVSKD	Caracas, Venezuela Bizerte, Tunisia			IVIKM	
6165		1.1.1					Venezuel
6174		XEXA	Mexico City, D. F.	6508		3.5.5	"Guardia Civil,"
6190	50	HI1A	Santiago de los			*****	Tetuan, Sp. Morocco
			Caballeros, D. R.	6510		YNIGG	Managua, Nicaragua
6200	50	COKG	Santiago, Cuba	6520		YV4RB	Valencia, Venezuela
	100	XEXS	Mexico City, D. F.	6545	200	YV6RB	Bolivar, Venezuela
6205	200	HI8Q	Ciudad Trujillo,	6550	500	TIRCC	San Jose, Costa Rica
			D. R.	6555		HI4D	Trujillo, D. R.
	150	YV1RI	Coro, Venezuela	6565		HI5P	Puerto Plata, D. R.
	250		Saigon, French	6575		HC1VT	Ambato, Ecuador
			Indo-China	6590		COCU	Havana, Cuba
6210	200	TG2	Guatemala City,	6600	25	HI6H	Ciudad Trujillo,
		_	Guat.				D. R.
6225		YV1RG	Valera, Venezuela	6610	1000	YNLG	Managua, Nicaragua
6235	250	HRD	La Ceiba, Honduras	6622	2000	PRADO	Riobamba, Ecuador
6243	740	HIN	Ciudad Trujillo,	6630	200	HIT	Trujillo, D. R.
05	,		D. R.	6638	200	HC2RL	Guayaquil, Ecuador
6250		YV5RJ	Caracas, Venezuela		18000	HBQ	Geneva, Switzerland
6270		YV5RP	Caracas, Venezuela	6690		TIEP	San Jose, Costa Rica
6282		СОНВ	Sancti-Spiritus, Cuba	6727		PMH	Bandoeng, Java,
6285		HIG	Ciudad Trujillo,	0,-,	2,00		N. E. I.
020)	170	mo	D. R.	6 730	1.2	HI3C	La Romana, D. R.
6295	400	OAX49	Lima, Peru	6780		HIH	San Pedro de
6300			Maracay, Venezuela				Macoris, D. R.
6310		HIZ	Ciudad Trujillo,	6790	25	PZH	Paramaribo, Surinam
0)10	100	1112	D. R.	6800	25	HI7P	Ciudad Trujillo,
6312	1000	ZP14	Villarrica, Paraguay				D. R.
				6850	400	TIOW	Puerto Limon, Costa
6330			Havana, Cuba			E 4 0 4 3 5	Rica
6335			Chiclayo, Peru	6996			Tetuan, Sp. Morocco
6340	500	H11X	Trujillo, D. R.	6090	200	FO8AA	Papeete, Tahiti

7000 7006	60	EA1AV EAR4M	San Sebastian, Spain Madrid, Spain		80000	PLV	Bandoeng, Java, N. E. I.
7027			(Loyalist) Vitoria, Spain	9437 9445		COCH HC2RA	Havana, Cuba Guayaquil,Ecuador
7070		EA1BO	(Franco)	9470	150 20000	PJC1	Willemstad, Curacao Madrid, Spain
7100	300	FET5	(Franco) Burgos, Spain	9490		OAX5C XTV	Ica, Peru Canton, China
7125	145	FET6	(Franco) Palma de Mallorca,	9500		HJ1ABE	Cartagena, Colombia Melbourne, Australia
7147	40	FET	Spain (Franco) Las Palmas, Spain		10000	XEWW	Mexico City, D. F. Lahti, Finland
7168	145	FET6	(Franco) Palma de Mallorca,	9501	60000		Rio de Janeiro, Brazil
7177	1000	CR6AA	Spain (Franco) Lobito, Angola	950 3			Tananarive, Madagascar
7200	200 20	EA2BA EAME	Jaca, Spain (Franco) Melilla, Spain	9504	35000	OLR3B	Praha, Czecho- slovakia
	75	EA1BH	(Franco) Pentevedra, Spain	9510	250 20000	0 CXA8 GSB	Colonia, Uruguay London, England
	100	EA8AE	(Franco) Las Palmas, Spain		1000	HJU	Buenaventura, Colombia
7203	1000	EAJ8	(Franco) San Sebastian, Spain (Franco)			HS8PJ	Bangkok, Siam Hanoi, French
730 0		VIG XECR	Port Moresby, Papua Mexico City, D. F.	9520	1000	НЈ6АВН	Indo-China Armenia, Colombia
7410	1.1.	HJCB4 YDA	Quito, Ecuador		500 6000	OAX4J OZF	Lima, Peru Copenhagen,
7500		XGOY	Batavia, Java, N. E. I.			TPB13	Denmark Paris, France
7540		RKI	Kunming, China Moscow, U. S. S. R. Geneva, Switzerland			XEDQ XEDQ	Guadalajara, Jal. Guadalajara, Jal.,
7854 7870	150	HC2JSB	Guayaquil, Ecuador Quito, Ecuador			YSH	Mexico San Salvador, El
7894		YSD	San Salvador, El Salvador	9523		LYZ2	Salvador Kaunas, Lithuania
8580 8640		YNPR H 14A BI	Managua, Nicaragua Medellin, Colombia	0525		ZRH	Pretoria, U. of So. Africa
8665 8820	2400	COJK HCJB	Camaguey, Cuba Quito, Ecuador	9525 9530	1000	BW3 LKC	Hong Kong Oslo, Norway
9330 9100		COBZ COCA	Havana, Cuba Havana, Cuba		20000	W6XBE	Schenectady, N. Y. Belmont, Calif.
	20000	HAT4	Budapest, Hungary Quito, Ecuador	0525		ZHP	Singapore, St. Settlements
9200 9250		COBX	Havana, Cuba Guayaquil, Ecuador	9536		VPD2	Tokyo, Japan Suva, Fiji
9300	250	HIG	Ciudad Trujillo, D. R.		50000 35000		Berlin, Germany Praha, Czecho- slovakia
9345		YNGU HBL	Managua, Nicaragua Geneva, Switzerland			TPB12	Paris, France
9350		HS8PJ XTR	Bangkok, Siam Canton, China		20	W2XAD XEFT	Schenectady, N. Y. Veracruz, Ver.,
			Fort de France, Martinique		1000		Mexico Sourabaya, Java, N. E. I.
9415	•••	PJC2	Willemstad, Curacao	9560	50000		Berlin, Germany

			Lima, Peru	10 6 00		ZIK2	Belize, Brit.
		VUB2	Bombay, India				Honduras
9570		KZRM	Manila, P. I.	11000	1500	PLP	Bandoeng, Java,
	25000	TPB11	Paris, France				N. E. I.
	10000	W1XK	Boston, Mass.	11040	5000	CSW2	Lisbon, Portugal
9580	20000	GSC	London, England	11402	18000	HBO	Geneva, Switzerland
	5000	VLR	Melbourne, Australia	11435		COCX	Havana, Cuba
9585	25000	TPB10	Paris, France	11535		SPD	Warsaw, Poland
9590			Panama City,			CB1170	Santiago, Chile
,,,,	2000	//	Panama City,	11700		HP5A	
	20000	PC1	Huizen, Netherlands		-		Panama City, Panama
			Sydney, Australia		250	• • •	Saigon, French
						222	Indo-China
			Perth, Australia	11705		SBP	Stockholm, Sweden
		VUD2	Delhi, India	11710		YSM	San Salvador, El
		W2XE	New York, N. Y.				Salvador
	10000	W3XAU	Philadelphia, Pa.	11713		TPA4	Paris, France
	18000		Geneva, Switzerland	11718	200	CR7BH	Lourenco Marques,
9600		RAN	Moscow, U. S. S. R.				Port. E. Africa
		XEYU	Mexico City, D. R.	11720	2000	CJRX	Winnipeg, Man.
9606	5000	ZRK	Capetown, U. of			TPB9	Paris, France
			So. Africa		24600		Huizen, Netherlands.
9618	750	HJ1ABP	Cartagena, Colombia				Boston, Mass.
9630		H J7ABD	Bucaramanga,	11740		HP5L	David, Panama
		•	Colombia		20000		London, England.
9635	25000	2RO3	Rome, Italy	11/50			Vatican City
9636			Itabushi, Taiwan	11760		HVJ OLR4B	
9640	2500	CXA8	Colonia, Uruguay	11/00	5,000	OLK46	Praha, Czecho-
9645		HH3W		10	000 T	CW/A	slovakia
9650			Lisbon, Portugal	10	1 0000	GWA	Guatemala City,
9660	5000		Buenos Aires,		1/100	VETA	Guat.
,000	,,,,,		Argentina		1000	XETA	Monterrey, N. L.,
9670	500	TI4NRH	Heredia, Costa Rica	11770	50000	DID	Mexico
			Guatemala City,		50000	-	Berlin, Germany
,,	20000		Guat.	11780		HH2X	Port-au-Prince, Haiti
9690	5000	TRA	Buenos Aires,	11700		HP5G	Panama City, Panama
/0/0	7000	2,101	Argentina		20000	WIXAL	Boston, Mass.
9700	200		Fort de France,	11795		DJO	Berlin, Germany
7700	200	• • •	Martinique	11796			Ica, Peru
9740		COCQ	Havana, Cuba			COGF	Matanzas, Cuba
9760		CSW3	Lisbon, Portugal	11800			Tokyo, Japan
9775		COCM	Havana, Cuba	11805	• • •	OZG	Copenhagen,
	20000		Rome, Italy				Denmark
	20000		Madrid, Spain	11810			Rome, Italy
9800	20000	EAR	(Loyalist)	11820			London, England
9950		COCU	Havana, Cuba		150	XEBR	Hermosillo, Son.,
		COBC					Mexico
9960			Havana, Cuba			W2XE	New York, N. Y.
10220	12000	rsn	Rio de Janeiro,				Chicago, Ill.
10066		DACAT	Brazil	11840			Lisbon, Portugal
10260	1500	PMN	Bandoeng, Java,			KRM	Manila, P. I.
	•	DZC	N. E. I.		35000	OLR4A	Praha, Czecho-
	5000		Berlin, Germany				slovakia
-	11000		Brussels, Belgium	11845	24000	TPB8	Paris, France
10350	20000	LSX	Buenos Aires,	11855			Berlin, Germany
			Argentina	11860	20000	GSE	London, England
10370	23000	EAJ43	Santa Cruz de -		1000	YDB	Sourabaya, Java,
		,	Teneriffe, Canary Isl.				N. E. I.
			,				

1187	0		IOY	Rome, Italy
		40000	IQY W8XK	Pittsburgh, Pa.
			OLR4C	Praha, Czecho-
				slovakia
1188	5	25000	TPB7	Paris, France
1189	15	111	HP5I	Aquadulce, Panama
1190	0		CD1190	Valdivia Chile
			LYZ3	Kaunas, Lithuania
		35000	OLR4D	Praha, Czecho-
				slovakia
		25000		Paris, France
			XEWI	Mexico City, D. E.
1196	0	500	HI2X	Ciudad Trujillo,
				D. R.
1200	0	20000	RNE	Moscow, U. S. S. R.
1223	5	7500	TFJ VP2LO	Reykjavík, Iceland Basseterre, St. Kitts
1277	5	5.00	VP2LO	Basseterre, St. Kitts
1363	5	10000	SPW	Warsaw, Poland
1442	0		HC1JB	Quito, Ecuador
		18000		Geneva, Switzerland
		1500		Sofia, Bulgaria
1511	0	50000	DJL	Praha, Czecho-
		10000	T T 3 7 1	slovakia
1512	:0	10000	HVJ	Vatican City
1013	0	25000	TPB0	Paris, France
		15000	WIXAL	Boston, Mass. London, England
1014	10	12000	VDC	Panlaga Jana
1513	0()	3000	YDC	Bandoeng, Java,
1516		F 0.0	CMECV	N. E. I. Stockholm, Sweden
1213	2	5000	SM5SX	Tolmo anan
1510	v	20000	JZK VUD3	Tokyo, apan Delhi, India
		10000	XEWW	Marriso City D. F.
1614		10000	CXA14	Mexico City, D. F. Montevideo, Uruguay
1517	O		TGWA	Customals City
		10000	IGWA	Guatemala City,
1510			CSO	Guat. London, England
1520	00	8000	GSO DJB W8XK	
1521	10	40000	WOVE	Berlin, Germany Pittsburgh, Pa.
1522	מו	20000	DC I2	Huizen, Netherlands
1522	10	25000	OLR5A	Praha, Czecho-
1)43	, U	JOUC	OLKIA	slovakia
1524	ín	25000	TPB5	Paris France
1525	in	20000	WIXAL	Boston Mass
1526	in.	200,00	GSI	London England
1527	70	500	HI3X	Ciudad Truiillo
. , . ,		200		slovakia Paris, France Boston, Mass. London, England Ciudad Trujillo, D. R.
		10000	W2XE	New York, N. Y.
1528	30	50000		Berlin, Germany
1529	0	5000	LŔŨ	Buenos Aires,
- / - /	,			Argentina
1529)5	25000	TPB4	Paris, France
1530	ó		LYZ4	Kaunas, Lithuania
				London England
			OLR5B	London, England Praha, Czecho-
1792	. ()	,,,,,,,	OLICID	slovakia
				0.0

15330 25000 W2XAD Schenectady, N. Y. 20000 W6XBE Belmont, Calif. Berlin, Germany 15340 50000 DJR 15370 20000 HAS3 Budapest, Hungary Djibouti, Fr. 17280 ... FZE8 Somaliland 17760 50000 DIE Berlin, Germany 10000 W2XE New York, N. Y. Paris, France 17765 25000 TPB3 17770 23600 PHI Huizen, Netherlands 17780 25000 TPB2 Paris, France 35000 W3XAL Bound Brook, N. J. 17790 15000 GSG London, England Praha, Czecho-21450 35000 OLR6A slovakia 21460 10000 W1XAL Boston, Mass. ... GSH London, England 21470 21490 25000 TPB1 Paris, France 21500 50000 W2XAD Schenectady, N. Y. London, England 21530 15000 GSJ



The following readers wish to exchange SWL cards.

Edward Hirsch, St. Albans, L.I., N. Y.

R. Howard Berg, Jr., 621 Melbourne Ave., Melbourne, Fla.

A. J. Parfitt, 1925 E. 84th St., Cleveland, Ohio

Raymond Benton, Route 4, Plymouth, N. H. Lewis R. Hill, 2138 S. 16th Ave., Maywood, Ill.

Peter Clarius, 11 Marianne St., Port Richmond, N. Y.

William Higgins, 7916 Tacoma St., Pitts-burgh, Pa.

Jim Walker, Box 206, Romney, W. Va., wishes to correspond with Radex "folks" in foreign lands.

Merton M. Hiatt, Box 7, Dryden, Wash., exchanges SWL cards.

Twenty Stentors

LISTED below are the twenty shortwave stations which possessed the loudest voices last month. Arranged according to the number of reports received, this chart can be used by new listeners as a guide to the stations which they are most apt to receive in their own localities. Beginners should not attempt to tune for difficult catches until they become familiar enough with their receivers to bring in these easy-to-get stations regularly.

By all Readers	$\begin{array}{c} \textbf{Best in} \\ \textbf{EST} \end{array}$	Best in CST	Best in MST	Best in PST
Paris	CSW	Paris	Rome	OAX4Z
CSW	SPW/	London	Tokyo	EAR
Rome	SPD	Rome	HJ1ABB	HCIB
Tokyo	Paris	RKI	TGWA	ZGE
SPŴ	Tokyo	YV5RC	HCJB	XGW
RKI	ZIK2	VPD2	OAX4Z	Tokyo
London	EAQ	YDB	HJ1ABE	ХТĆ
Praha	Berlin	Praha	EÄR	VPD2
Berlin	Praha	Tokyo	XEDQ	VK3ME
YV5RC	RKI	HP5G	XEWÏ	VUD3
TGWA	Rome	HBO	HJIABG	VK6ME
SPD	London	HJ3ABX	H J3ABD	XEXA
HP5G	TGWA	HH2S	XEXA	*
HJ3ABX	HP5G	LRX	CJRX	
HBO	HJ3ABX	PCJ	н Ј3АВН	
TG2	HBO	TĞWA	ZĬK2	
EAQ	TG2	TG2	*	
VPD2	HH2S	Berlin		
HH2S	PC1	EAR		
PCJ	LRX	HJ5ABD -		

^{*} No others reported.

Combined reports from all readers during the month show but little change in the standings of the stations. Three of the first five stations in the September list are included among the first five this month; SPW entered the first five in the list by only two more votes than RKI. Among the first ten, Paris and Praha are the only newcomers this month, replacing SPD and HH2S, which have fallen to twelfth and nineteenth place, respectively.

Judging by the first five stations in each list, no stations seem to be heard consistently throughout the entire country at this time. Only four stations are reported in

more than one time zone, and none is reported in more than two zones. Among the first ten stations, the Tokyo transmitters are the only ones which were heard in all the time zones.

The operating schedules of the forty-three stations which are shown in the table above, are given in the list following.

Berlin. Deutscher Kurzwellensender, Haus des Rundfunks, Berlin, Charlottenburg 9. Transmitters are at Zeesen. Can be identified by a tune on a music box which precedes each transmission. These stations verify by card for an IRC.

For North America: 8 to 9 am, DJL, 15110 kcs.; 4:50 to 10:50 pm, DJB, 15200 kcs, and DJD, 11770 kcs.; 7:15 to 10:50 pm, DJP, 11855 kcs; On Sundays only, 11:10 am to 12:25 pm, DJB, 15200 kcs. For Asia: 12:05 to 11 am, DJA 9560, DJB 15200, DJQ 15280, and DJS 21450 kcs. 12:05 to 5:50 am, DJE 17760 kcs. 8 to 10 am, DJE 17760 kcs.

For Africa: 12:05 to 2 am, DJL 15110 kcs. 10:35 am to 4:25 pm, DJD 11770 kcs, DJL 15110 kcs. 11:30 am to 4:25 pm, DJC 6020 kcs. Sundays only, 6 to 8 am, DJL 15110 kcs.

For South America: 6 to 7:50 am, DJE 17760 kcs. 4:50 to 10:50 pm, DJN 9540, DJQ 15280, and DJE 17760 kcs. Sunday only, 11:10 am to 12:25 pm, DJE 17760 kcs.

For Central America: 8 to 9 am, DJR 15340 kcs. 4:50 to 10:50 pm, DJR 15340 kcs. 6 to 10:50 pm, DJA 9560 kcs.

London. British Broadcasting Corp., London W1, England. When a transmission commences on the even hour, it is introduced by the peals of Big Ben striking the hour. Reports are acknowledged but not positively verified. Transmitters are located at Daventry.

GSB, 9510 kcs: 1 to 3:15 am; 1220 to 6 pm; 6:30 to 8:30 pm; 9:20 to 11:20 pm.

GSC, 9580 kcs: 9:20 to 11:20 pm. GSD, 11750 kcs: 1 to 3:15 am; 12:20 to 4 pm; 6:20 to 8:30 pm.

GSF, 15140 kcs: 5:45 to 8:30 am; 9 am to noon; 4:15 to 6 pm.

GSG, 17790 kcs: 1 to 3:15 am: 5:45 to 8:50 am; 9 am to noon; 1220 to 4 pm; 4:15 to 6 pm; 6:20 to 8:30 pm; 9:20 to 11:20 pm.

GSH, 21470 kcs: 5:45 to 8:50 am; 9 am to noon.

GSI, 15260 kcs: 1 to 3:15 am; 5:45 to 8:50 am; 12:20 to 4 pm; 9:20 to 11:20 pm.

GSJ, 21530 kcs: 5:45 to 8:50 am; 9 am to noon.

GSO, 15180 kcs: 1 t 3:15 am; 4:15 to 6 pm; 6:20 to 8:30 pm.

GSP, 15310 kcs: 4:15 to 6 pm; 6:20 to 8:30 pm.

Paris. "Paris Mondial," Ministry of Posts, Telegraphs and Telephones. 98 bis Blvd. Haussmann, Paris VIIIe, France.

TPA2, 15243 kcs: 5 to 10 am.

TPA3, 11885 kcs: 1 to 4 am; 10:15 am to 5 pm.

TPA4, 11718 kcš: 6 to 8:15 pm; 8:30 to 11 pm.

TPB3, 17810 kcs: 8:30 to 11 am. TPB6, 15130 kcs: 6 to 8:15 pm. TPB7, 11885 kcs: 8:30 to 11 pm. TPB11, 9550 kcs: 1 to 4 am; 10:15

Praha. The Czechoslovak Shortwave Station (Ceskoslovenska Kratkovlnna Stanice), Fochova Tr. 16, Praha.

am to 5 pm.

For North America: Monday, Tuesday, Thursday and Friday, OLR4A (11840 kcs) and OLR4B (11760 kcs), or OLR5A (15230 kcs) and OLR5B (15320 kcs), 6:55 to 9:55 pm.

For South America: Same stations as North American Program, Sundays only (Domingos), 5:55-8:55 pm EST.

For Europe: OLR4A (11840) and OLR4B (11760), daily, 1:55 to 4:30 pm.

OLR3A, 9550 kcs: Monday, Tuesday, 4:40 to 5:10 pm.

OLR2A (6010) and OLR2B (6030): Thursday, 4:40 to 5:10 pm.

OK1MPT, 5145 kcs: Friday, 4:40 to 5:10 pm.

Rome, E.I.A.R., 5 Via Montello, Rome, Italy.

JCC, 6355 kcs: 3 to 3:30 pm.

- IQY, 11676 kcs: 3 to 3:30 pm; 6 to 9 pm.
- IRF, 9830 kcs: 3 to 3:30 pm; 6 to 9 pm.
- 2RO, 11810 kcs: 4:40 am to 9 pm.
- Tokyo. Broadcasting Corp. of Japan, Hibiya Park, Tokyo.
 - JZJ, 11800 kcs: 7 to 7:30 am; 8 to 9:30 am; 2:30 to 4 pm; 4:30 to 5:30 pm.
 - JZK, 15160 kcs: 12:30 to 1:30 am; 2:30 to 4 pm; 4:30 to 5:30 pm. JZL, 17785 kcs: 6 to 6:30 pm.
- CJRX, James Richardson and Sons, Ltd., Winnipeg, Man., Canada. 11720 kcs: 6 pm to midnight.
- CSW3, 9740 kcs, "Emisora Nacional," Rua da Quelhas, Lisbon, Portugal. Daily 1 to 8 pm.
- EAQ, was reported by many listeners, but is now known as EAR, q. v.
- EAR, 'The Voice of Republican Spain,'
 P. O. Box 951, Madrid. 9860 kcs,
 with daily transmission at 3:30, 6:30
 and 7:40 pm.
- HBO, 11400 kcs, Geneva, Switzerland, Sunday 7-7:15 pm.
- HCJB, 8840 kcs, Quito, Ecuador. Daily except Monday, 5-10 pm.
- HH2S, 5920 kcs, Port-au-Prince, Haiti, daily 7-10 pm.
- HJIABB, 4780 kcs, Barranquilla, Colombia. 4:30-10 pm.
- HJ1ABE, 4800 kcs., Cartagena, Colombia. 8-11 pm.
- HJ1ABG, "Emicora Atlantico," Barranquilla, Colombia, 6042 kcs. 11 am-8 pm.
- HJ3ABD, 4840 kcs, Bogota, Colombia. 6-11:30 pm.
- HJ3ABH, 4900 kcs, Bogota, Colombia, 6-11 pm.
- HJ3ABX, 5990 kcs, Bogota, Colombia. 5:30-11:30 pm.
- HJ5ABD, 6085 kcs, "La Voz del Valle," Cali, Colombia. 5-9:45 pm.
- HP5G, 11780 kcs, Panama City, 6-10 pm. LRX, 9660 kcs, Buenos Aires, Argentina. 5 pm to 2 am.

- OAX4Z, 6070 kcs., "Radio Nacional," Lima, Peru. 7-11 pm.
- PCJ, 9590 kcs, "The Happy Station," N. V. Philips' Holland-India Station, Eindhoven, Netherlands.
- PCJ, 9590 kcs, Sunday 2-3 pm; 7-8 pm; 8:25-9:25 pm; Tuesday, 1:45-3:40 pm; 7-8:30 pm; 8:45-10:15 pm. Wednesday, 7-9 pm.
- RKI, 15080 kcs, Moscow, USSR. Sunday, 12:15-2:30 pm.
- SPD, 11535 kcs, Warsaw, Poland, 6-9 pm.
- SPW, 13635 kcs, Warsaw, Poland, 6-9 pm.
- TGWA, 9685 kcs, Guatemala City, daily 10-11:30 pm; Sunday, 6-11 pm.
- TG2, 6210 kcs, Guatemala City, 5-11 pm.
- VK3ME, 9500 kcs, Melbourne, Australia, daily exc. Sunday, 4-7 am.
- VK6ME, 9590 kcs, Perth, Australia, daily exc. Sunday, 6-8 am.
- VPD2, 9540 kcs, Suva, Fiji Islands. 5:30-7 am.
- VUD3, 9590 kcs, Delhi, India. 8:30-10:30 pm.
- XEDQ, 9530 kcs, Guadalajara, Jal., 7 pm to 1 am.
- XEWI, 11900 kcs, Mexico City, D. F., 9 pm to midnight.
- XEXA, 6170 kcs, Mexico City, D. F. 7-11 pm.
- XGW, 10420 kcs, Shanghai, China. A commercial station used for broad-casting. 6-9:45 am.
- XTC, 9290 kcs, Nanking, China. 8-9:10 am.
- YDB, 9550 kcs, Sourabaya, Java, N.E.I. 5:30-10 am.
- YV5RC, 5970 kcs, Caracas, Venezuela. 7:30 am-10:30 pm.
- ZGE, 6200 kcs, Kuala Lampur, Federated Malay States, Sunday, Tuesday, Friday, 6:40-8:40 am.
- ZIK2, 10600 kcs, Belize, British Honduras, Tuesday, Thursday, Saturday, 7:30-7:45 pm.

AMATEUR CALLS HEARD

THE names and addresses of persons reporting stations shown in this list are indicated by small letters following the call signs. Key to the small letters is given at the end of the column. All calls this month were head on the 20-meter, or 14 megacycle band.

CE1BC (a); CE3BK (c); CT1PB (a);
CT1QG (d): FA3HC (f); F3HL (df);
F3HM (f); F3LW (f); F3MN (d);
GM2UU (ef); GM6RG (ad); GM6WD
(f); G2HI (d); G2CW (d); G2PU (d);
G2UT (d); G2XC (d); G3BX (f);
G3DO (f); G5BJ (d); G5BM (d); G5BS
(d); G5GS (de); G5HS (e); G6AS (f);
G6CW (d); G6FF (d); G6WX (d);
G8GP (d);

HC1FG (d); HC1JB (d); HH2B (g); HH2MC (e); HH5PA (dg); HI2C (b); HI2P (d); HI3N (cd); HI5X (bcdg); HK1LZ (e); HK3LC (d); HK5DB (de); HR5C (bd); J5CC (e); KA1AB (a); KA1FH (e); KA7EF (b); K4EMG (b); K4FAY (d); K6FAB (d); K6ILW (e); K7AOE (d); LU8AB (d); NY2AE (d). OA4AJ (e); OA4C (d); OA4K (f); PK4CB (b); PK6AJ (e); PK6XX (b);
PY1FR (f); PY1HA (f); PY2AK (f);
PY2BH (f); PY2ER (c); PY2FF (b);
PY2GC (b); PY5BJ (f); T12FC (d);
T12FG (c); T12IF (c); T12LR (d);
VK2ABD (f); VK2ADT (e); VK2AP
(f); VK2DZ (f) VK2NS (f) VK3BZ
(f); VK3NX (f); VK4JU (e); VO2Z
(b); VP1BA (d); VP6FO (d); VP6YB
(d); VP7NR (f); VP9G (b) VP9L (b);
VP9R (a); YN1GG (c); YV1AP (d);
YV1AQ (f); YV4AA (c); YV4AB (e);
YV5ABQ (d); YV5ABY (cf).

(a) Edward Bader, 118-17 - 194th St., St. Albans, N. Y.

(b) A. M. Hankins, 1006 Ligonier St., Latrobe, Pa.

(c) Lewis R. Hill, 2138 S. 16th Ave., Maywood, Ill.

(d) Edward Hirsch, St. Albans, N. Y.

(e) Martin Olthoff, 212 N. 16th St., Independence, Kans.

(f) Walter V. Scholz, 33 N. Maple Ave., Webster Groves, Mo.

(g) Albert J. Tait, Jr., 225 Jackson St., Pueblo, Colo.

(b) Cliff Tavener, Rosenburg, Texas

South American Broadcasting Stations

```
Santiago, Chile. Soc. Nacional de Agricultura
Temuco, Chile. Luis E. Brian, El Diario Austral
Pelotas, Brazil. Soc. Radio Pelotense
Santos, Brazil. Radio Atlantica
Buenos Aires, Argentina. Radio Callao.
Jahu, Brazil. Radio Soc. Jahuense
Porto Alegre, Brazil. Soc. Radio Farroupilha
Montevideo, Uruguay. Direccion de Agronomia, Uruguay 821.
                                                          5000
                 CB57
 570
                  CC58
                                                             500
 580
                  PRC<sub>3</sub>
                                                             250
                                                             950
                  PRG5
590
                  LS10
                                                          6000
                  PRG7
                                                             250
                                                      25000
600
                 PRH2
                                                                                   Montevideo, Uruguay. Direccion de Agronomia, Uruguay 821. Santiago, Chile. International Machinery Co., Edificio Mutual de la Armada Cordoba, Argentina. "Radio Cordoba," San Martin 74 Iquique, Chile. Voz del Norte, Antonio Cajiao, Cavancha Buenos Aires, Arg. Radio Ultra, Cordoba 653 Piracicaba, Brazil. Radio Club de Piracicaba Vina del Mar, Chile. La Union de Recreo, Av. Portales 528 Concepcion, Chile. Hucke y Cia., Ltda., Freire 799 Montevideo, Uruguay. Estacion Oficial, Mercedes 823 Buenos Aires, Arg. Radio Portena, Belgrano 1841 Ribeirao Preto. Brazil. Rua Tiberica 26
610
                  CX4
                                                          1000
620
                 CB62
                                                          1000
                  LV3
                                                          2000
630
                CA63
                                                             250
                  LS3
                                                          5000
                  PRD6
                                                             250
                                                          1000
640
                 CB64
                  CC64
                                                            100
650
                 CX6
LS4
                                                          2000
670
                                                          7000
                                                                                     Ribeirao Preto, Brazil. Rua Tiberica 26
Belem, Brazil. Radio Club do Para
                  PRA<sub>7</sub>
                                                             500
                                                          2000
                  PRC5
```

```
Valparaiso, Chile. Metro, Renard y Garcia Tello
Bogota, Colombia. Biblioteca Nacional
             CB68
                                            1000
 680
                                             500
              HJN
                                                              Porto Alegre, Brazil. Radio Soc. Gaucha, Galeria Chaves
Valdivia, Chile. C. Kahier y Cia., Ltda., Casilla 642
Mendoza, Arg. Radio Provincia de Mendoza
              PRC2
                                            5000
 690
             CD69
              LV6
                                              500
              PRC7
                                              250
                                                               Bello Horizonte, Brazil. Radio Soc. Mineira
                                                               Sorocaba, Brazil. Radio Club Sorocabana
              PRD7
                                              250
                                                               Rio Preto, Brazil. Radio Rio Preto, S. A.
Villarrica, Paraguay
                                             250
 700
             ZP15
                                           5000
                                                              Buenos Aires, Arg. Radio Municipal, Teatro Colon
Pernambuco, Brazil. Radio Club do Pernambuco, Av. Cruz Cabuga 394
 710
             LS1
 720
             PRA8
                                        25000
                                                              Santiago, Chile. Ultimas Noticias, Compania 1258
 730
             CB73
                                           1000
                                                             Montevideo, Uruguay. Radio Ariel, Cerrito 661
San Juan, Argentina. Radio Graffigna, Mitre 1115
San Salvador, Brazil. Radio Soc. da Bahia, Pavilhao Passeio Publico
Buenos Aires, Arg. Radio del Estado, Correos y Telegrafos
Valparaiso Chile. Coop. Vitalicia, Agustinas 1253, 90 piso
Sao Paulo, Brazil, Radio Educadora Paulista, Rua Jose Bonifacio 12
              CX10
                                             500
              LV1
                                           1000
 740
              PRA4
                                          10000
                                         10000
 750
             LRA
 760
             CB76
                                         10000
              PRA6
                                         10000
                                                              Montevideo, Uruguay. Radio Westinghouse, Olimar 1364
Santiago, Chile. Cooperative Vitalicia, Agustinas 1253, 90 piso
Rosario, Arg. Radio Litoral, Cordoba 1169
Buenos Aires, Arg. Radio Cultura, Florida 570
Rio de Lapeiro, Regail Ministerio de Educação
 770
              CX12
                                           1000
 780
             CB78
                                           1000
              LT1
                                           5000
  790
              LR10
                                         10250
                                                              Rio de Janeiro, Brazil. Ministerio da Educacao
Montevideo, Uruguay. El Espectador, Itda., Olimar 1364
Santiago, Chile. El Diario Ilustrado, Moneda 1158
Tucuman, Arg. G. Acha Muroz y Cia., Mendoza 437
Rugues Airge Arg. Padio Especiales Mairo 462
              PRA<sub>2</sub>
                                           1500
 800
 810
             CX14
                                            1000
 820
             CB82
                                           1000
              LV7
                                            1000
                                                              Nuenos Aires, Arg.
Radio Excelsior, Maipu 462
Valparaiso, Chile.
Radio del Pacifico, Edificio Diario La Union
Talcahuano, Chile.
Radio Cultura, Av. Latorre s/n
              LR5
                                         29000
 830
 840
              CB84
                                            1000
              CC84
                                              100
              LT8
                                                              Rosario, Arg. Julio Blomberg, Sarmiento 958
Sao Paulo, Brazil. S. Bandeirante de Radiodiffusao.
                                              500
              PRH9
                                            5000
                                                              Montevideo, Uruguay. Radio Carve, 18 de Julio 928
Lima, Peru. "Radio Nacional," Av. Petit Thouars 447
Rio de Janeiro, Brazil. Radio Club do Brasil, Rua Betancourt da Silva 21
  850
             CX16
                                            2000
              OAX4A
                                         10000
  860
              PRA<sub>3</sub>
                                           2500
                                                              Buenos Aires, Arg. Radio Mitre, Santa Fe 2043
Bello Horizonte, Brazil. Radio Inconfidencia de Minas Geraes
Caracas, Venezuela. "La Voz de la Philco."
  870
              LR6
                                         26000
  880
              PR13
                                         22000
              YV5RQ
 882
                                                              Santiago, Chile. Otto Becker, Ahuamada 113
Montevideo, Uruguay. Radio Sport, Olimar 1364
Asuncion, Paraguay.
  890
             CB89
                                            1000
             CX18
                                            1500
              ZP9
                                            1500
                                                              Valparaiso, Chile. Hilda Guellar
Valparaiso, Chile. "El Mercurio," Casino Vina del Mar
Bahia Blanca, Arg. Radio Bahia Blanca
 900
             CA90
                                             100
              CB90
                                            1000
              1112
                                            2000
                                                             Rio de Janeiro, Brazil. Radio Educadora do Brasil, Rua Senador Dantas Buenos Aires, Arg. Radio Argentina, Bolivar 1356 Santiago, Chile. "Radio Hucke," Providencia 1022. Montevideo, Uruguay. Radio Montecarlo, Palacio Salvo 7 piso Rio de Janeiro, Brazil. Soc. Anonima Jornel do Brazil Buenos Aires, Arg. Radio Belgrano, Belgrano 1841 Coquimbo, Chile. Puerta Hermonas, Aldunate 1381 Curico, Chile. Cervecera Curico, Alberto Guerra, Merced 11 Cordoba, Arg. Radio Goincochea," Jiron Ocona 158 Sao Paulo. Brazil. Radio Difusora Sao Paulo. Caracas, Venezuela. "Broadcasting Caracas,' Apartado 2009 Santiago, Chile. Soc. Industrial A. Maquinarias, Bolivar 1551 Mont'evideo, Uruguay. Fada Radio, 18 de Julio 1092 Quito, Ecuador. Clarence W. Jones, Casilla 691 Rio de Janeiro, Brazil. Soc. Radio Nacional, Rua Buenos Aires 120
                                                               Rio de Janeiro, Brazil. Radio Educadora do Brasil, Rua Senador Dantas 82
              PRB7
                                            5000
                                          12000
 910
              LR<sub>2</sub>
                                           2500
 930
              CB93
              CX20
                                           1000
 940
             PRF4
                                         10000
 950
             LR3
                                         31000
  960
             CB96
                                              200
              CC96
                                             100
              LV<sub>2</sub>
                                           2000
              OAX4E
                                             200
              PRF3
                                            5000
              YV5RA
                                            5000
             CB97
 970
                                            1000
              CX22
                                              500
 974
              HCIB
                                            1000
 980
              PRE8
                                         20000
                                                             San Cristobal, Venezuela. "La Voz del Tachira," Aptdo. 37
Buenos Aires, Arg. Radio Splendid, Callao 1526
Bogota, Colombia. "La Voz de la Victor," Apartado 565
Lima, Peru. Gildred Corp., Baquijano 790
Sao Paulo, Brazil. Radio Soc. Record, Praca da Republica 17
Asuncion, Paraguay.
Caracas, Venezuela. "Ondas Populares."
Santiago, Chile. "Radio Mayo," Pasaje Matte 81
Montevideo, Uruguay. La Voz del Aire, 18 de Julio 928
Magallanes, Chile. Ramon Verde Sanchez, Mexicana 936
Buenos Aires, Arg. Radio Fenix, Talcahuano 1186
La Paz, Bolivia. Carlos Lopez Vedela, Casilla 637
Bogota, Colombia
Sao Paulo, Brazil. Radio Tupy Sao Paulo
              YV1RB
                                            1000
  990
              LR4
                                          16000
1000
              НЈ3АВН
                                           2000
              OAX40
                                              100
              PRB9
                                         10000
             ZP3
YV5RG
                                             300
1005
1010
             CB101
                                           1000
              CX24
                                           1000
                                              100
1030
              CD103
               LR9
                                            5000
             CP4
                                          10000
1040
              H13ABZ
              PRG2
                                          10000
                                                               Sao Paulo, Brazil. Radio Tupy Sao Paulo
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Montevideo, Uruguay. Millan 2370
Bogota, Colombia. The Voice of Colombia.
Santiago, Chile. Manual Casablanca, Goycolea 0147—Cisterna
Rio de Janeiro, Erazil. Soc. Radio Cruzeiro do Sul, Rua Mariz e Barros 276
Buenos Aires, Arg. Radio El Mundo, Maipu 555
Rosario, Arg. Radio Soc. Rural de Cerealistas, Pte. Roca 770
Lima, Peru. F. W. Castelano y Hno., Union 650
 1050 CX26
                                          1500
              НЈ3 АВХ
              CB106
                                          5000
1060
                                          5000
              PRT)2
                                        50000
 1070
              LR1
                                          4500
              LT3
1080
              OÁX4F
                                            100
                                                            Joao Pessoa, Brazil. Governo do Estado de Parahyba
Rancagua, Chile. "El Regional," Independencia 483
              ZP7
                                            700
                                        10000
             CC109
                                            100
                                                            Montevideo, Uruguay. Edison Broadcasting, Convencion 1379
Artaraquara, Brazil. Radio Cultura Araraquara, Av. Feiji 25
Bogota, Colombia. Colombia Broadcasting, Apartado 509
Lima, Peru. Radio International, S. A., Casilla 1166
1090
              CX28
                                          1500
                                            500
              PRD4
              HJ3ABD
                                              50
1100
              OAX41
                                            250
                                                            Sao Paulo, Brazil. Radio Excelsior
Caracas, Venezuela. Ecos del Caribe, Aptdo. 963
                                        20000
              PRG9
              YV5RE
                                                            Caracas, Venezuela. So dei Cambe, Apido. 303 Vina del Mar, Chile. Los Castanos, Av. Castanos 393 Magallanes, Chile. "Radio Austral," Independencia s/n Buenos Aires, Arg. Radio Rivadavia, Callao 1526 Osorno, Chile. David Arriagada, Baquedano 715
             CB111
                                          1000
1110
                                            100
              CD111
              LS5
                                          5000
             CD112
                                            100
1120
                                                            San Juan, Argentina. Radio los Andes, G. Acha 362
Rio de Janeiro, Brazil. Radio Ipanema
Maracaibo, Venezuela. Ondas del Lago, Apartado 261
              ĹV5
                                          5000
              PRH8
                                          5000
              YV1RF
                                          1000
                                                            Quillota, Chile. Ricardo Mendez, Subida Baron 91
                                            100
1130
             CB113
                                                            Montevideo, Uruguay. Radio Nacional, Porvenir 2384
Bucaramanga, Colombia. V. R. Cadeno, Aptdo. 34
                                          1000
              CX 30
              HJ7ABD
                                                            Santiago, Chile. Radio del Pacifico, Huerfanos 1153, of. 15
                                          1000
              ZPI
                                          5000
             CB114
1140
                                                            Durazno, Uruguay. Artola, Evangelisti y Cla.
Guayaquil, Ecuador. El Telegrafo
Buenos Aires, Arg. Radio Paris, Cangallo 860
Santa Marta, Colombia.
              CW25
                                            250
             HC2ET
                                            300
1150
                                          7000
             LR8
             HJ1ABJ
                                              50
                                                            Cartagena, Colombia
              HJIABM
                                                                                          "Radio Davila," Filipinas 154
                                                            Lima, Peru.
              OAX4H
                                              60
                                                           Maracay, Venezuela. La Voz de Aragua.
Valparaiso, Chile. Oscar Cornejo Harker, Prat 773 of. 10.
Resistencia, Arg. Radio Chaco, Av. 9 de Julio
Sao Paulo, Brazil. Radio Piratininga
Concepcion, Chile. Radio Zenith, Colo-Colo 265
             YV4RG
             CB116
                                          1000
1160
                                            500
              LT5
                                          5000
             PRH3
                                                           Concepcion, Chile. Radio Zenith, Colo-Colo 265
Montevideo, Uruguay. Radio Aguila, Plaza Libertad 1332
Campinas, Brazil. Radio Educadora de Campinas
Uberaba, Brazil. Radio Soc. Triangulo Mineiro
Santiago, Chile. Sazie Hnos., Ltda., Portal Fernandez Concha.
Salto, Uruguay. Tribuna Saltena
Buenos Aires, Arg. Radio Prieto, Bolivar 1356
Valparaiso, Chile. Spencer y Vivado, Ltda., Ed. Diario La Union
Bogota, Colombia. Uribe y Moreno, Box 317
Santa Fe, Arg. Radio Roca Soler
Lima, Peru. Roberto Grellaud y Cia., Sen Abancay 915-23
Sao Paulo, Brazil. Soc. Radio Cruzeiro do Sul, Largo da Misericordia 4
Caracas, Venez. Radiodífusora Venezuela
Osorno, Chile. Juan Bautista Onate, Eleuterio Ramirez 2930
Montevideo, Uruguay. Radio Artigas, Millan 2370
1170 CC117
                                            100
             CX32
                                            500
                                            500
             PRC9
             PRE5
                                            500
                                          5000
             CB118
1180
             CW34
                                            250
                                        30000
             LS2
1190
                                          1000
1200
             CB120
              HJ3ABE
                                          1000
                                            500
             LŤ9
             OAX4B
                                            350
                                          1000
             PRB6
              YV5RB
                                            100
             CD121
1210
                                                            Montevideo, Uruguay. Radio Artigas, Millan 2370
Mendoza, Arg. Radio de Cuyo
Rio de Janeiro, Brazil. Radio Soc. Mayrink Veiga, Rua Mayrink Veiga 17
             CX34
                                            500
                                            500
             LV10
                                        25000
             PRA9
                                                           Rio de Janeiro, Brazil. Radio Soc. Mayrina voga, Aua Rayrina. Medellin, Colombia.
Duenos Aires, Arg. Radio Stentor, Florida 8
Valparaiso, Chile. Angel Garcia y Cia., Av. Brazil 2142
Bahia Blanca, Arg. Radio Gen. San Martin, Calle Saromento 60
La Rioja, Arg. Radio Provincia de La Rioja
Santiago Chile. Consorcio Esp. Seg. Huerfanos 830
Montevideo, Uruguay. Centenario Broadcasting, Olimar 1364
Guayaquil, Ecuador.
1220
             HJ4ABK
LS8
                                            300
1230
                                        15000
                                            250
             CB124
1240
                                          2000
             LU7
             LV14
                                            500
                                          1000
             CB125
1250
                                          1000
             CX36
                                              30
             HC2JSB
                                                            Lima, Peru. Radio Miraflores, Calle Manco Capac 347
Maracaibo, Venez. Radio Popular, Aptdo. 247
                                              60
              OAX4L
                                            250
              ÝVIRK
                                                            Salto, Uruguay. Radio Popelka
             CW36
                                            250
1260
                                                            Sao Paulo, Brazil. Rua 7 de Abril 3
Antofagasta, Chile. Raquel Palma, Eduardo Lafont s/n
             PRA5
                                          5000
             CA127
CC127
                                            100
1270
                                                           Chillan, Chile. Rafael Barrios, Arauco entre Const-Roble Quenos Aires, Arg. La Voz del Aire, Maipu 550 Barquisimeto, Venez. La Voz de Lara
                                            100
                                         6000
             LS9
              YV3RA
                                                            Asuncion, Paraguay.
              ZP4
                                            150
```

```
Rio de Janeiro, Brazil. Radio Tupy, S. A.
Montevideo, Uruguay. Radio El Mundo
Santiago, Chile. Victor Wiedmaier, Av. J.
La Paz, Bolivia
1280
               PRG3
                                          25000
1290
               CX38
                                               500
1300
              CB130
                                              1000
                                                                                                        Victor Wiedmaier, Av. J. D. Canas 565
               CPX
                                             5000
                                                                Salto, Uruguay. Radio Lanza
Santa Fe, Arg. Universidad Nacional
Mar del Plata, Arg. Radio Atlantica
Lima, Peru. Difusora Universal S. A., Camana 372
               CW38
                                               250
               LT10
                                               500
               LU6
                                                500
               OAX4C
                                                 60
                                                               Bello Horizonte, Brazil, Radio Guarany
Maracaibo, Venezuela. Ecos del Zulia, Aptdo. 37
Barranquilla, Colombia. "La Voz de la Patria"
La Plata, Arg. Kadio Prov. de Buenos Aires.
               PRH6
                                             3000
               YV1RA
                                               150
              HIIABK
                                               250
1310
1310
              LŠ11
                                           10000
1320 CB132
                                             1000
                                                               Valparaiso, Chile. David Wallace, Esmeralda 111 Valdivia, Chile. Carlos Kahler, Isle Teja Nictheroy, Brazil. Radio Club Flumenense Sao Paulo, Brazil. Radio Soc. Sorocaba Fortaleza, Brazil. Sao Caulo Club Sao Paulo, Brazil. Soc. Diffusao Radiocultura Chillan, Chile. Miguel Arrau, 5 de Abril 587 Montevideo, Uruguay. Radio Fenix, Chayos 4534. Barranquilla, Colombia. E. J. Pellet, Box 751. Santiago, Chile. Radio Vestal, Gumercindo 885 Corrientes, Arg. Radio Provincia de Corrientes Sao Paulo. Brazil. Radio Cultura A Voz do Esp
                                                                Valparaiso, Chile. David Wallace, Esmeralda 1111
               CD132
                                               100
               PRD8
                                             1000
               PRD9
                                               500
               PRE9
                                             2000
               PRH4
                                             2000
                                               100
              CC133
1330
               CX40
                                                500
               HIIABA
                                               100
              CB134
                                             1000
1340
                                               500
                                                               Corrientes, Arg. Radio Provincia de Corrientes
Sao Paulo, Brazil. Radio Cultura A Voz do Espaco
Buenos Aires, Arg. Radio del Pueblo, Cordoba 1580
Valencia, Venezuela. La Voz de Carabobo
Magallanes, Chile. Vog del Sur, Ines Diaz, Valdivia 250
Rio de Janeiro, Brazil. Radio Soc. Guanabara, Rua 1 de Mayo 123
               PRE4
                                             5000
              LS6
1350
                                            6000
               YV4RA
              CD136
                                               100
1360
               PRC8
                                             5000
                                                                Armenia, Colombia
1363
              HJ6ABN
                                                               Temuco, Chile. Charles Kahler, Ed. Teatro Central 20 piso
San Jose, Uruguay. Juan J. Arispuru y P. Brusscoleri
Montevideo, Uruguay. Tribuna Sonora, Av. Italia 3646
Blumenau, Brazil. Radio Club do Blumenau
1370
              CČ137
                                               100
              CW41
CX42
                                               250
                                               500
              PRC4
                                               250
                                                                Marila, Brazil. Radio Club de Marilia
              PRI<sub>2</sub>
                                               250
                                                               Marila, Brazil. Radio Club de Marilia
Caracas, Venezuela. La Voz de la Esfera, Aptdo. 1908
Santiago, Chile. "El Mercurio," Compania 1288
Valparaiso, Chile. Radio Ford, Av. Brazil esq. Av. Francia.
La Plata, Arg. Radio Univ. Nacional de La Plata
San Antonio, Chile. "Vina Santa Rita," Pob. Coop. Victoria, Casa 12
Cartagena, Colombia. Aptdo. 47
Rio de Janeiro, Brazil. Dpto. de Educacao da Prefeitura Largo da Carioca 5
               YV5RI
1380
              CB138
                                             5000
              CB139
                                             1000
1390
               LR11
                                               500
              CB140
                                               100
1400
              HJ1ABR
               PRD5
                                             5000
                                                               Bolivar, Venez. Ecos del Orinoco, Aptdo. 34
Arequipa, Peru. Maximo J. Landa, Sucre 409
Concepcion, Chile. Radio Phillips, Caupolican 370
               YV6RA
                                              200
              OAX6B
                                                60
1405
1410
              CC141
                                               100
                                                               Colonia, Uruguay. Bernotti Montellanos
Sao Paulo, Brazil. Radio Cosmos, Praca Marechal Deodoro 52
Curityba, Brazil. Radio Club Paranaense
              CW37
                                            1000
              PRE7
                                             5000
1420
              PRB<sub>2</sub>
                                            2000
                                                              Curityba, Brazil. Radio Club Paranaense
Talca, Chile. Radio Atlantida, Molino Sandoval
Rio de Janeiro, Brazil. Soc. Radio Cajuty, Rua Conde de Bomfim 457
Santiago, Chile. "Nascimento," Av. Jose M. Infante 2290
Santiago, Chile. "Radio Copec," Ed. La Nacion 90 piso.
Santiago, Chile. "Radio Service," Luis Desmaras Los Deones, Camelias 2860
Buenos Aires, Argentin.
Porto Alegre, Brazil. Empresa Radiodiffusora Portoalegrense
Cruzeiro Reavil. Soc. Radio Mantiqueira
1430
              CC143
                                              100
              PRE2
                                             5000
1440
              CB144A
                                               100
              СБ144В
                                               100
              CB144C
                                              150
                                          10000
              LS7
              PRF9
                                            3000
                                                               Forto Alegre, Brazil. Empresa Radiodiffusora Portoalegrense Cruzeiro, Brazil. Soc. Radio Mantiqueira Baura, Brazil. Pauru Radio Club Rancagua, Chile. "Colmena," Brasil 1174 Montevideo, Uruguay. Radio America, Colonia, esquina Cuareima Santos, Brazil. Rua da Pedro II-16
              PRG6
                                              500
              PRG8
                                               250
              CC145
                                               100
1450
              CX46
                                              500
              PRB4
                                             1000
              PRH5
                                                               Pocos de Caldas, Brazil. Radio Cultura.
                                              250
                                                               San Jose, Uruguay. Broadcasting San Jose.
Ria Claro, Brazil. Radio Club do Rio Claro
Campos, Brazil. Radio Cultura de Campos
                                               250
1460
             CW47A
              PRF2
                                              250
              PRF7
                                              250
                                                               Asuncion, Paraguay.
Parana, Argentina. Radio Provincia de Entre Rios
              ZP5
                                               150
1470
              LT11
                                               500
                                                               Nictheroy, Brazil. Radio Soc. Fluminense
Jaboticabal, Brazil. Radio Club Jaboticabal
Franca, Brazil. Radio Club Hertz
              PRE6
                                            1000
              PRG4
                                              250
              PRB5
                                              250
1480
                                                               Petropolis, Brazil. Petropolis Radiodiffusora
              PRD3
                                            1000
                                                               Montevideo, Uruguay. Estacion Feminina, 18 de Julio 1333
Santiago, Chile. Markoff Hnos.
Cali, Colombia. Radiodifusora Colombiana, S. A., Aptdo. 50
1490
              CX48
                                              500
              CB150
                                          10000
1500
              HJ5ABE
```

Network.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KEY TO SYMBOLS

As shown in the Index by Frequencies

Frequencies are given in kilocycles per second, and wavelengths in meters. Night power is shown in watts in third column. Daytime power is shown in parentheses in fourth column, in kilowatts. Thus: (.25) indicates 250 watts. Exact frequencies, when not multiples of ten, are shown in the fourth column.

```
Second Column Symbols
                                           Assigned this frequency but
                                                                            QR
                                                                                 Station not in use
National "Red" N
                                             using another under Spec-
     Verifies for return postage.
                                                                                Sundays only.
                                             ial Authorization.
     Verifies only occasionally.
b
                                                                                Synchronized.
                                          Assigned another frequency
     Does not verify.
                                             —using this one under Special Authorization.
                                                                            x
                                                                                 Has Permit to change power.
     Verifies - no postage re-
       quired.
                                                                            Y
                                                                                 Has Permit to change loca-
                                          Assigned lower power but
                                      J
     Verifies for I
Reply Coupon
                                                                                   tion.
                    International
P
                                             using this power under Special Authorization.
                                                                                 Has Permit to change fre-
     No information available.
                                                                                   quency.
                                      ĸ
                                          Licensed for facsimile.
    Fourth Column Symbols
                                         Limited time.
Mutual Network.
National "Red" and "Blue"
                                                                            a-b-c Small letters show sta-
     Status in doubt—in Court.
National "Blue" Network.
                                                                                 tions using same transmitter.
                                                                            1-2-3 Figures denote stations
     Columbia Network.
                                             Networks.
                                                                                   sharing time.
     Daytime only.
                                          Has Construction
                                                                  Permit
     Canadian Network.
                                                                            ... No information.
                                             only.
540 kcs. (555.2m.)
CIRM
                1000
                               Regina, Sask.
                                                        1819 Comwall St.
ZŇS
           d
                400
                              Nassau, Bahamas
                                                        Box 48
550 kcs. (545.1 m.)
CFNB
                500
                       F(1)
                               Fredericton, N. B.
                                                        York St.
KFUO
           а
                 500
                       2(1)
                               St. Louis, Mo.
Bismarck, N. Dak.
                                                        801 DeMun St.
320 Broadway
KFYR
               1000
                       N(5)
           а
KOAC
                1000
                               Corvallis, Ore.
St. Louis, Mo.
           a
                                                        State Agricultural Col.
KSD
               1000
                       2R(5)
                               St. Louis,
San Antonio, T
           а
                                                        Pulitzer Pub. Co.
                       C(5)
KTSA
               1000
                                                        KTSA Brdcstg. Co.
           а
                               Waterbury, Vt.
Buffalo, N. Y.
WDEV
                                                        Chas. B. Adams, Adm.
Rand Bldg.
Hotel Alms
                500
           а
               1000
                       \widetilde{C}(5)
WGR
           а
                               Cincinnati, Ohio
WKRC
           a
                1000
                       C(5)
WSVA
                500
                       Ď
                               Harrisonburg, Va.
           а
                                                        Main & Market Sts.
XEFC
                 100
                               Merida, Yuc.
           а
                                                        Calle 59, No. 517
560 kcs. (535.4 m.)
KFDM
                500
                       N(1)
                               Beaumont, Texas
                                                        Box 2950
KLZ
                1000
                       C(5)
                               Denver, Colo.
                                                        Shirley-Savoy Hotel
KSFO
               1000
                       C(5)
                               San Francisco, Calif.
                                                        Russ Bldg.
           а
KWTO
                               Springfield, Mo.
           а
               5000
                       D
                                                        St. Louis and Kimbrough
WFIL
                       BMX
               1000
                               Philadelphia, Pa.
                                                        638 Pub. Ledger Bldg.
                               Gary, Ind.
Columbia, S. C.
Miami, Fla.
WIND
                                                        504 Broadway
               1000
                       (5)
WIS
               1000
                       N(5)
                                                        1811 Main St.
327 N. E. First Ave.
WQAM
               1000
570 kcs.
               (526 m.)
CMCY
              10000
                              Havana, Cuba
                                                        De los Presidentes 215
                               Ft. Worth, Texas
                                                        Ft. Worth Star-Telegram
KGKO
           я
               1000
                       B(5)
                                                        915 N. Formosa Ave.
KMTR
               1000
                               Los Angeles, Calif.
KVI
                       C(5)
               1000
                               Tacoma, Wash.
                                                        Rust Bldg.
          a
                              Youngstown, Ohio
New York, N. Y.
Yankton, S. Dak.
Columbus, Ohio
WKBN
                500
                       10
                                                        17 N. Champion St.
WMCA
               1000
                                                        1697 Broadway
          a
WNAX
                       C(5)
               1000
          R
                                                        2nd and Capitol
WOSU
                750
                       1(1)
                                                        Ohio State University
                              Syracuse, N. Y.
Syracuse, N. Y.
Asheville, N. C.
WSYR
          a
               1000
                       Ba
                                                       315 Starret-Syracuse Bldg.
WSYU
               1000
                       Qa
                                                        315 Starret-Syracuse Bldg.
WWNC
                                                        Citizen-Times Co., Inc.
               1000
                       N
580 kcs. (516.9 m.)
CFPR
                  50
                              Prince Rupert, B. C.
                                                        Box 132
CHRC
                100
                               Quebec, P. O.
                                                        Victoria Hotel
ČKCL
                       F
                100
                               Toronto, Ont.
                                                        444 University Ave.
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CKUA KMJ KSAC WCHS WDBO WIBW WILL WTAG XELO XEMU	a a a a a a a a a a a a a a a a a a	500 1000 500 500 1000 1000 1000 1000 250	N 2(1) C(1) C(5) C2(5) DX R	Edmonton, Alta. Fresno, Calif. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Urbana, Ill. Worcester, Mass. Tijuana, B. Cfa. Piedras Negras, Coah.	University of Alta. Van Ness & Calaveras State College 223½ Capitol St. 563 N. Orange Ave. 11th & Topeka Blvd. University of Ill. 20 Franklin St. Box 6, San Diego, Calif.
590 k	cs.	(508.	2 m.)		
KHQ	a	1000	R(5)	Spokane, Wash.	Sprague & Post
WEEI WKZO	a a	1000 10 0 0	C(5) BDX	Boston, Mass. Kalamazoo, Mich.	CBS, Inc. Burdick Hotel
wow	a	1000	R(5)	Omaha, Nebr.	Burdick Hotel 4th and Farnum
600 k	cs.	(499.	7 m.)		
CFCF	a	500	BF	Montreal, P. Q.	1231 St. Catherine St. W.
CJOR CMQ	a	500 2500.0		Vancouver, B. C. Havana, Cuba	846 Howe St.
FQN	a	250	609	St. Pierre, Miquelon	Montey Prado Radio Club St. Pierrais U. S. Grant Hotel
KFSD	a	1000	В	St. Pierre, Miquelon San Diego, Calif. Baltimore, Md.	U. S. Grant Hotel
WCAO	a	1000	C	Baltimore, Md.	811 W. Lanvale Stratfield Hotel
WICC WMT	a a	500 1000	BM(1) Bridgeport, Conn.) Cedar Rapids, Iowa	Hotel Montrose
WREC	a	1000	C(5)	Memphis, Tenn.	Hotel Montrose Hotel Peabody
XEOJ	z	11111	1111	(1)	,
610 k	cs.	(491.	5 m.)		
KFAR	z	1000	P	Fairbanks, Alaska	
KFRC	С	1000	M(5)	San Francisco, Calif.	1000 Van Ness Ave.
WCLE	a	500	DM	Cleveland, Ohio	1224 Huron Road
WDAF	a	1000 1000	R(5)	Kansas City, Mo.	1729 Grand Ave.
WIOD	a	1000	Na	Miami, Fla. Philadelphia, Pa.	Biscayne Blvd. 35 S. Ninth St.
WMBF	a	1000	Qa	Miami, Fla.	Biscayne Blvd.
XEXM	z	500	.2	Mexico City, D. F.	Argentina y L. G.
VEVO					
XEYO	Z	500	.2	Mexico City, D. F.	5 de Mayo 19
620 kg		⁵⁰⁰ (483.6		Mexico City, D. F.	5 de Mayo 19
620 kg	es.	(483.6	6 m.)	Portland, Ore.	•
620 kg	es.	1000	6 m.) R(5) N	Portland, Ore.	5 de Mayo 19325 Adler St.711 Heard Bdg.
620 kg KGW KTAR KWFT	es.	(483.6 1000 1000 250	8 m.) R(5) N (1) P	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex.	•
620 kg KGW KTAR KWFT TIPG	es.	1000 1000 250 2000	8 m.) R(5) N (1) P	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex.	325 Adler St. 711 Heard Bdg. Tarr Bldg.
620 kg KGW KTAR KWFT TIPG WFLA WHJB	es.	1000 1000 250 2000 1000 250	R(5) N (1)P 625 Na(5) CD	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel
620 kg Kgw Ktar Kwft Tipg Wfla Whjb Wlaz	a a z z a a	1000 1000 250 2000 1000 250 500	R (5) N (1) P 625 Na (5) CD CM (1)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel
620 kg KGW KTAR KWFT TIPG WFLA WHJB	a a z z a a	1000 1000 250 2000 1000 250	R(5) N (1) P 625 Na(5) CD CM(1) Na(5)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa.	325 Adler St. 711 Heard Bdg. Tarr Bldg.
620 kg Kgw Ktar Kwft Tipg Wfla Whjb Wlßz Wsun	a z z a a a a a	1000 1000 250 2000 1000 250 500 1000	R(5) N (1)P 625 Na(5) CD CM(1) Na(5) N(5)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier
KGW KTAR KWFT TIPG WFLA WHJB WLAZ WSUN WTMJ	a z z a a a a a	(483.6 1000 1000 250 2000 1000 250 500 1000 1000 (475.9	R(5) N (1)P 625 Na(5) CD CM(1) Na(5) N(5)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St.
620 kg KGW KTAR KWFT TIPG WFLA WHIAZ WSUN WTMJ 630 kg CFCO CFCO	a z z a a a a a	(483.6 1000 1000 250 2000 1000 250 500 1000 (475.9 1000	8 m.) R(5) N (1) P 625 Na(5) CD (M(1) Na(5) N(5) 9 m.) F	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.J.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel
KGW KTAR KWFTA WFLA WHIB WLRZ WSUN WTMJ 630 kC CFCO CFCY CJRC	es.	(483.6 1000 1000 250 2000 1000 250 500 1000 1000 (475.9 100 1000 500	R(5) R(5) N (1) P 625 Na(5) CD CM(1) Na(5) N(5) 9 m.) F F F(1)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.J.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel
KGW KTAR KWFT TIPG WFLA WHJB WLAZ WSUN WTMJ 630 kG CFCO CFCY CJRC CKOV	SS. a a a a a a a a	(483.6 1000 1000 250 2000 1000 250 500 1000 1000 (475.6 100 1000 500 1000 1	8 m.) R(5) N (1) P 625 Na(5) CD (M(1) Na(5) N(5) 9 m.) F	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.J.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel
KGW KTAR KWFTAR KWFT TIPG WFLA WHIRZ WSUN WTMJ 630 kG CFCO CFCY CJRC CKOV CMCD	SS. a a a a a a a a a	(483.6 1000 1000 2500 1000 2500 1000 1000 1000 (475.6 1000 500 1000 500 1000 500 1000 500 1000 500 1000 250 1000 10	R (5) R (1) P 625 Na (5) CD CM (1) Na (5) N(5) P m.) F F (1) F	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Bangor, Maine St. Petersburg, Pla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.I. Winnipeg, Man. Kelowna, B. C. Havana, Cuba	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel
KGW KTAR KWFT TIPG WFIA WHIB WLAZ WSUN GOOD CFCO CFCO CFCO CFCO CKOV CMCD KFRU	SS. a a a a a a a a	(483.6 1000 1000 250 2000 1000 250 500 1000 1000 (475.6 100 1000 500 1000 1	R (5) R (1) P 625 Na (5) CD CM (1) Na (5) N(5) P m.) F F (1) F	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Bangor, Maine St. Petersburg, Pla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.I. Winnipeg, Man. Kelowna, B. C. Havana, Cuba	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel Royal Alexandra Hotel Water St. & Mill Ave. Calle G y 25, Vedado 9th and Elm Sts.
KGW KTAR KWFT TIPG WFLA WHJB WLRZ WSUN WTMJ 630 kc CFCO CFCY CMCD KFRU KGFX WGBF	SS. aaaaaaaaaaaaaaa	(483.6 1000 1000 250 2000 1000 250 500 1000 1000 (475.5 100 1000 500 1000 500 1000 500 1000 500 1000 500 1000 1000 500 1000	R(5) N(1) P(625 Na(5) CD (CM(1) Na(5) N(5) P m.) F F(1) F(1) D (1)	Portland, Ore. Phoenix, Ariz. Whichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Bangor, Maine St. Petersburg, Pla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.I. Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel Royal Alexandra Hotel Water St. & Mill Ave. Calle G y 25, Vedado 9th and Elm Sts.
KGW KTAR KWFT TIPG WFLA WHJB WLAZ WSUN WTMJ G30 kG CFCO CFCY CJRC CKOV CMCD KFRU KGFX WGBF WMAL	SS. aaaaaaaaaaaaaaaaaaaa	(483.6 1000 1000 2500 2000 1000 2500 500 1000 (475.9 100 1000 500 1000 500 200 500 200 200 200 200	R(5) N(1) P(625 Na(5) CD CM(1) Na(5) N(5) P m.) F F(1) D NE(1) D NE(1) D NE(1)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.I. Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel Royal Alexandra Hotel Water St. & Mill Ave. Calle G y 25, Vedado 9th and Elm Sts. Box 573 519 Vine St. National Press Bldg.
KGW KTAR KWFT TIPG WFLA WHJB WLRZ WSUN WTMJ 630 kc CFCO CFCY CMCD KFRU KGFX WGBF	CS. aaaaaaaaaaaaaaaaaa	(483.6 1000 1000 250 2000 1000 250 500 1000 1000 (475.5 100 1000 500 1000 500 1000 500 1000 500 1000 500 1000 1000 500 1000	R(5) N(1) P(625 Na(5) CD (CM(1) Na(5) N(5) P m.) F F(1) F(1) D (1)	Portland, Ore. Phoenix, Ariz. Whichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Bangor, Maine St. Petersburg, Pla. Milwaukee, Wis. Chatham, Ont. Charlottetown, P.E.I. Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind.	325 Adler St. 711 Heard Bdg. Tarr Bldg. Penn Albert Hotel 100 Main St. Recreation Pier 333 W. State St. Wm. Pitt Hotel Canadian Nat'l Hotel Royal Alexandra Hotel Water St. & Mill Ave. Calle G y 25, Vedado 9th and Elm Sts.

640 kcs.	(46 8.5	m.)	
KFI & WGAN z WHKC a WOI a XEBX z YSS a	500 N 5000 I 250 .	Los Angeles, Calif DP Portland, Me. Columbus, Ohio Ames, Iowa Sabinas, Coah. San Salvador, E. S	Port. Brdcstg. System 22 E. Gay St. College of Agriculture Domicilio conocido
6 50 kcs.	(461.3	m.)	
KIRO z TIX z WSM a	250 G 1000 . 50000 K	Q Seattle, Wash. San Jose, Costa R MN Nashville, Tenn.	66 Cobb Bldg. ica National Bldg.
660 kcs.	(454.3	m.)	
WAAW a WEAF a XEAL z XEAO a	500 II 50000 F 1000 . 250 .		19th and Harney 30 Rockefeller Plaza F. Apartado 1903 Altamirano 156
670 kcs.	(447.5	m.)	7
WMAQ a	50000 F	Chicago, Ill.	Merchandise Mart
680 kcs.	(440.9	m.)	
CMBQ z CMCG a KFEQ a KPO a VAS a VOWR c WLAW a WPTF a	50000 F 2000 6 500 6 1000 I	Havana, Cuba Havana, Cuba St. Joseph, Mo. San Francisco, Ca Glace Bay, N. S. St. John's, Niid. Lawrence, Mass. N. Raleigh, N. C.	Palacio del Centro Gallego Calle Malecon 340 Schneider Bidg. iif. 111 Sutter St. Canadian Marconi Co. Box 157 278 Essex St. 324 Fayetteville St.
690 kcs.	(434.5	m.)	7
CFRB a CJCJ a XET a	10000 C 100 H 5000	Toronto, Ont.	622 Fleet St. 124 - 7th Ave., W. Apartado 203
700 kcs.	(428.3	m.)	7
WLW a	500000 J	KMN Cincinnati, Ohio	1329 Arlington St.
710 kcs.	(422.3	m.)	
KIRO a KMPC a WOR a	500 I	CHJ Seattle, Wash. L Beverly Hills, Ca KM Newark, N. J.	66 Cobb Bldg. lif. 9631 Wilshire Blvd. 147 Market St.
720 kcs.	(416.4	m.)	
CMK a WGN a XEH a		Havana, Cuba KM Chicago, III. Monterrey, N. L.	Aptdo. 770 441 N. Michigan Ave. Padre Mier 215
730 kcs.	(410.7	m.)	
	1000 5000 100 10000	F London, Ont. F Edmonton, Alta. C Montreal, P. Q. F Fort William, On Havana, Cuba P Hoteras Negras, C. Rosarito Beach, B	Radio City pah. Box 360

740 K	cs.	(405.	2 m.)		
KMMJ KTRB WHEB WSB	a a a	1000 250 250 50000	D D D R	Clay Center, Nebr. Modesto, Calif. Portsmouth, N. H. Atlanta, Ga.	KMMJ, Inc. Box 405 Box 522 Biltmore Hotel
750 kg	cs.	(399.	8 m.)		
CMBL	z	500	9.77	Havana, Cuba	Calle 25 No. 445
KGU WJR	a a	2500 50000	LN C	Honolulu, Hawaii Detroit, Mich.	Advertiser Square Fisher Bldg.
XĚAA XEAM	a z	200 25	1861	Mexicali, B. Cfa. Matamoros, Tams.	Box 22, Calexico, Calif. Morelos y 5ta.
760 kg	cs.	(394.	5 m.)		
KXA WBAL	a a	250 2500	(.5) X	Seattle, Wash.	312 Bigelow Bldg.
WCAL	a	1000	2(5)	Baltimore, Md. Northfield, Minn. St. Louis, Mo.	Lexington Bldg. St. Olaf College
WEW	a	1000	D	St. Louis, Mo.	221 N. Grand Blvd. 30 Rockefeller Plaza
WJZ WLB	a a	50000 1000	BSy 2(5)	New York, N. Y. Minneapolis, Minn.	30 Rocketeller Plaza University of Minn.
XEOK	a	2500		Tijuana, B. Cla.	Calle 5ta, 312
770 kg		•	4 m.)		
CMBF KFAB	z a	5000 10000	CSvXZ	Havana, Cuba Z Lincoln, Nebr.	Edif. Metropolitana 732 Hotel Lincoln
WBBM	a	50000	CSy		410 N. Michigan Ave.
780 kg		(384.			
CHWK	Ь	100	F	Chilliwack, B. C.	Box 507
CKSO KEHE	a	1000 1000	F	Sudbury, Ont.	Grand Theater Bldg. 214 S. Vermont Ave.
CKSO KEHE KFDY	a a	1000 1000 1000	F F (5) D	Sudbury, Ont.	Grand Theater Bldg. 214 S. Vermont Ave. Box L
CKSO KEHE KFDY KFQD	a a a C	1000 1000	(5) D	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage. Alaska	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave.
CKSO KEHE KFDY KFQD KGHL KWLK	a a c a z	1000 1000 1000 250 1000 250	F (5) D N(5)	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp.
CKSO KEHE KFDY KFQD KGHL KWLK WEAN	a a c a z a	1000 1000 1000 250 1000 250 1000	F (5) D N(5) DP BM(5	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash.) Providence, R. I.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC	a a c a z a z a	1000 1000 1000 250 1000 250 1000 1000 250	F (5) D D DP BM(5) R(5) DP	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash.) Providence, R. I. Memphis, Tenn.	Grand Theater Bldg. 214 S. Vermont Ave. Box L. 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co.
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC WTAR	a a c a z a z a z	1000 1000 1000 250 1000 250 1000 1000 250 1000	F (5) D N(5) DP BM(5 R(5)	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va.	Grand Theater Bldg. 214 S. Vermont Ave. Box L. 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Commierce Bldg.
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC	a a c a z a z a	1000 1000 1000 250 1000 250 1000 1000 250	F (5) D D DP BM(5) R(5) DP	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash.) Providence, R. I. Memphis, Tenn.	Grand Theater Bldg. 214 S. Vermont Ave. Box L. 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co.
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC WTAR XEN	a a c a z a a z a a	1000 1000 1000 250 1000 250 1000 1000 10	F (5) D	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash.) Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Comnierce Bldg. Venustiano Carranza 30
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC WTAR XEN	a a a c a z a a z a a z a a	1000 1000 1000 250 1000 250 1000 1000 10	F (5) D N(5) DP BM(5 R(5) DP N	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Commerce Bldg. Venustiano Carranza 30
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC WTAR XEN 790 kC	a a c a z a a z a a	1000 1000 1000 250 1000 250 1000 1000 10	F (5) D	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Commerce Bldg. Venustiano Carranza 30
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WMC WPIC WTAR XEN 790 kG	a a a c a z a a z a a a z a a	1000 1000 1000 250 1000 250 1000 1000 10	F (5) D DP BM(5) R(5) DP N S M.)	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Comnierce Bldg. Venustiano Carranza 30
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WEAN WHC WPIC WTAR XEN 790 kC CMGH KGO KOAM WGY	a a a c a z a a z a a z a z a	1000 1000 250 1000 250 1000 1000 1000 10	F (5) D N(5) DP BM(5 R(5) DP N 5 m.)	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif. Pittsburg, Kans. Schenectady, N. Y.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdcstg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Comnierce Bldg. Venustiano Carranza 30 Box 87 111 Sutter St. 404 Commerce Bldg. 1 River Road
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WPIC WTAR XEN 790 kC CMGH KGO KOAM WGY 800 kC	a a a c a z a a z a a z a a z a a z a a z a a z a a z a a z a	1000 1000 250 1000 250 1000 1000 1000 10	F (5) D D P BM (5 R (5) D P N S M .) 5 m.)	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif. Pittsburg, Kans. Schenectady, N. Y. Ciudad Trujillo, D.R.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdcstg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Comnierce Bldg. Venustiano Carranza 30 Box 87 111 Sutter St. 404 Commerce Bldg. 1 River Road
CKSO KEHE KFDY KFQD KGHL KWLK WEAN WPIC WTAR XEN 790 kC CMGH KGO KOAM WGY 800 kC HIX WBAP WFAA	a a a c a z a a z a a z a z a	1000 1000 250 1000 250 1000 250 1000 100	F (5) D (5) DP (BM (5) R (5) DP (N) DP (N) DP (N) DP (N) B (1) B (Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif. Pittsburg, Kans. Schenetady, N. Y. Ciudad Trujillo, D.R. Fort Worth, Tex. Dallas, Texas	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Commerce Bldg. Venustiano Carranza 30 Box 87 111 Sutter St. 404 Commerce Bldg. 1 River Road J. R. Saladin Carter Publications, Inc. Baker Hotel
CKSO KEHE KFDY KFQD KGHI KWIK WEAN WMC WPIC WTAR XEN 790 kC CMGH KGO KOAM WGY 800 kC	a a a c a z a a z a a z a a z a a z a a z a a z a a z a a z a a z a a z a	1000 1000 250 1000 250 1000 1000 250 1000 100	F (5) D N(5) DP BM(5) R(5) DP N S m.) 5 m.) 8 m.)	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif. Pittsburg, Kans. Schenectady, N. Y. Ciudad Trujillo, D.R. Fort Worth, Tex.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Commerce Bldg. Venustiano Carranza 30 Box 87 111 Sutter St. 404 Commerce Bldg. 1 River Road J. R. Saladin Carter Publications, Inc.
CKSO KEHE KFDY KFQD KGHL WEAN WEAN VFIC WTAR XEN 790 kc CMGH KGO KOAM WGY 800 kc HIX WBAP WFAA WTBO	a a a C a z a a z a a z a a z a a a a a	1000 1000 250 1000 250 1000 250 1000 250 1000 100	F (5) D (5) DP BM(5 R(5) DP N	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif. Pittsburg, Kans. Schenectady, N. Y. Ciudad Trujillo, D.R. Fort Worth, Tex. Dallas, Texas Cumberland, Md.	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Comnierce Bldg. Venustiano Carranza 30 Box 87 111 Sutter St. 404 Commerce Bldg. 1 River Road J. R. Saladin Carter Publications, Inc. Baker Hotel Commercial Bank Bldg.
CKSO KEHE KFDY KFQD KGHI KWIK WEAN WHC WTAR XEN 790 kC CMGH KGO KOAM WGY 800 kC HIX WBAP WFAA WTBO	a a a C a z a a z a a z a a z a a a a a	1000 1000 1000 250 1000 250 1000 1000 10	F (5) D (5) DP BM(5 R(5) DP N	Sudbury, Ont. Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash. Providence, R. I. Memphis, Tenn. Sharon, Pa. Norfolk, Va. Mexico City, D. F. Matanzas, Cuba San Francisco, Calif. Pittsburg, Kans. Schenetady, N. Y. Ciudad Trujillo, D.R. Fort Worth, Tex. Dallas, Texas	Grand Theater Bldg. 214 S. Vermont Ave. Box L 411 Fourth Ave. 5th and Broadway Twin City Brdestg. Corp. New Crown Hotel Hotel Gayoso Sharon Herald Pub. Co. Bank of Commerce Bldg. Venustiano Carranza 30 Box 87 111 Sutter St. 404 Commerce Bldg. 1 River Road J. R. Saladin Carter Publications, Inc. Baker Hotel

XEBZ XEDF	a a	100 100		Mexico City, D. F. Nuevo Laredo, Tams.	Flora Av Chapultepec Gral. Gonzalez 3006
820 kg	cs.	(365.	6 m.)		
CMHW WHAS XEBG	a a z	100 50000 1000	c	Santa Clara, Cuba Louisville, Ky. Tijuana, B. Cfa.	Marta Abreu 2 300 W. Liberty St. Av. "E" 268
830 k	cs.	(361.	2 m.)		
CMJX KOA WEEU WHDH WRUF	a a a a	500 50000 1000 1000 5000	R D L L	Camaguey, Cuba Denver, Colo. Reading, Pa. Boston, Mass. Gainesville, Fla.	Box 23 1625 California St. Berks Brdcstg. Co. 62 Boylston University of Fla.
840 kg	cs.	(356.	9 m.)		
CBL CFQC VOGY XERA	a a a	50000 1000 400 250000	F F	Toronto, Ont. Saskatoon, Sask. St. Johns, Nfld. Villa Acuna, Coah.	805 Davenport Rd. 216 First Ave., N. Newfoundland Hotel Brinkley Hosp., Del Rio, Texas
850 k	cs.	(352.	7 m.)		
CMCM KIEV KWKH WESG WKAR WWL	a a a a a	250 250 1000 1000 1000 1000	D GQ CDH DX CX	Havana, Cuba Glendale, Calif. Shreveport, La. Elmira, N. Y. E. Lansing, Mich. New Orleans, La.	Apartado 33 Cannon System, Ltd. P. O. Box 17 Mark Twain Hotel Mich. State College Roosevelt Hotel
860 k	cs.	(348	.6 m.)		
WABC WBOQ WHB XEMO XENC	a a a a	50000 50000 1000 5000 50	Ca Qa DM	New York, N. Y. New York, N. Y. Kansas City, Mo. Tijuana, B. Cfa. Mexico City, D. F.	485 Madison Ave. 485 Madison Ave. Scarritt Bldg. Box 202, San Diego, Cal. Esabel la Catolica, Desp. 3
870 k	cs.	(344.	6 m.)		
WENR WLS XEFB XEJW	a a a z	50000	Ba Ba	Chicago, Ill. Chicago, Ill. Monterrey, N. L. Mexico City, D. F.	Merchandise Mart 1230 Washington Blvd. 5 de Mayo Ote. 112 San Juan de Letran 81
880 k	cs.	(340.	7 m.)		
CBO CFJC CMW KFKA KLX KPOF WCOC WGBI WQAN WRNL WSUI	a	500 1000 1000 1000 500 500	F F X 2M(1 ² C C1(1) 1(1) DX (1)	Ottawa, Ont. Kamloops, B. C. Havana, Cuba) Greeley, Colo. Oakland, Calif. Denver, Colo. Meridian, Miss. Scranton, Pa. Scranton, Pa. Richmond, Va. Iowa City, Iowa	Chateau Laurier Hotel Wilcox-Hall Bldg. Pasco de Marti 105 Box 735 Tribune Bldg. Co. 1845 Champa St. Box 603 1000 Wyoming Ave. 149 Penn Ave. 4th and Grace Sts. University of Iowa
890 k	ccs	. (336	.9 m.		
KARK KFNF KFPY KUSD	a a a	500 1000	N(1) 2X(1 C(5) 2	Little Rock, Ark.) Shenandoah, Iowa Spokane, Wash. Vermillion, S. Dak.	Nat'l Standard Bldg, 407 Sycamore St. Symons Bldg. University of S. Dak.

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WBAA	а	500	(1)	W. Lafayette, Ind.	Purdue University Ansley Hotel
WGST WJAR	a a	1000 1000	C(5) R(5)	Atlanta, Ga. Providence, R. I.	Meybossett St.
WMMN	a	500	CX(1)	Providence, R. I. Fairmont, W. Va.	Weybossett St. Monongahela Valley Brdcstg. Co.
XEK XEW	a a	100 50000		Mexico City, D. F. Mexico City, D. F.	Brdcstg. Co. Jalapa No. 51 Box 2516
900 kg	s.	(333.	1 m.)		
KGBU	a	500	X	Ketchikan, Alaska	107-111 Front St.
KHJ KSEI	a a	1000 250	M(5) N(1)	Los Angeles, Calif.	107-111 Front St. 7th and Bixel Sts. 141 S. 6th St. Hotel Statler
WBEN	a	1000	R(5)	Pocatello, Idaho Buffalo, N. Y. New Haven, Conn.	Hotel Statler
WELI	a	500	D	New Haven, Conn.	City Brdcstg. Corp. Francis Scott Key Hotel
WFMD WJAX	a a	500 1000	D N(5)	Frederick, Md. Jacksonville, Fla.	1 Broadcast Place
WKY	a	1000	N(5)	Oklahoma City, Okla.	Skirvin Tower Hotel
WLBL	a	5000	D	Stevens Point, Wis.	Box 233 510 E. Main
WTAD	a	1000	D	Quincy, Ill.	310 E. Main
910 kg		•	-		
CB F CJAT	a a	50000 1000	FN F	Montreal, P. Q. Trail, B. C.	1231 St. Catherines, W Box 1959
CKY	a	15000	F	Winnipeg, Man.	Sherbrooke St.
XENT	а	150000		Nuevo Laredo, Tams.	Box 410, Laredo, Tex.
920 kc	s.	(325.	9 m.)		
CMX	a	1000	X Ma	Havana, Cuba	Apartado 32
KFEL KOMO	a a	500 1000	R(5)	Denver, Colo. Seattle, Wash.	Albany Hotel Skinner Bldg. Lamar Hotel
KPRC	a	1000	R(5)	Houston, Texas	Lamar Hotel
KVOD	a	500	Ba D	Denver, Colo.	Continental Oil Bldg. Palmer House
WAAF WORL	a a	1000 500	Ď	Chicago, Ill. Boston, Mass.	Brdcstg. Serv. Org.
WPEN	a	1000		Philadelphia, Pa. Philadelphia, Pa. Spartanburg, S. C.	22nd and Walnut Sts.
WRAX	a	1000	Q	Philadelphia, Pa.	217 S. Broad St. Ravenel & Avant Sts.
WSPA WWJ	a a	1000 5000	D R	Detroit, Mich.	616 Lafayette Blvd.
930 kg	es.	(322.	4 m.)		
CFAC	a	1000	F	Calgary, Alta.	1006 Southam Bldg.
CFCH	a	100	F	North Bay, Ont.	Northern Brdc. Co.
CFLC CHNS	a a	100 1000	F	Prescott, Ont. Halifax, N. S.	307 George St. Lord Nelson Hotel
CKPC	a	100	F	Brantford, Ont.	Arcade Bldg. Earl E. May Co.
KMA	a	1000	B(5)	Shenandoah, Iowa	Earl E. May Co.
KROW WBRC	a a	1000 1000	R(5)	Oakland, Calif. Birmingham, Ala.	464 - 19th St. Bankhead Hotel
WDBI	a	1000	Ĉ(5)	Roanoke, Va.	Box 150
XEBH	а	500	E 121	Hermosillo, Son.	Apartado 68
940 k	cs	. (319	m.)		
KOIN	a	1000	C(5)	Portland, Ore.	New Heathman Hotel
WAAT WAVE	a	500 1000	D D	Jersey City, N. J. Louisville, Ky.	50 Journal Sq. 1525 Brown Hotel
WCSH	a	1000	R(2.5)	Portland, Me. Fargo, N. Dak. Madison, Wis.	1525 Brown Hotel The Eastland 118 Broadway University of Wis.
WDAY	a	1000	N(5)	Fargo, N. Dak.	118 Broadway
WHA	2	5000	D D	Madison, Wis.	221 Center St.
WICA XEFO	a	250 5000		Ashtabula, Ohio Mexico City, D. F.	221 Center 5t.
950 kc	es.	(315.	6 m.)		
Cloc	2	100	F	Lethbridge, Alta.	Marquis Hotel

CMBC CRCK KFWB KMBC WHAL WRC	z 150 a 1000 a 1000 a 1000 z 500 a 1000	F (5) C(5) DP R(5)	Havana, Cuba Quebec, P. Q. Hollywood, Calif. Kansas City, Mo. Saginaw, Mich. Washington, D. C.	Apartado 132 Chateau Frontenac Hotel 5833 Fernwood Ave. Pickwick Hotel Gross & Shields Nat'l Press Bldg.			
960 kg	s. (312	.3 m.)					
CFRN CHNC CMKS CRCY XEAW	a 100 a 1000 z 60 c 100 c 100000	F F	Edmonton, Alta. New Carlisle, P. Q. Guantanamo, Cuba Toronto, Ont. Reynosa, Tams.	C. P. R. Bldg. Box 101 Edificio Diaz 805 Davenport Road Box 948, McAllen, Tex.			
970 kg	s. (309	.1 m.)					
CMBY KJR WCFL WIBG	z 200 a 5000 a 5000 a 100	B N D	Havana, Cuba Seattle, Wash. Chicago, Ill. Glenside, Pa.	Calle Infanta 132 Skinner Bldg. 666 Lake Shore Drive Seaboard Brdcstg. Corp.			
980 k	cs. (30	6 m.)					
KDKA Xeac Xefe	b 50000 a 1000 z 250	B Z	Pittsburgh, Pa. Tijuana, B. Cfa. Nuevo Laredo, Tams.	Grant Bldg. Av. Mexico 12 Gonzales y Riva Palacio			
990 ka	s. (302	8 m.)					
CMKL WBZ WBZA XEAF XES	z 60 a 50000 a 1000 a 750 a 250	BSy BSy	Bayamo, Cuba Boston, Mass. Springfield, Mass. Nogales, Son. Tampico, Tams.	Cespedes 26 Hotel Bradford Hotel Kimball Hotel Central Box 309			
1000 k	cs. (29	9.8 m	.)				
CMBZ KFVD VOCM WHO XEBI	a 500 a 1000 z 200 a 50000 a 25	X(1) L 1006 KR	Havana, Cuba Los Angeles, Calif. St. John's, Nfld. Des Moines, Iowa Aguascalientes, Ags.	Apartado 866 Standard Brdestg. Co. St. John's Eve. Telegram 914 Walnut St. Primo Verdad 14			
1010 k	cs. (29	6.9 m	.)				
CHML CKCD CKCK CKCO CKIC CKWX CMJA KGGF KOW WHN WNAD WNAD XEFQ XEU	a 100 a 1000 a 1000 a 500 a 1000 a 500 a 1000 a 10000 a 10000 a 10000 a 10000 a 500 a 250	F 1 F F 1 2M M (5) 2 C(5)	Hamilton, Ont. Vancouver, B. C. Regina, Sask. Ottawa, Ont. Wolfville, N. S. Vancouver, B. C. Camaguey, Cuba Coffeyville, Kans. San Jose, Calif. New York, N. Y. Norman, Okla. Knoxville, Tenn. Cananea, Son. Veracruz, Ver.	Pigott Bldg. 198 Hastings St., W. 1853 Hamilton St. 272 Somerset St., W. Acadia University 801 W. Georgia St. Box 64 Journal Bldg. 87 E. San Antonio St. 1540 Broadway University of Okla. Hotel Johnson Sonora 97 Independencia 98			
1020 kcs. (293.9 m.)							

1030 1	cs.	(291	.1 m)	
CFCN CJBR CKLW CMCK XEB	a z a a	10000 1000 5000 5000 10000	F FM	Calgary, Alta. Rimouski, P. Q. Windsor, Ont. Havana, Cuba Mexico City, D. F.	Central Trust Bldg. J. A. Brillant Guaranty Trust Bldg. San Miguel 86 Apartado 79-44
1040 1	CS.	. (2 88	3.3 m.	.)	
KRI.D KTHS KWJ) KYOS WESG WTIC	a a b z a	10000 1000 500 250 1000 50000	CX GQ D H GQ R	Dallas, Texas Hot Springs, Ark. Merced, Calif. Portland, Ore. Elmira, N. Y. Hartford, Conn.	Adolphus Hotel P. O. Box 86 622 Salmon St. Merced Star Pub. Co. Mark Twain Hotel 26 Grove St.
1050 l	ccs.	. (2 85	5.5 m	.)	
CBM CMKD HIT KFBI KNX WEAU WGVA	a a z a a z z	5000 250 50 5000 50000 1000	FR L C D D	Montreal, P. Q. Santiago, Cuba Ciudad Trujillo, D.R. Abilene, Kans. Los Angeles, Calif. Eau Claire, Wis. Indianapolis, Ind.	1231 St. Catherines W. Box 23 Apartado 1105 Box 345 CBS, Inc. Central Brdcstg. Co. Indiana Brdcstg. Corp.
1060 1	KCS.	. (2 82	2.8 m.)	
KTHS KWJJ VOAC WBAL WJAG W3XJ	z z z a a z	1000 500 40 10000 1000	HN GQ 1065 BHM DH P	Hot Springs, Ark. Portland, Ore. St. John's. Nfld. Baltimore, Md. Norfolk, Nebr. College Park. Md.	Box 86 622 Salmon St. Lexington Bldg. Norfolk Daily News McNary & Chambers
1070 1	ccs.	(280	.2 m.)	
CMBX CMHA KJBS WCAZ WTAM	a z a a a	150 50 500 100 50000	L D R	Havana, Cuba Sagua la Grande, Cuba San Francisco, Calif. Carthage, Ill. Cleveland, Ohio	San Miguel 194-altos Carrillo No. 31 1380 Bush St. 502 Wabash Ave. 1367 E. 6th St.
1080 1	CS.	(277	.6 m.)	
CMJQ WBT WCBD WMBI XEBA XEBK XEDP	2 2 2 2 2 2 2	200 50000 5000 5000 20 100 500	C 1L 1L	Camaguey, Cuba Charlotte, N. C. Chicago, Ill. Chicago, Ill. Guzman, Jal. Nuevo Laredo, Tams. Mexico City, D. F.	Wilder Bldg. 128 N. Pulaski Road 153 Institute Place Independencia 32 Bravo y Guerrero Bucareli 12
1090 1	CS.	(275	.1 m.)	
HIN KMOX	a 2	740 50000	Ċ	Ciudad Trujillo, D.R. St. Louis, Mo.	Frank Hatton Mart Bldg.
1100 1	ccs	. (272	2.6 m	.)	
CBR KGDM KWKH WBIL WPG XEL	a a a a a z	5000 1000 10000 5000 5000 250	F DM • CH 1 C1	Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	C.N.R. Station Bldg. 42 S. California St. Box 17 132 W. 43rd St. Convention Hall Plaza de San Juan 15
1110 I	CS.	(270).1 m.	Havana, Cuba	Estevez 4
J	•	,.,		,	

KSOO Wrva	a a	5000 50000	I.N CM	Sioux Falls, S. Dak. Richmond, Va.	Carpenter Hotel Hotel Richmond
1120 k	cs	(267	7.7 m.	.)	
CHLP CHSJ CKOC CKX CMGF CMKM CRCS KFIO KFSG KRKD KRSC KTBC WCOP WDEL WISN WIBO WTAW	a a a a a a a a a a a a a a a a	100 500 500 1000 1000 100 100 500 250 1000 500 250 250 500 500	F F(1) F(1) F F D a(2.5) a(2.5) DP D C(1) B L	Montreal, P. Q. St. John, N. B. Hamilton, Ont. Brandon, Man. Matanzas, Cuba Manzanillo, Cuba Chicoutimi, P. Q. Spokane, Wash. Los Angeles, Calif. Los Angeles, Calif. Seattle, Wash. Austin, Texas Boston, Mass. Wilmington, Del. Milwaukee, Wis. Baton Rouge, La. College Station, Tex.	180 St. Catherines E. Admiral Beatty Hotel King Wm. & John Sts. Rosser Ave. Gral. Betancourt 51 Box 4 4 Rue Larouche Zieglar Bldg. 1100 Glendale Blvd. 312 Spring Arcade Wash. Athletic Club State Capitol Brdc, Assn. Copley Plaza Hotel 10th and King Sts. 231 W. Michigan St. 334 Florida St. Agricultural Col.
1130 k	ccs.	(265	.3 m	.)	
KSL WJJD WOV XEJP	a a a z	150 50000 20000 1000 100	C L D	Ciego de Avila, Cuba Salt Lake City, Utah Chicago, Ill. New York, N. Y. Mexico City, D. F.	Box 28 Vermont Bldg. 201 N. Wells St. 132 W. 43rd St. 5 de Febrero 128
1140	kcs	s. (2 6	3 m	.)	
CMCW KVOO WAPI WSPR	b a a a	150 25000 5000 5000	N C DM	Havana, Cuba Tulsa, Okla. Birmingham, Ala. Springfield, Mass.	Malecon 54, esq. Galiano Wright Bldg. Ala. State College 63 Chestnut St.
1150 l	ccs	. (260).7 m	.)	
CM IF WHAM XEBP XEC XEDW	z a z a z	200 50000 250 100 20	B	Camaguey, Cuba Rochester, N. Y. Durango, Dgo. Tijuana, B. Cfa. Minatitlan, Ver.	Republica 88 Sagamore Hotel Pino Suarez 412 Teatro Zaragoza Av. Hidalgo 40
1160 l	ccs	. (258	3.5 m	.)	
CMHJ CMKG WOWO WWVA XEAS XED XEFM XEP	a 2 a a a a z a	100 10000 5000 100 2500 20 500	tB tC	Cienfuegos, Cuba Santiago, Cuba Fort Wayne, Ind. Wheeling, W. Va. Saltillo Coah. Guadalajara, Jal. Leon, Gto. Juarez, Chih.	Box 112 Westinghouse Station Hawley Bldg. Morelos 15 Apartado 197 Aquiles Serdan 7 16 de Septiembre 111
1170 1	ccs	. (256	3.3 m	.)	
CMBS WCAU XEXX	a a z	150 50000 1000	C X	Havana, Cuba Philadelphia, Pa. Mexico City, D. F.	Calzada y "H" St. 1622 Chestnut St.
1180 1	ccs	. (254	1.1 m	.)	
CMJO KEX	a a	59 5000	2B	Ciego de Avila, Cuba Portland, Ore.	Maceo y C. Central Oregonian Bldg.

KOB WDGY	a	10000	2N	Albuquerque, N. Mex. Minneapolis, Min.	Alb. Brdestg. Co.				
WINS	a	1000		Minneapolis, Min. New York, N. Y.	909 W. Broadway 114 E. 58th St.				
WMAZ XEFA	z	1000 500	C(5)	Macon, Ga. Tacuba, D. F.	211 Cotton Ave. Mar Mediterraneo 236				
1190	kcs	s. (2 8	5 2 m	.)					
CMKX KTKC	z a	75 250	D	Santiago, Cuba Visalia, Calif.	C. No. 3, Rto. E. Fomento Tulare-Kings Counties Assn.				
VONF	a	500	1195	St. John's, Nfld.	Box 135				
WATR Woai	a a	100 50000	DXZ N	Waterbury, Conn.	47 Grand St. 1038 Navarro				
WSAZ	a	1000	Ĺ	San Antonio, Tex. Huntington, W. Va.	Box 729				
1200 kcs. (249.9 m.)									
CFGP	z	100	2000	Grande Prairie, Alta.	906 McLeod B., Ermonton				
CHAB	a	100	F	Moose Jaw, Sask. Wingham, Ont.	Grant Hall Hotel				
CKNX CKTB	b	100 100	F	St. Catharines, Ont.	Box 65				
CMCO	a	150	_	Harrana Cula	King St. Calle Oficios 116				
KADA	a	100	M	Ada, Okla. Jonesboro, Ark. PLewistown, Mont. Sioux Falls, S. Dak. Marshalltown, Iowa	C. C. Morris W. J. Beard				
KBTM	a	100	D	Jonesboro, Ark.	W. J. Beard				
KDNC KELO	z z	100 100	N (.25)1	Siony Falls S Dak	Democrat-News Co.				
KFIB	a	100	(.25)	Marshalltown, Iowa	S. F. Broadcast Assn. 1603 W. Main St.				
KFJB KFXD KFXJ	a	100	(.2)	Nampa, Idaho	Box 891				
KFXJ	a	100	(.25)	Nampa, Idaho Grand Junction, Colo.	Hillcrest Manor 2nd and Sherman				
KGCÍ KGDE	z c	100 100	DP (.25)	Coeur d'Alene, Idaho Fergus Falls, Minn.	2nd and Sherman				
KGEK	a	100	L	Sterling, Colo.	109 W 2nd St				
KGFJ	a	100		Los Angeles, Calif.	Charles L. Jaren 109 W. 2nd St. 1417 S. Figueroa				
KGHI	a	100	(.25)	Los Angeles, Calif. Little Rock, Ark. Greenville, Tex.	Pyramid Life Bldg.				
KGVL KMLB	z a	100 100	DP (.25)	Monroe, La.	Hunt Brdcstg. Assn.				
Koos	a	100	(.25)	Marshfield, Ore.	Francis Hotel KOOS, Inc.				
KSUN	а	100	(.25)	Lowell, Ariz.	Drawer C				
KVCV KVEC	a	100		Redding, Calif.	Golden Empire Brd. Co.				
KVOS	a b	100 100	(.25) M	San Luis Obispo, Calif. Bellingham, Wash,	Valley Elec. Co. 115 W. Magnolía St.				
KWG	a	100	Ñ	Stockton, Calif.	Medico Dental Bldg.				
KWNO	z	250	D	Stockton, Calif. Winona, Minn.	Winona Radio Service				
WABI WAIM	a a	100 100	(.25)	Bangor, Maine	Community Brdcstg. Serv.				
WAYX	a	100	C (.25)	Anderson, S. C. Waveross, Ga.	Anderson College Box 714				
WBBZ	a	100	M(.25) Ponca City, Okla. Huntsville, Ala.	Box 714 615 W. Grand Wilton H. Pollard				
WBHP	a	100	2.12	Huntsville, Ala.	Wilton H. Pollard				
WBNO WCAT	a a	100 100	2 D	New Orleans, La.	St. Charles Hotel School of Mines				
WCAX	a	100	(.25)	Rapid City, S. Dak. Burlington, Vt. Janesville, Wis. Cincinnati, Ohio	203 College St				
WCLO	a	100	(.25)	Janesville, Wis.	203 College St. 200 E. Milwaukee St.				
WCPO	a	100	(.25)	Cincinnati, Ohio	Scripps-Howard Radio 1507 Tower Ave. Elmira Star-Gazette				
WDSM WENY	Z Z	100 250	P DP	Superior, Wis. Elmira, N. Y.	1507 Tower Ave.				
WEST	a	100	3(,25)	Easton, Pa.	Associated Brdcasters.				
WFAM	a	100	4	Easton, Pa. South Bend, Ind.	225 W. Colfax Ave. Jonas Weiland				
WFTC	a	100	(.25)	Kinston, N. C.	Jonas Weiland				
WHBC WHBY	a a	100 100	(.25)	Kinston, N. C. Canton, Ohio Green Bay, Wis. Utica. N. Y.	319 Tuscola St., W. Bellin Bldg.				
WIBX	a	100	C(.25)	Utica N. Y.	1st Nat'l. Bank Bldg.				
WIL	a	100	(.2)	St. Louis, Mo.	Melbourne Hotel				
WJBC WJBL	a	100	5(.25)	Bloomington, Ill.	Melbourne Hotel Kaskaskia Brdcstg. Co.				
WIBW	а а	100 100	2	Decatur, Ill.	Gushard Bldg. Godchaux Bldg.				
Wihi.	z	100	(.25) F	Johnson City, Tenn.	Birdwell & Lancaster				
WINO	а	100	C(.25)	W. Palm Beach, Fla.	Box 189				
WINO WIRD WKBO	a	250	D	New Orleans, La. Johnson City, Tenn. W. Palm Beach, Fla. Tuscalposa, Ala. Harrisburg, Pa.	James R. Doss, Ir. Penn Harris Hotel				
WIVA	a a	100 100	(25)	Lynchburg, Va.	Allied Arts Bldg.				
		.00	(.2)	Zinchoute, va.	Timed Tites 100.g.				

WMFR	2	100	D High Point, N. C.	WMFR, Inc.
WMPC	a	100	(.25) Lapeer, Mich.	81 Liberty St.
WOLS	Z	100	D Florence, S. C.	Sanborn Hotel
WRBL	a 2	100 250	(.25) Columbus, Ga. D Salisbury, Md. M Hartford, Conn.	Royal Theater Bldg. 321 E. Main St. 983 Main St.
WSAL WTHT	a a	100	M Hartford, Conn.	983 Main St.
WTOL	a	100	D Toledo, Ohio	Community Brdcstg. Co.
WWAE	a	100	4 Hammond, Ind. Chihuahua, Chih.	Community Brdcstg. Co. Hammond-Calumet Corp.
XEBU	Z	50	Chihuahua, Chih.	Apartado 157
1010		/O /F	20 >	
1210	KCS.	(247	'.8 m.)	
CHLT	z	100	Sherbrooke, P. Q.	3 Marquette St.
CICS	a	50	Stratford, Ont.	Frank M. Squires Dr. J. A. Urquahart
CJCU	z	50	Aklavik, N. W. T.	Dr. J. A. Urquahart
CKBI	a	100	Stratford, Ont. Aklavik, N. W. T. Prince Albert, Sask. Hull, P. Q. Cobalt, Ont.	Sanderson Bldg.
CKCH CKMC	a a	100 50	Cobalt Opt	85 Champlain Ave. R. L. MacAdam
CMHI	a	250	Cobalt, Ont. Santa Clara, Cuba (.25) Alexandria, La.	Independencia 34
KALB	a	100	(25) Alexandria, La.	Box 788
KANS	a	100	N Wichita, Kans.	KANS Brdcstg. Co.
KASA	c	100	Elk City, Okla.	Casa Grande Hotel 1025 Third St.
KDLR	a	100	N Wichita, Kans. Elk City, Okla. Devils Lake, N. Dak. M Monterey, Calif. Klamath Falls, Ore.	Mont. Peninsula Brd. Co.
KDON KFJI	z a	100 100	M Monterey, Calif.	Willard Hotel
KFOR	2	100	CM(.25) Lincoln, Nebr.	Hotel Lincoln
KFPW	2	100	Fort Smith, Ark.	Goldman Hotel
KFVS	a	100	Fort Smith, Ark. 5(.25) Cape Girardeau, Mo.	Box 275 Calif. Hotel
KFXM	2.	100	2M San Bernardino, Calif.	Calif. Hotel
KGLO	2	100	C(.25) Mason City, Iowa	Hotel Hanford
KGY KHBG	a z	100 100	M Olympia, Wash. D Okmulgee, Okla. George City Kape	11th & Capitol Way
KIUL	a	100	Garden City Kans	Okmulgee Brdc. Corp. Garden City Brdc. Co.
KLAH	a	100	(.25) Carlsbad, N. Mex.	Carlsbad Brdcstg, Co.
KOCA	a	100	(.25) Kilgore, Texas	Oil Capital Brdc. Assn.
KPFA	a	100	Garden City, Kans. (25) Carlsbad, N. Mex. (25) Kilgore, Texas N(.25) Helena, Mont.	Peoples Forum of the Air 585 E. Colorado Royal Miller
KPPC	a	100	2 Pasadena, Calif.	585 E. Colorado
KROY KVSO	a a	100 100	CD Sacramento, Calif. M(.25) Ardmore, Okla.	
KWJB	ž	100	P(25) Globe Ariz	Sims Brdestg. Co. Sims Brdestg. Co. 1st Trust & Bank Bldg. 70 S. Main St. 1627 Monument Ave. 1424 Rice Ave. 63 Broad St. 33 N. High St.
WALR	<u>a</u>	100	P(.25) Globe, Ariz Zanesville, Ohio	1st Trust & Bank Bldg.
WBAX	8.	100	M Wilkes-Barre, Pa.	70 S. Main St.
WBBL WBLY	2	100	S Richmond, Va.	1627 Monument Ave.
WBLY	2	100	D Lima, Ohio	1424 Rice Ave.
WBRB WCOL	a a	100 100	D Lima, Ohio 3 Red Bank, N. J. N Columbus, Ohio P Lewiston, Maine	22 N High St
wcou	2	100	P Lewiston, Maine)) 14. Tilgii 50.
wcov	z	100	DP Montgomery, Ala.	Allen & Coington
W/CRW/	8.	100	4 Chicago, Ill.	Allen & Coington 2756 Pine Grove Ave.
WEBQ	а	100	5(.25) Harrisburg, Ill.	100 E. Poplar
WEDC WFAS	a a	100 100	4 Chicago, Ill. 3 White Plains, N. Y.	3850 Ogden Ave.
WFOY	a	100	White Plains, N. Y. (.25) St. Augustine, Fla.	Hotel Roger Smith Fountain of Youth Pro-
			(.27) ot. ringustine, 11d.	perties
WGBB	a	100	Freeport, N. Y.	64 S. Grove St.
WGCM	2	100	(.25) Gulfport, Miss.	WGCM, Inc.
WGNY	2	100	3 Newburgh, N. Y.	161 Broadway
WGRM WHAI	a z	100 250	DP Greenfield, Mass.	P. K. Ewing John W. Haigis
WHBF	a	100	(.25) Rock Island, III.	Hotel Harms
WHBU	a	100	(.25) Anderson, Ind.	Citizens Bank Bldg.
WIBU	а	100	(.25) Anderson, Ind. (.25) Poynette, Wis. (.25) Gadsden, Ala.	Route No. 3
WJBY	а	100	(.25) Gadsden, Ala.	108 S. 6th St.
WJEJ	a -	100	Hagerstown. Md. (.25) Lansing, Mich.	Lovely Dame Bldg.
WIMC	z z	100 250	(.25) Lansing, Mich.	Harold F. Gross Walter H. McGenty
WITN	8	100	DP Rice Lake, Wis. B(.25) Jamestown, N. Y.	James Brdestg, Co., Inc.
WJW	a	100	(.25) Akron, Ohio	James Brdcstg. Co., Inc. 41 S. High St.
WKOK	a.	100	L Sunbury, Pa.	1150 N. Front St. Head of the Lakes B. C.
WMFG	2	100	(.25) Hibbing, Minn.	Head of the Lakes B. C.
MOCB	z	100	(.25) P Cape Cod, Mass.	Cape Cod Brdcstg. Co.

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WOMT
                   100
                                   Manitowoc, Wis.
                           . . . .
                                                              Box 326
135 E. Jackson St.
 WPAX
                          D Thomasville, Ga. (.25) P Raleigh, N. C. (.25) Rochester, N. Y.
                   100
             1
 WRAL
                   100
             z
 1.VSAY
                   100
             7
                                                               192 S. Goodman St.
 WSBC
             а
                   100
                          4(.25) Chicago, Ill.
                                                              2400 Madison Ave.
 WSIX
                          (.25) Nashville, Tenn.
D Bridgeton, N. J.
N(.25) Charlotte, N. C.
                                                               WSIX, Inc.
             a
                   100
 WSNJ
             z
                   100
                                                              Eastern States Brdc. Corp.
 WSOC
                                                              516 W. Trade St.
416 E. Capitol Ave.
                   100
            a
 WTAX
                   100
                                  Springfield, Ill.
            a
 XEAT
                                   Parral, Chih.
             а
                   250
                                                              Box 90
 XEE
                                  Durango, Dgo.
Juarez, Chih.
Puebla, Pue.
                                                              Apartado 148
                    50
            а
 XEFV
XETH
            a
                   100
                                                              Tlaxcala 1013
                          . . . .
                   100
                                                              Calle 17, Oriente 11
1220 kcs. (245.8 m.)
                                 Camaguey, Cuba
Lawrence, Kans.
Santa Barbara, Calif.
            Z
                    50
                                                              Aguero No. 2
 KFKU
                 1000
            a
                         a(5)
                                                              University of Kans.
 k:TMS
                                                              News Press Pub. Co.
            z
                   500
                         В
 KTW
                 1000
                         2S
                                 Seattle, Wash.
                                                              7th and Spring Sts.
            a
 K.WSC
                         2(5) Pullman, Wash.
D Canton, N. Y.
MR(5) Pittsburgh, Pa.
            а
                 1000
                                                              State College
 WCAD
                   500
                                                              St. Lawrence University
            a
                                                             WCAE, Inc.
Tampa Terrace
7th and Vermont St.
 WCAE
            a
                 1000
            а
                 1000
                          C(5)
                                  Tampa, Fla.
                                 Lawrence, Kans.
Mazatlan, Sin.
 WREN
                 1000
                          Ba (5)
            a
 XEBL
                    50
            а
                                                              Apartado 78
 XEDA
                   200
            z
                                 Gral. Anaya, D. F.
                                                              Ixtlachuatl 5
 XETF
                                  Veracruz, Ver.
                                                              Independencia 28
                    12
1230 kcs. (243.8 m.)
CMCB
            z
                   150
                                  Havana, Cuba
                                                             La Metropolitana
KGBX
                         N
            a
                   500
                                  Springfield, Mo.
                                                             St. Louis at Kimbrough
KGGM
                 1000
                                  Albuquerque, N. Mex.
            a
                                                             KiMo Bldg.
KYA
                                  San Francisco, Calif.
                                                             988 Market St.
            a
                 1000
                          (5)
 WFBM
                 1000
                         Č(s)
                                                            307 N. Pennsylvania St.
            a
                                  Indianapolis, Ind.
WNAC
                 1000
            a
                         R(5)
                                  Boston, Mass.
                                                              Yankee Network, Inc.
XEAZ
                  200
            z
                                 Zacatecas, Zac.
Monterrey, N. L.
XEG
                   250
                                                             Moreles Oriente 580
1240 kcs. (241.8 m.)
CJCB
                         F
                                 Sydney, N. S.
Sancti Spiritus, Cuba
Mandan, N. Dak.
Minot, N. Dak.
                 1000
                                                             Eastern Brdcasters, Ltd.
СМНВ
            z
                   50
                                                             Independencia 33
KGCU
                  250
            а
                                                             404 W. Main St.
KLPM
                  250
                         1XZ
                                                             Box 707
            а
KTAT
            а
                 1000
                         M
                                  Fort Worth, Tex.
Twin Falls, Idaho
                                                             Tarrant Brdcstg. Co.
KTFI
                         N
            a
                 1000
                                                             Box 521
 WKAQ
                                 San Juan, P. R.
Detroit, Mich.
                 1000
                                                             Box 1414
            а
WXYZ
            а
                 1000
                         В
                                                             King-Trendle Brd. Corp.
                                 Leon, Gto.
Saltillo, Coah.
Merida, Yuc.
XEKL
                  500
            Z
                                                             Madero 18
MELA.
            z
                   50
                                                             Cuauhtemoc 28 sur
Calle 59 "A"
                         . . . .
XEME
            7.
                    50
1250 kcs. (239.9 m.)
                                                             Box 46e
Paul John
220 E. Anaheim St.
109½ E. Yakima Ave.
Star-Times Pub. Co.
CMKC
                  150
                                 Santiago, Cuba
HRN
                                 Tegucigalpa, Hond.
Long Beach, Calif.
            c
                   50
KFOX
                 1000
           a
                        MX(.5) Yakima, Wash.
P St. Louis, Mo.
D Winston-Salem, N.C.
KIT
                  250
K.XOK
            z
                 1000
WAIR
                                                             Rob't. E. Lee Hotel
Hotel Monteleone
           2
                  250
WDSU
                 1000
                         В
                                 New Orleans, La.
            а
                                 New Castle, Pa.
New York, N. Y.
WHBI
                         (2.5)
           2
                 1000
                                                             100 Shipman St.
WKST
                         DP
            7.
                  250
                                                             Keystone Brdcstg. Co.
WNEW
                         (2.5)
                 1000
                                                             501 Madison Ave.
           a
WTCN
                                 Minneapolis, Minn.
Mexico City, D. F.
                                                             Wesley Temple Bldg.
           2
                 1000
                         B(5)
XEAL
                  500
            7.
                                                             Bahia de Sta. Barbara 114
XEXH
                  250
                                 San Luis Potosi, S.L.P.
                                                             H. Ayuntamiento S.L.P.
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1260	kcs.	(238	m.	.)	
CMBD	2		X	Havana, Cuba	Calle 17 y "O" Prado No. 4
CMC KGVO	2 2	150 2 1000 C	(5)	Havana, Cuba Missoula, Mont.	240 N. Higgins Ave.
KHSL	a	250 .		Chico, Calif.	240 N. Higgins Ave. Golden Empire Brd. Co. Central States Brd. Co.
KOIL	a) Omaha, Nebr.	Central States Brd. Co.
KPAC KRGV	a a	500 I		Port Arthur, Tex. Weslaco, Texas	Port Arthur College KRGV, Inc.
KUOA	a	5000 I		Siloam Springs, Ark.	John Brown University Consolidated Nat'l Bank
KVOA	a	1000 .		Tucson, Ariz.	Consolidated Nat'l Bank
WHIO	a	1000 C	(5)	Dayton, Ohio	39 S. Ludlow St. 39 Main St.
WNBX WTOC		500 C) Springfield, Vt. Savannah, Ga.	DeSoto Hotel
1270	kcs.	(236.1	l m	.)	
CMHD		250 .		Caibarien, Cuba	Escobar 17
KGCA KOL	a a		D M(5)	Decorah, Iowa Seattle, Wash.	201 Water St. Northern Life Tower
KVOR	a	1000 C		Colorado Springs, C.	Out West Brdcstg. Co.
KWLC	a	100 2	D	Decorah, Iowa	Luther College
WASH)Na	Grand Rapids, Mich.	Natl. Bank Bldg.
WFBR WJDX	a		(1)	Baltimore, Md. Jackson, Miss.	7 St. Paul St.
WOOD	a) a		(5) Va	Grand Rapids, Mich.	Lamar Life Ins. Co. Natl. Bank Bldg.
XEXB	a	212		Jalapa, Ver.	Gobierno del E. de Ver.
XEXE	Z	17 .		Texcoco, D. F.	H. Ayuntamiento de Tex.
1280		(234.2	2 m		
CMKO KFBB	z a	200 . 1000 ((5)	Holguin, Cuba Great Falls, Mont.	Box 1817
KLS	a			Oakland, Calif.	327 - 21st St.
WCAM WCAP	í a	500 1		Camden, N. I.	City Hall
WCAP		500 1		Asbury Park, N. J. Chattanooga, Tenn.	Convention Hall
WTNJ	a		(5)		Hotel Patten 111 King St.
WDOT Wiba) a	1000 1	V(5)	Worcester Mass	60 Franklin St.
WORC			мſ	Dallas, Texas	Southland Bldg.
WRR XEMX	a	500 1		Dallas, Texas Trenton, N. J. Mexico City, D. F.	Stacey Trent Hotel Juan Cuatmazin
	_	(232.4	 1		Juan Cuarmazm
1290			ŧШ		
CMCU				Havana, Cuba	Vibora
CMJK KDYL	a a	200 . 1000 F	ŘΧ	Camaguey, Cuba Salt Lake City, Utah	Finlay No. 3 Intermountain Brd. Corp.
KLCN	a		5	Blytheville, Ark.	Main & Division Sts.
KTRH	a	1000	C(5)	Blytheville, Ark. Houston, Texas Duluth, Minn.	Rice Hotel
WEBC	a		V(5)	Duluth, Minn.	Spaulding Hotel 7th Ave.
WJAS WNBZ	a	1000 (C(5)	Pittsburgh, Pa. Saranac Lake, N. Y.	Hotel Saranac
WNEL			(2.5)	Saranac Lake, N. Y. San Juan, P. R.	Box 1252
1300	kcs.	(230.6	3 m		
CMHX		200 .	. ii .	Cienfuegos, Cuba	P. O. Box 205 New Heathman Hotel 3443 Wilshire Blvd. 1241/2 S. Market St.
KALE KFAC	a a	1000 l 1000 .	M	Portland, Ore. Los Angeles, Calif.	3443 Wilshire Blvd.
KFH	a		2(5)	Wichita, Kans.	124½ S. Market St.
WBBR	a	1000 1		Brooklyn, N. Y. New York, N. Y. New York, N. Y.	124 Columbia Heights
WEVD		1000 1		New York, N. Y.	Hotel Claridge
WFAB WFBC	a a	1000 1 1000 1	V(5)	Greenville S C	154 W. 57th St. Imperial Hotel
WHAZ		1000 1		Greenville, S. C. Troy, N. Y.	8th Ave.
WHBL		250 .		Sheboygan. Wis.	Press Bldg.
1310			m		I A Comes
CHCK	a. a.	50 . 100 F		Charlottetown, P.E.I.	J. A. Gesner R and E Building
CJKL CJLS	a a	100 F		North Bay, Ont. Yarmouth, N. S.	Box 684
CKCV	a	100 F	7	Yarmouth, N. S. Quebec, P. Q.	254 Marguerite-Bourgeois
KAND	z	100 I)	Corsicana, Tex.	State Natl. Bank Bldg.

	.,,) I(I)	II AM	ERICAN B. C. S	STATIONS BY FRI
KARM		100	C	Fresno, Calif.	George Harm
KBND		100	(.25)	P Bend, Ore.	The Bend Bulletin 901 N. 8th St.
KCKN KCRI		100	;	Kansas City, Kans.	901 N. 8th St.
KFPL	a b	100 100	(.25)	Jerome, Ariz.	Drawer D
KFYO	a	100	(.25) (.25)	Dublin, Texas	Box 176 Box 1448
KGEZ	a	100		Lubbock, Texas Kalispell, Mont. Kearney, Nebr.	Box 1
KGFW	a	100		Kearney, Nebr.	Box 1 919 W. 27th St.
KHUB	а	250	D	Watsonville, Calif.	Anna Atkinson
KINY	а	100	XZ	Juneau, Alaska	Edwin A. Kraft
KOCY KPDN	a	100 100	(.25)	Oklahoma City, Okla.	Plaza Court Brdc. Co.
KRBA	a z	100	D D	Pampa, Texas Lufkin, Texas	R. C. Hoiles
KRMD	a	100	(.25)	Shrevenort Ia	Angelina Hotel Box 1712
KROC	a	100	(.25)	Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas	Martin Hotel
KRQA	а	100		Santa Fe, N. Mex.	Box 985
KRRV	z	250	D	Sherman, Texas	Red River Valley Corp.
KSRO	a	100	(.25)	Santa Rosa, Calif.	Press-Democrat Pub. Co.
KSUB	a z	100 250	DP	Cedar City, Utah	El Escalante Hotel
KTFL KTSM	a	100	DP N/ 25	Tulsa, Okla.	Box 1976
KVIC	z	100	P (.2)) El Paso, Texas Victoria, Texas	DOX 1970
KVOL	a	100		Lafavette, La.	Evangeline Hotel
KVOX	z	100	(.25)	Moorhead, Minn. Poplar Bluff, Mo.	KVOX Brdcstg. Co.
KWOC	z	100 100	Ď	Poplar Bluff, Mo.	Fields McCarthy Co.
KWOS KXRO	2 2	100	D M(25	Jefferson City, Mo.) Aberdeen, Wash.	Tribune Printing Co. Morck Hotel
WAML	<u>a</u>	100	(.25)	Laurel, Miss.	Box 26
W BEO	2	100	Ď	Marquette, Mich.	Box 26 146 W. Washington 1914 S. 6th St. 16 N. Main St.
WBOW		100) Terre Haute, Ind.	191/2 S. 6th St.
WBRE	а	100	N	Wilkes-Barre, Pa.	16 N. Main St.
WBRK	z a	100 100		Pittsfield, Mass.	8 Bank Row
WCLS WCMI	a a	100	L (25)	Joliet, Ill.	301 E. Jefferson St.
WDAH	a	100	S(.25)	Ashland, Ky. El Paso, Tex. Buffalo, N. Y.	Box 106 Box 1976
WEBR	2	100	B(.25)	Buffalo, N. Y.	23 North St.
WEMP WEXL	a	100	D	Milwaukee, Wis. Roya! Oak, Mich.	711 Empire Bldg. 212 W. 6th St.
WFBG	a a	50 100	3	Royal Oak, Mich.	212 W, 6th St.
WFDF	a	100	9	Altoona, Pa. Flint, Mich.	12th Ave. & 13th St. Union Industrial Bldg.
WGAU	z	100	P(.25)	Athens, Ga.	J. K. Patrick & Co.
WGH WGTM	а	100	(.25)	Newport News, Va.	Metropolitan Bldg.
WGTM	Z	100 100	Ď	Wilson, N. C.	WGTM, Inc.
WHAT WJAC	a a	100	4 2 (25)	Philadelphia, Pa.	Public Ledger Bldg. Locust St.
WLAK	z	100	3(.2)	Johnstown, Pa. Lakeland, Fla. Muncie, Ind. Laconia, N. H. Auburn, N. Y. Plattsburg, N. Y. New Bedford, Mass. Washington, D. C. Parkling Pa.	Lake Region Brdc. Co.
WLBC	a	100	(.25)	Muncie, Ind.	Anthony Bldg.
WLNH	a	100	M	Laconia, N. H.	523 Main St.
WMBO WMFF	a	100 100		Auburn, N. Y.	Metcalf Bldg.
WNBH	a a	100	B(.25)	Plattsburg, N. Y.	Hotel Cumberland
WOL	a	100	M7.	Washington D C	251 Union St. 1111 "H" St.
WRAW	а	100		Reading, Pa.	533 Penn St.
WROL	a	100	V(.25)	Kroxville, Tenn. Grove City, Pa. Savannah, Ga.	533 Penn St. 524 S. Gay St. 418 Poplar St.
WSAJ WSAV	a	100 100	P	Grove City, Pa.	418 Poplar St.
WSGN	z a	100	P 251	Savannan, Ga. Birmingham, Ala.	Bismingham Name Co
WSJS	a	100	C .23,	Winston-Salem, N.C.	Birmingham News Co.
WTAL	а	100	(.25)	Tallahassee, Fla.	416 N. Marshall Fla. Capitol Brdcasters. 3701 N. Broad
WTEL WTIS	a	100	4	Tallahassee, Fla. Philadelphia, Pa.	3701 N. Broad
WIRC	a a	100 100	(.25)	Jackson, Tenn. Elkhart, Ind. Cordoba, Ver.	Sun Bidg.
XEAG	ž	10	(.25)	Cordoba, Ver.	Hotel Elkhart Av. "L" 135 Guerrero 26 Salvador Diaz Miron 6
XEBO	Z	25		Irapuato, Gto.	Guerrero 26
XEFW	а	300		Tampico, Tams	Salvador Diaz Miron 6
XETB XEX	a a	125 125	1	Torreon, Coah.	Apartado 225
XEXS	a z	100		Monterrev, N. L. Mexico Citv, D. F.	Apartado 10
			0.5		*******
1320 1	KCS.	(227	'.1 m.) [
CMOX	a	200		Havana, Cuba	Perez y Chisholm
KGHF	а	500		Pueblo, Colo.	113 Broadway

NO.	KIH	AMERICAN B. C. S	IATIONS BI TREG
KGMB a KID a KRNT a TGI d WADC a WORK a WSMB a XEAU z	1000 509 1000 1000 1000 1000	CM Honolulu, Hawaii (1) Idaho Falls, Idaho C(5) Des Moines, Iowa Guademala City, Gu C(5) Akron, Ohio N York, Pa. R(5) New Orleans, La. Tijuana, B. Cfa.	Box 581 Box 487 715 Locust St. aat. Box 29 15 S. Beaver St. Maison Blanche Bldg.
1330 kcs.	(225	4 m.)	
	250	Cruces, Cuba	Calle Heredia 61
CMHK z KGB a KMO a KRIS z KSCJ a WDRC a WSAI a WTAQ a	1000 1000 500 1000 1000 1000 1000	M San Diego, Calif. M Tacoma, Wash. N Corpus Christi, Tex. C(5) Sioux City, Iowa C Hartford, Conn. MN(5) Cincinnati, Ohio C Green Bay, Wis.	1012 First Ave. 914½ Broadway Gulf Coast Brdcstg. Co. 415 Douglas St. 750 Main St. 1329 Arlington St. Bellin Bldg.
1340 kcs.	(223	3.7 m.)	
CMAB z CMJW z KDTH z KGIR a KGNO a WCOA a WFEA a WSPD a XEAP z XEBS z XEDH z XEXD z	100 300 500 1000 250 500 1000 50 200 200 350	Pinar del Rio, Cuba Camaguey, Cuba ADP Dubuque, Iowa N(5) Butte, Mont. Dodge City, Kans. C(1) Pensacola, Fla. MN(1) Manchester, N. H. B(5) Toledo, Ohio Obregon, Son. Mexico City, D. F. Villa Acuna, Coah. Jalapa, Ver.	Hotel Ricardo Apartado 322 Telegraph Herald Co. 121 W. Broadway 1st Natl. Bank Bldg. Pensacola Brdcstg. Co. Carpenter Hotel The Fort Industry Co. Veracruz 83 Castilla 153 Galeana y B. Dominguez Gobierno del E. De Ver.
1350 kcs.	(22	2.1 m.)	
CMCA a CMKW z KIDO a KWK a WAWZ a WBNX a WMBG a	450 1000 1000 500 1000 500	Havana, Cuba Santiago, Cuba N(2.5) Boise, Idaho XBM(5) St. Louis, Mo. 1(1) Zarephath, N. J. New York, N. Y. R. Richmond, Va.	Galiano 102 Reparto Vista Alegre Hotel Boise Hotel Chase Pillar of Fire 260 E. 161st St. 914 W. Broad St.
1360 kcs	. (22	0.4 m.)	
CMJH b KCRC a KGER a WCSC a WFBL a WGES a WQBC a WSBT a	200 250 1000 500 1000 500 1000 500	Ciego de Avila, Cuba M Enid, Okla. Long Beach, Calif. N(1) Charleston, S. C. C(5) Syracuse, N. Y. 1(1) Chicago, Ill. D Vicksburg, Miss. 1 South Bend, Ind.	Castilla 37 Oxford Hotel 435 Pine St. Francis Marion Hotel Onondago Hotel 4000 Washington Blvd. Hotel Vicksburg 225 W. Colfax Ave.
1370 kcs	. (21	8.8 m.)	
CFAR Z CKCW a CMGE a KAST a KCMO a KELD Z KERN a KFLD Z KFRO a KFJZ AFRO A KGFL A KGFL a KGFL a KGKL a	100 100 200 100 100 100 100 100 250 100 100	Flin Flon, Man. F Moncton, N. B. Cardenas, Cuba DXZ Astoria, Ore. Kansas City, Mo. Seattle, Wash. El Dorado, Ark. N Bakersfield, Calif. D Boone, Iowa (25) Fort Worth, Texas C Longview, Texas C Tucson, Ariz. Roswell, N. Mex. (25) San Angelo, Texas	120 Main St. K of P Hall Av. Cespedes 180 611 Commercial St. 1515 Commerce Trust B. 2101 Smith Tower Radio Enterprises, Inc. McClatchey Brdcstg. Co. 924 W. 2nd St. 502 Trinity Life Box 616 142 S. 6th Ave. 507 N. Main St. St. Angelus Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KICA	а	100	4 Clovis, N. Mex.	Box 111 2800 Main St.
KIUP KLUF	a	100 100	Clovis, N. Mex. Durango, Colo. Galveston, Tex.	2800 Main St.
KMAC	a	100	5(.25) San Antonio, Tex.	KLUF Bidcstg. Co., Inc. Smith-Young Tower Alex Johnson Hotel
KOBH	a	100	5(.25) San Antonio, Tex. (.25) Rapid City, S. Dak. La Junta, Colo.	Alex Johnson Hotel
KOKO KONO	a	100 100	5 San Antonio, Tex.	Southwest Brdcstg. Co. Milan Bldg.
KRE	a	100		2337 Shattuck Ave.
KRKO KRMC	a	50	(.25) Berkeley, Calif. Everett, Wash.	2814 Rucker Ave.
KSLM	z a	100 100	(.25) Jamestown, N. Dak. MXZ Salem, Ore.	Gladstone Hotel 343 Court St.
KSLM KTEM	a	250	D Temple, Texas	Bell Brdcstg. Co.
KTOK KUJ	a	100	MN Oklahoma City, Okla. Walla Walla, Wash. Great Bend, Kans.	1113 N. Broadway Marcus Whitman Hotel
KVGB	a Z	100 100	Walla Walla, Wash.	Marcus Whitman Hotel
KVRS	z	100	P(.25) Rock Springs Wyo	Ernest Edward Ruehlen Wyo. Brdcstg. Co.
KWYO Waby		100	(.25) Sheridan, Wyo. N(.25) Albany, N. Y. D. Dothan, Ala. (.25) Atlanta, Ga.	Big Horn Brdcstg. Co.
WAGF	a a	100 250	N(.25) Albany, N. Y.	Strand Theater Bldg.
WATL	a	100	(.25) Atlanta, Ga.	Box 25 26 Cain St.
WBLK WBNY	a	100	Clarksburg, W. Va.	The Exponent Co. 485 Main St.
WBTM	a a	100 100	2(.2)) Dunalo, N. Y.	485 Main St.
W CBM	a	100	(.25) Baltimore, Md.	Miller Bldg. Keith Theater Bldg.
WDAS WDWS	a	100	(.25) Philadelphia, Pa.	1211 Chestnut St.
WEOA	a a	100 100	(.25) Philadelphia, Pa. (.25) Champaign, Ill. C(.25) Evansville, Ind.	48-56 Main St. Evansv. on the Air, Inc.
WFOR	a	100	Hattiechuse Mice	Box 947
WGL WGRC	a a	100 250	N(.25) Fort Wayne, Ind. D New Albany, Ind. Memphis, Tenn. (.25) Calumet, Mich. C(.25) Virginia, Minn.	Westinghouse Stations
WHBQ	a a	100	Memphis, Tenn.	North Side Brd. Corp. Hotel Claridge
WHDF	a	100	(.25) Calumet, Mich.	Scott St.
WHLB WHLS	a Z	100 250	C(.25) Virginia, Minn. DP Port Huron, Mich.	Head of the Lakes B. C.
WIBM	a	100	DP Port Huron, Mich. (.25) Jackson, Mich.	Port Huron Brdcstg. Co. 306 W. Michigan Ave.
WLLH	a	100	Sy Lawrence, Mass. MSy(.25) Lowell, Mass.	Merrimac Brdcstg. Co.
WLLH WMBR	a a	100 100	Mby(.25) Lowell, Mass.	Box D Atlantic Annex Bldg.
WMFD	a	100	C(.25) Jacksonville, Fla. D Wilmington, N. C.	Hotel Wilmington
WMFO WMIN	a a	100 100	D Decatur, Ala.	Box 1025
woc	a	100	(.25) St. Paul, Minn. C(.25) Davenport, Iowa	St. Anthony & Syndicate 1000 Brady St. Vee Bee Corp.
WPAY	а	100	Portsmouth, Ohio	Vee Bee Corp.
WPRA WRAK	z a	100 100	(.25) Mavaguez, P. R. (.25) Williamsport, Pa.	P. R. Advertising Co. 244 W. 4th St.
WRDO	a	100	M Augusta, Maine	1 Commercial St.
WRJN	a	100	M Augusta, Maine (.25) Racine, Wis.	Hotel Racine
WSAU WSVS	a a	100 50	Wausau, Wis. 2D Buffalo, N. Y.	Northern Brdcstg. Co. 666 E. Delevan St.
XECZ	z	100	San Luis Potosi, S.L.P.	Zaragoza 32
XEI XELZ	a z	125 100	Morelia, Mich. Mexico City, D. F.	Madero 545
	z	100	Mexico City, D. F Owen Sound, Ont.	Pino 243 Owen Sound Sun-Times
1000 1		/017		
1380 1	ccs.	•	'.3 m.)	
CMCR CMCX	z z	150 150	Havana, Cuba Havana, Cuba	Infanta 115
КОН	a	500	C Reno, Nev.	Calle Maceo 7 440 N. Virginia St.
KQV	a	500	1C Pittsburgh, Pa.	1406 C of C Bldg.
WALA WKBH	a a	500 1000	C(1) Mobile, Ala. C La Crosse, Wis.	Box 288 409 Main St.
WNBC	a	250	DX New Britain, Conn.	147 Main St.
WSMK	а	200	1CLX Dayton, Ohio	121 N. Main St.
1390 l	ccs.	(215	.7 m.)	
CMJC	z	200	F Yorkton, Sask.	Royal Alexandra Hotel
CMIC	z	150		Cisneros y Gral Gomez
KABR KLRA	a a	500 1000	C(5) Little Rock, Ark.	Box 550
KOY	a	1000	C Phoenix, Ariz.	Salt River Val. Brdc. Co.
KRLC	a	250	Lewiston, Idaho	Lewis-Clarke Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES BM(2.5) Cleveland, Ohio D St. Albans, Vt. 1311 Terminal Tower 8 Kingman St. 1000 WQDM a 1400 kcs. (214.2 m.) Matanzas, Cuba Independencia 56 **GMGC** 150 а Maso alta 71 Santiago, Cuba 100 CMKR Z Box 595 Hotel Ben Lomond CM Hilo, Hawaii KHBC 250 Ogden, Utah Tulsa, Okla. 500 В KLO a Nat'l. Bank Bldg. KTUL C(5)1000 а Guatemala City, Guat. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Olean, N. Y. TGX d 427 Fulton St. 2 WARD a 500 552-54 Atlantic Ave. WBBC 500 2(1) a Brooklyn Daily Eagle 500 P WEGL Exchange Bank WHDL 250 D a MR(5) Indianapolis, Ind. 2 Brooklyn, N. Y. 2 Brooklyn, N. Y. 540 N. Meridian St WIRE 1000 a 105 Second Ave., N.Y.C. 4 & 5 Court Square 500 WLTH а 500 WVFW а 1410 kcs. (212.6 m.) 1504 Sun Bldg Vancouver, B. C. CKFC 50 Vancouver, B. C. Havana, Cuba 812 Robson St CKMO 100 Vista Alegre 80 CMCQ KFJM 5000 а University of N. Dak. Plains Radio Brdc. ((1) Grand Forks, N. Dak. 500 а N(2.5) Amarillo, Texas N Medford, Ore. 1000 KGNC a Sparta Bldg. KMED 250 c Yankee Network, In. M(1)Boston, Mass 500 WAAB a Hotel Wenonah Bay City, Mich. Bluefield, W. Va. รดด (1) WBCM а Bland St. 109 S. Water St. WHIS a 500 (1) 500 Rockford, Ill. WROK (1) а Jefferson Davis Hotel 500 **C**(1) Montgomery, Ala. WSFA 1420 kcs. (211.1 m.) Three Rivers, P. Q. North Bay, Ont. Le Nouvelliste CHLN 100 Z R. H. Thompson Texas Theater Bldg. Albert Lea Brdcstg. C. F 100 **CKGB** San Antonio, Tex. Albert Lea, Minn. KABC 100 (.25)KATE 250 Ď а 546 N. E. 12th Ave. KCMC, Inc. Harwell V. Shepard Portland, Ore. KBPS 100 4 a (.25)Texarkana, Tex. KCMC 100 Denton, Texas Price, Utah St. Cloud, Minn. KDNT 100 Ď z Fastern Utah Brdc. Co. KEUB 100 a (.25)Times Pub. Co. KFAM 100 Lange Bldg. Fond du Lac, Wis. KFIZ a 100 9th and Bell Sts. 230 Eddy St. KGFF 100 M(.25) Shawnee, Okla. а San Francisco, Calif. KGGC 100 а Box 26 Gila Brdcstg. Co. 1 Alamosa, Colo. P(.25) Safford, Ariz. 1 Lamar, Colo. Pecos, Texas KGIW а 100 KGLU 100 z Southwest Brdcstg. Co. KIDW 100 a Hawkins & Tubbs KIUN a 100 P(.25) La Grande, Ore. KLBM 100 Palestine, Texas Eugene, Ore. Abilene, Tex. Palestine Brdcstg. Assn. KNET 100 2 100 M 733 Willamette St. 2 Box 263 (.25)KRBC 100 Roberts McNab Co. 9(.25) Bozeman, Mont. KRBM 7. 100 (.25) Beaumont, Texas D Midland, Texas Beaumont Brdcstg. Assn. KRIC 100 z Clarence Scharbaur KRLH 100 Sioux City Brdcstg. Co. 100 Sioux City, Iowa KTRI z (.25)100 Yuma, Ariz. Box 267 KUMA a KVAK 100 DP Atchison, Kans. z W. N. Greenwald Hutchinson, Kans. KWBG а 100 Multnomah Hotel 1(.25) Portland, Ore. KXI. 100 WACO Waco, Texas Presque Isle, Me. KTSA Brdcstg. Co. 100 Main St. WAGM 100 9th Broad St. WAPO 100 (.25)Chattanooga, Tenn. WAZL WCBS Hazelton, Pa. Springfield, Ill. Natl. Bank Bldg. 100 2081/2 S. 5th St. 100 (.25) а

3(.25) Charlottesville, Va.
3(.25) Rocky Mount, N. C.
Battle Creek, Mich.
DP Youngstown, Ohio

Albany, Ga.

WCHV

WEED

WELL

WFMJ WGPC a

100

100

100

100

100

Box 221

Box 221

1 W. Michigan Ave. Wm. F. Maag, Jr. Rylander Theater

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

	110		71111	antonin B. C. B.	
WHFC WILM WJMS WLAP WLEU WMAS WMBG WMBS WMBS WMBJ WPAD WPAD WPAR WPRP WSLI	i a I a a a	100 100 100 100 100 100 100 250 100 100 100 100 100	C(.25) (.25) D (.25) C (.25)	Cicero, Ill. Wilmington, Del. Ironwood, Mich. Lexington, Ky. Eric. Pa. Springfield, Mass. Detroit, Mich. Joplin, Mo. Uniontown, Pa. Daytona Beach, Fla. Sheffield, Ala. Paducah, Ky. Parkersburg, W. Va. Ponce, P. R. Jackson, Miss. Kenora, Ont.	6138 Cermak Road 920 King St. St. James Hotel Main & Esplanade Commerce Bldg. Hotel Stonehaven 7310 Woodward Ave. 1334 Roosevelt St. Fayette Brdestg. Corp. 126½ Magnolia Ave. Box 688 2201 Broadway Chancellor Hotel Julio M. Canesa Stand. Life Ins. Co. Kenora Brdestg. Co.
1490]rag	/200	.7 m.	\	
1430	KCS.	•	. / III.		Callaine Name on
CMJP KECA KGNF KSO WBNS WHEC WHP WMPS WOKO	a a a a a a a	75 1000 1000 500 1000 500 500 500 500	B(5) D BM(2. C(5) C(1) C(1) B(1) C(1)	Moron, Cuba Los Angeles, Calif. NorthPlatte,Nebr. 5) Des Moines, Iowa Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Mersphis, Tenn. Albany, N. Y.	Callejas No. 80 1000 S. Hope St. W. 12th St. 715 Locust St. 33 N. High St. 40 Franklin St. 216 Locust St. Box 445 Hotel Ten Eyck
1440	kes.	(208	.2 m.)	
CMOA	z z	150		Hayana, Cuba	Aguilar 126, altos
HP50	z			Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash.	La Voz de la Victor
KDFN Kela	a a	500 500	M	Casper, Wyo.	Box 930 Central Brdcstg. Corp.
KXYZ	2	1000	В	Houston, lexas	Gulf Bldg.
WBIG	а	1000	C	Greensboro, N. C.	The O Henry Hotel
WCBA	a	500	2		200 Alliance Life Bldg
WMBD WSAN	a	1000 500	C(5) Na	Peoria, Ill. Allentown, Pa.	39-41 Tenth St. 200 Alliance Life Bldg. 39 Tenth St.
XEFI	a	250		Chihuahua, Chih.	Apartado 157
14 50 :	kcs.	(206	.8 m.)	
CFCT	а	500	1177	Victoria, B. C.	620 View St.
CHGS	a	50	r	Summerside, P. E. I. Cienfuegos, Cuba	190 Water St. Hotel Union
CMHM	z a	150 1000		Wolf Point, Mont.	Westland Radio Station
KGCX KIEM	a 3	500	M(1)	Eureka, Calif.	Vance Hotel
KTBS	a	1000	N	Shreveport, La.	Box 17
TGQ	d	200	B(1)	Quezaltenango, Guat. Atlanta, Ga.	Dir. of Elec. Comm. Western Union Bldg.
WAGA WGAR	a a	500 500		Claustand Ohio	Hotel Statler
WHOM		250		Jersey City, N. J.	29 W. 57th St., N.Y.C.
WSAR XEF	a a	1000 100	M	Jersey City, N. J. Fall River, Mass. Juarez, Chih.	Academy of Music Bldg. Box 70
1460			_		
		250			Libertad esq. Arias
CMKF KSTP WJSV		10000	R(25) C	Holguin, Cuba St. Paul, Minn. Washington, D. C.	Libertad esq. Arias St. Paul Hotel Earle Bldg.
1470	kcs.	(20	4 m.)	
KGA WLAC	a a	5000 5000	BM C	Spokane, Wash. Nashvilie. Tenn.	1023 W. Riverside Ave. 2421 West End Ave.
148 0	kcs.	(202	.6 m.)	
KOMA	a	5000	С	Oklahoma City, Okla.	Biltmore Hotel

NO	втн	AMI	ERICAN B C S	TATIONS BY FREQUENCIES
WHIP z WKBW a	50 00 5000	D C	Hammond, Ind. Buffalo, N. Y.	137 Pochman Ave. Rand Bldg.
		10		<u> </u>
1490 kcs	. (20	1.2 m	.)	
KFBK a WCKY a	10000 10000	N N	Sacramento, Calif. Covington, Ky.	708 Eye St. 6th and Madison
1500 kcs	. (19	9.9 m	.)	
CJIC a	100	F	Sault Ste. Marie, Ont.	Windsor Hotel
KAWM z KBIX a	100 100	M	Gallup, N. Mex.	A. W. Mills
KBKR z	100		Muskogee, Okla. P Baker, Ore.	Barnes Bldg.
KBST z	100	C	Big Spring, Tex.	Crawford Hotel
KDAL a KDB a	100 100		Duluth, Minn. 5) Santa Barbara, Calif.	Red River Brdc. Co. S. B. Brdcasters, Ltd.
KGFI a	100	(.25)	Brownsville Tex	Eagle Brdcstg. Co., Inc.
KGKB a	100	(.25)	Tyler, Texas	Commercial College Bldg.
KGKY a KNEL a	100 250	(.25) D	Scottsbluff, Nebr. Brady Texas	1517½ Broadway Box 1077
KNOW a	100	C	Brady, Texas Austin, Texas	Norwood Bldg
KOTN a	100	D	Pine Bluff, Ark. Valley City, N. Dak.	Hotel Pines
KOVC a KPAB z	100 100	(.25) (.25)	Laredo, Tex.	KOVC, Inc. Hamilton Hotel
KPIC a	100	(.25)	Lake Charles, La.	Majestic Hotel
KPLT z	250	D	Paris, Texas	Gibralter Hotel
KPQ a KRNR a	100 100	M(.25	 Wenatchee, Wash. Roseburg, Ore. 	20 Second St. News-Review Co.
KROD z	100	P	El Paso, Texas	Dorrance D. Roderick
KSAL a	100	(.25)	El Paso, Texas Salina, Kans.	Journal Building
KSAM z KUTA z	100 100	DP N	Huntsville, Texas Salt Lake City, Utah	Sam Houston Brd. Co. Utah Brdcstg. Co.
KVNU z	100	P	Logan, Utah	Cache Valley Brd. Co.
KVOE a	100	M	Santa Ana, Calif. Hobbs, N. Mex.	Voice of Orange Empire
KWEW z KXO a	100 100	DP	El Centro, Calif.	W. E. Whitmore Box 140
KYCA z	100		Prescott, Ariz.	B0.2 140
KYSM z	100) Mankato, Minn.	F. B. Clement & Co.
WCNW a WDAN z	100 250	DP	Brooklyn, N. Y. Danville, Ill.	846 Flathush Ave. Northwestern Pub. Co.
WDNC a	100	C	Durham, N. C.	Washington Duke Hotel
WGAL a	100	(.25)	Lancaster, Pa. Galesburg, Ill.	8 W. King St.
WGIL z WGKV z	250 100	DP P	Charleston, W. Va.	Galesburg Brdc. Co. Kanawha Valley Brd. Co.
WHBB a	100	1	Selma, Ala	Box 26
WHEF a	100	(.25)	Kosciusko, Miss.	Box 631
WJBK a WKAT a	100 100	(.25)	Detroit, Mich. Miami Beach, Fla.	6559 Hamilton Ave. A. Frank Katzentine
WKBB a	100	YC(.2	5) E. Dubuque, III.	Hotel Julian
WKBV a WKBZ a	100	(.25)	Richmond, Ind. Muskegon, Mich.	Box 308
WKBZ a WKEU a	100	(.25) D	Griffin Ga	Ashbacker Radio Corp. 906 Hill St.
WMEX a	100	(.25)	Griffin, Ga. Boston, Mass.	Northern Corp.
WNBF a WNLC a	100 100	O(.25) DM	Binghamton, N. Y. New London, Conn.	Arlington Hotel Mohican Hotel
WOMI a	100	(.25)	Owensboro, Ky.	Owensboro Brdc. Co.
WOPI a	100	64.44	Bristol, Tenn. Augusta, Ga.	22nd and State
WRDW a WRGA a	100 100	(25)	Rome, Ga.	309 Eighth St. 10 Third Ave.
WRTD a	100	B	Richmond, Va.	State-Planters Bank Bldg.
WSTP z	100	(.25)P	Salisbury, N. C.	-
WSYB a W VV a	100 100	(.25)	Rutland, Vt. E. St. Louis, III.	Box 328 Miss. Val. Brdc. Co.
WwRL a	100	1(.25)	Woodside, N. Y.	41-30 - 58th St.
WWSW a	100	(.25)	Pittsburgh, Pa.	Hotel Keystone
1510 kcs.	(198		· .	
CFRC a CKCR a	100 1 00	F	Kingston, Ont. Waterloo, Ont.	Fleming Hall 24 King St., S.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1520 kcs. (197.3 m.)	
TGW d 1000 Guatemala City, Guat.	Ministerio de Fomento
1530 kcs. (196 m.)	
WBRY a 1000 Kansas City, Mo. Waterbury, Conn.	106 W. 14th St. 136 Grand St.
1550 kcs. (193.4 m.)	
KPMCa1000MBakersfield, Calif.WQXRa1000New York, N. Y.	Pioneer Mercantile Co. 730 Fifth Ave.

RADEX CLUB

(Continued from Page 17)

- 2. South America.
- Europe, including Iceland and the British Isles.
- 4. Africa.
- 5. Asia, including the Philippine Islands.
- Oceania, including Australia, New Zealand, the Netherland East Indies, the Islands of the South Pacific, and Hawaii.

WE PRESENT

Next month in RADEX Mr. Lord will resume his regular broadcast band articles, with lots of letters from his readers.

The accent is on Europe in November. The Count de Veries tuning article, started in this issue, will continue with hints on how to hear the Europeans. There will be pictures of European stations on long and shortwave, European verification cards, and European cities.

KFBB BROADCASTS

Montana's "Voice of the Treasure State," KFBB in Great Falls, has set the time for its annual DX Party at 10 pm, MST, October 29, until 4:30 am, MST, Oct. 30. This is 12:01 am until 6:30 am, Oct. 30, in EST.

KFBB's Birthday Party DX Broadcast is a heavy favorite with DXers who revel in its Jamboree Western spirit and varied entertainment. As this article goes to press, the broadcast schedule is not complete, but we are assured of hearing some of the finest talent in the west.

Working on 1280 kcs., KFBB is an affiliated station of the CBS, and they recently added an Audio-Compressor, doubling its power and coverage.

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column, C Columbia, R National Red, B National Blue, N National Red and Blue.

*** , *********************************	,	F Canadian	, M Mutual.	Tanona. Rea ana Dige.
ALABAMA		KGHI 1200 100	KJBS 1070 500	WDEL 1120 250 R
D:		KLRA 1390 1000 C	KPO 680 50000 R	WILM 1420 100
Birmingham WAPI 1140 50	00 C	Pine Bluff	KSFO 560 1000 C	DIGEDICE OF
	00 R	KOTN 1500 100 Siloam Springs	KYA 1230 1000	DISTRICT OF COLUMBIA
	00 B	KUOA 1260 5000	San Jose KQW 1010 1000M	COLUMBIA
Decatur	00 1	ROOR 1200 3000	San Luis Obispo	Mashimatan
	100	CALIFORNIA	KVEC 1200 100	Washington WJSV 1460 10000 C
Dothan		CALIFORNIA	Santa Ana	WMAL 630 250 B
	250	D-1	KVOE 1500 100M	WOL 1310 1000M
Gadsden		Bakersfield KERN 1370 100 N	Santa Barbara	WRC 950 1000 R
	100	KPMC 1550 1000M	KDB 1500 100M	
Huntsville WBHP 1200 1	100	Berkeley	KTMS 1220 500 B	FLORIDA
Mobile 1200 1	100	KRE 1370 100	Santa Rosa	
	500 C	Beverly Hills	KSRO 1310 100 Stockton	Daytona Beach
Montgomery	,00 C	KMPC 710 500	KGDM 1100 1000M	WMFJ 1420 100
WCOV 1210 1	100	Chico	KWG 1200 100 N	Gainesville
WSFA 1410 5	500 C	KHSL 1260 250	Visalia	WRUF 830 5000
Selma		El Centro	KTKC 1190 250	Jacksonville
	100	KXO 1500 100 Eureka	Watsonville	WJAX 900 1000 N
Sheffield WMSD 1420 1		KIEM 1450 500M	KHUB 1310 250	WMBR 1370 100 C
Tuscaloosa	100	Fresno		Lakeland
	250	KARM 1310 100 C	COLORADO	WLAK 1310 100 Miami
1200 2		KMJ 580 1000 N	Alamana	WIOD 610 1000 N
ALASKA		Glendale	Alamosa KGIW 1420 100	WMBF 610 1000
A1		KIEV 850 250	Colorado Springs	WQAM 560 1000 C
Anchorage KFOD 780 2	250	Hollywood	KVOR 1270 1000 C	Miami Beach
Fairbanks	230	KFWB 950 1000	Denver	WKAT 1500 100
	000	Long Beach KFOX 1250 1000	KFEL 920 500M	Orlando
Juneau	,00	KGER 1360 1000	KLZ 560 1000 C	WDBO 580 1000 C
	100	Los Angeles	KOA 830 50000 R	Pensacola
Ketchikan		KECA 1430 1000 B	KPOF 880 1000	WCOA 1340 500 C
KGBU 900 5	500	KEHE 780 1000	KVOD 920 500 B Durango	St. Augustine WFOY 1210 100
ARIZONA		KFAC 1300 1000	KIUP 1370 100	St. Petersburg
		KFI 640 50000 R	Grand Junction	WSUN 620 1000 N
Globe		KFSG 1120 500 KFVD 1000 1000	KFXJ 1200 100	Tallahassee
	00	KFVD 1000 1000 KGFJ 1200 100	Greeley	WTAL 1310 100
Jerome KCRJ 1310 1	100	KHJ 900 1000M	KFKA 880 500M	Tampa
Lowell	100	KMTR 570 1000	La Junta KOKO 1370 100	WDAE 1220 1000 C
	100	KNX 1050 50000 C	KOKO 1370 100	WFLA 620 1000 N West Palm Beach
Phoenix		KRKD 1120 500	Lamar KIDW 1420 100	WJNO 1200 100 C
KOY 1390 10	000 C	Merced	Pueblo	17)110 1200 100 €
KTAR 620 10	00 N	KYOS 1040 250	KGHF 1320 500 B	
Prescott	1	Modesto	Sterling	GEORGIA
	00	KTRB 740 250 Monterey	KGEK 1200 100	A 22
Safford KGLU 1420 1	.00	KDON 1210 100M		Albany WGPC 1420 100
Tucson	.00	Oakland	CONNECTICUT	Athens
KGAR 1370 1	00 C	KLS 1280 250	Bridgeport	WGAU 1310 100
KVOA 1260 10		KLX 880 1000	WICC 600 500M	Atlanta
Yuma		KROW 930 1000	Hartford	WAGA 1450 500 B
KUMA 1420 10	00	Pasadena	WDRC 1330 1000 C	WATL 1370 100
ADICANDAG	_	KPPC 1210 100	WT1C 1010 50000 B	WGST 890 1000 C
ARKANSAS		Redding KVCV 1200 100	WTIIT 1200 100M	WSB 740 50000 R
Blytheville	,	Sacramento	New Britain WNBC 1380 250	Augusta WRDW 1500 100 C
	00	KFBK 1490 10000 N	WNBC 1380 250 New Haven	WRDW 1500 100 C Columbus
El Dorado	1	KROY 1210 100 C	WELI 900 500	WRBL 1200 100
	00 [San Bernardino	New London	Griffin
Fort Smith	. 1	KFXM 1210 100M	New London WNLC 1500 100M	WKEU 1500 100
KFPW 1210 10	00	San Diego KFSD 600 1000 B	Waterbury	Macon
Hot Springs KTHS 1060 1000	0 N		WATR 1190 100	WMAZ 1180 1000 C
Jonesboro	0 14	KGB 1330 1000M San Francisco	WBRY 1530 1000M	Rome
KBTM 1200 10	00	KFRC 610 1000M	DELAWARE	WRGA 1500 100 Savannah
Little Rock	1	KGGC 1420 100	DEBITWARE	WSAV 1310 100
KARK 890 500	0 N	KGO 790 7500 B	Wilmington	WTOC 1260 1000 C

WEBQ 1210 Joliet WCLS 1310

WMBD 1440 1000 C

Peoria

100

100

KDTH 1340 Iowa City

KFJB 1200

880

Marshalltown

WSUI

500

500

100

Monroe

Shreveport KRMD 1310 1000 KTBS 1450 1000 N KWKH 1100 10000 C

Monroe
KMLB 1200 100
New Orleans
WBNO 1200 100
WDSU 1250 1000 B
WJBW 1200 100
WSMB 1320 1000 R
WWL 850 10000 C
Sheseport

BEATRIE

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

RELC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N ILLINOIS Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Chicago WAAF 920 1000 WHED 1370 100 Chicago WAAF 920 1000 WGVA 1050 1000 WHED 1370 100 Chicago WGFL 1370 250 WGWA 1050 1000 WHED 1370 100 WGVA 1050 1000 WGVA 1050 1000 WHED 1370 100 WGVA 1050 1000 WHED 1370 100 WGVA 1050 1000 WHED 1370 250 WGWA 1050 1000 WHED 1370 250 WGWA 1050 1000 WHED 1370 250 WGWA 1050 1000 WHED 1370 250 WHED 1370 250 WGWA 1050 1000 WHED 1370 250 WHED 1370 100 Cedar Rapids WMT 600 1000 WHED 1370 1000 WHED 1370 1000 Cedar Rapids WMT 600 1000 WHED 1370 1000 WHED 13		1
WAYN 1200	Thomasville	Quincy
Waycross WAYN 1200 100 Hawaii 100 WEDA 1370 100 Chicago WAAF 920 1000 Chicago WAAF 920 1000 WAAF 2200 1000 WAAF 920 1000	WPAX 1210 100	77.3.7 D 000 1000
WAYN 1200	Wasserson	
HAWAII	W 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WDOKISIA
HAWAII	WAYX 1200 100	
HAWAII		Rock Island
Hilo	TT A SEZ A T T	WHBF 1210 100
Hilo KHBC 1400 250M Honolulu KGMB 1320 1000 C KGU 750 2500 N	HAWAII	Springfield
WTAX 1210	Hilo	WCBS 1420 100
Honolulu	KIIDC 1400 OTOM	WTAX 1210 100
TOAHO	KIBC 1400 25031	Tuncala
IDAHO	Honolulu	Tuscola
Solication Sol		
Boise RIDO 1350 1000 N Coeur d'Alene KGCI 1200 100 Idaho Falls KID 1320 500 Lewiston KRLC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N ILLINOIS Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Chicago WAAF 920 1000 WAAF 920 1000 WHB 1370 100 Chicago WAAF 920 1000 WCFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WEDC 1210 100 WEDC 1210 100 WEDS 1360 500 WGR 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KFG 1370 100 Cedar Rapids WMT 600 1000 Bone KRNT 1320 1000 Cedar Rapids WHO 1000 50000 R	KGU 750 2500 N	
Boise KIDO 1350 1000 N Coeur d'Alene KGCI 1200 100 Idaho Falls KID 1320 500 Lewiston KRLC 1390 250 N Ampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N KSEI 900 250 N Twin Falls KTFI 1240 1000 N WIND 560 1000 East Dabuque WAF 200 100 Manufaction WIBC 1370 100 Manufaction WAF 1200 100 Manufaction WIBC 1370 100 Manufaction WAF 1200 100 Manufaction WAF 1200 100 Manufaction WAF 1300 100 Manufaction 100 Manufaction WAF 1300 100 Manufaction WA		WILL 580 1000
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Anderson		INDIANA
Coeur d'Alene KGCI 1200 100 Elkhart WTRC 1310 100 Elkhart WTRC 1310 100 Evansville WTRC 1310 100 Evansville WTRC 1310 100 Evansville WTRC 1310 100 WGA 1370 100 WGA 1370 100 WGBF 630 500 N WGWA 1370 100 WGWA 1200 100 Indianapolis WHIP 1480 5000 WHIP 1480 5000 WHIP 1480 5000 WWAE 1200 100 Indianapolis WHIP 1480 5000 WWAE 1200 100 Indianapolis WHIP 1480 5000 WWAE 1200 100 Indianapolis WHIP 1480 5000 WWAE 1200 100 WWAE 1310 100 WWAE 1370 100 WW		
Coeur d'Alene KGCI 1200 100	KIDO 1350 1000 N	Anderson
Color		WHBU 1210 100
Idaho Falls KID 1320 500 Lewiston KRLC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N	VCCI 1200 100	
STATE STAT	KGC1 1200 100	WTBC 1110 100
Lewiston KRLC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N MVWO 1160 1000 E MVWAE 1200 100 Indianapolis WFBM 1230 1000 WWAE 1200 100 MWAE 1200 100 MWAE 1200 100 MWAE 1200 100 MWEDC 1310 100 MVEDC 1370 100 MV		WIRC 1310 100
RRLC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N Twin Falls RTFI 1240 1000 N WIND 560 1000 Hammond WHIP 1480 5000 WAE 1200 100 Indianapolis WGAZ 1070 100 Champaign WOWA 1200 100 Indianapolis WFBM 1230 1000 WRED 1370 100 WRED 1310 100		
WGBF 630 500 N	Lewiston	
Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N	KRLC 1390 250	WGBF 630 500 N
WGL 1370 100 N	Nampa	Fort Wavne
WOWO 1160 10000 E	KEXD 1200 100	WGL 1370 100 N
SEI 900 250 N Twin Falls KTFI 1240 1000 N Hammond WHIP 1480 5000 WWAE 1200 100 Carthage WCAZ 1070 Champaign WDWS 1370 100 Chicago WCBD 1300 Tolon WCFL 970 5000 N WCRE 1210 100 WCFL 970 5000 N WCRW 1210 100 WCFL 970 5000 N WCFL 1360 500 WCFL 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone KCFQ 1370 100 CCedar Rapids WMT 600 1000 Boone MCFL 1370 100 CCedar Rapids WMT 600 1000 Boone MCFL 1370 100 CCedar Rapids		
Twin Falls KTFI 1240 1000 N		
ILLINOIS		
ILLINOIS Bloomington WHE 1480 5000 WWAE 1200 100 Indianapolis WFBM 1230 1000 Conthage WCAZ 1070 100 Chicago WAAF 920 1000 Chicago WAAF 920 1000 WBBM 770 50000 Chicago WCFL 970 5000 NCFL 970 5000 NCFL 970 5000 NCFL 1210 100 WEDN 1210 100 WEDN 1210 100 WEBN 1360 500 WFAM 1200 100 WSBT 1360 100 WSBT 1360 500 WFAM 1200 100 WSBT 1360 100 WFAM 1200 100 W		
Indianapolis	KTFI 1240 1000 N J	Hammond
Indianapolis		WHIP 1480 5000
Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Chicago WGAX 1370 100 Chicago WGFB 1400 1000 R WGFB 1370 100 Chicago WGFB 1370 250 WGFB 1360 500 WGFB 1370 100 WGFB	LITINOIS	WWAE 1200 100
WJBC 1200 100 Carthage WCAZ 1070 100 Champaign WDWS 1370 100 Chicago WAAF 920 1000 WBBM 770 50000 C WCBD 1080 5000 WCFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGRS 1360 500 WGN 720 50000 B WGRS 1360 500 WGN 720 50000 B WMAD 670 50000 B WMAD 670 50000 B WMAD 670 50000 B WMAD 670 50000 B WMFC 1420 100 Danville WDAN 1500 250 Decatur WHFC 1420 100 East Dubuque WKBB 1500 100 East Dubuque KRB 1500 100 Calesburg WTMV 1500 250 WHO 1300 100 C CSSO 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C CEGAT Rapids WMT 600 1000 B CEGAT RAPIDS WMT 600 1000 B WHC 1270 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1270 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1370 100 C CEGAT RAPIDS WMT 600 1000 B WCC 1370 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1370 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1370 100 C CON 137	ILLINOIS	Indianapolis
WJBC 1200 100 Carthage WCAZ 1070 100 Champaign WDWS 1370 100 Chicago WAAF 920 1000 WBBM 770 50000 C WCBD 1080 5000 WCFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGRS 1360 500 WGN 720 50000 B WGRS 1360 500 WGN 720 50000 B WMAD 670 50000 B WMAD 670 50000 B WMAD 670 50000 B WMAD 670 50000 B WMFC 1420 100 Danville WDAN 1500 250 Decatur WHFC 1420 100 East Dubuque WKBB 1500 100 East Dubuque KRB 1500 100 Calesburg WTMV 1500 250 WHO 1300 100 C CSSO 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C Cedar Rapids WMT 600 1000 B WCC 1370 100 C CEGAT Rapids WMT 600 1000 B CEGAT RAPIDS WMT 600 1000 B WHC 1270 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1270 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1370 100 C CEGAT RAPIDS WMT 600 1000 B WCC 1370 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1370 100 C CEGAT RAPIDS WMT 600 1000 B WHC 1370 100 C CON 137	Bloomington	WFBM 1230 1000 C
WIRE 1400 1000 R	WIRC 1200 100	WGVA 1050 1000
WCAZ 1070 100 Champaign W DWS 1370 100 New Albany WGR 1370 250 WAAF 920 1000 WBBM 770 50000 C WCBD 1080 5000 WCFL 970 5000 N WCFL 970 5000 N WCFL 1210 100 WEDC 1210 100 WEDC 1210 100 WENR 870 50000 B WGN 720 50000 B WGN 720 50000 B WGN 720 50000 B WMAQ 670 50000 R WBM 130 100 N WSBT 1360 500 W	Ca-+1-00 100	WIRE 1400 1000 R
WLBC 1310 100 New Albany WGRC 1370 250 WAAF 920 1000 WGRC 1370 250	Cartnage	
New Albany New	WCAZ 10/0 100	WI DC 1210 100
Chicago WAAF 920 1000 WBBM 770 50000 C WCBD 1080 5000 WCFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGRS 1360 500 WGN 720 50000 B WGPS 1360 500 WGN 720 50000 B WMA 670 50000 B WMA 670 50000 B WMA 670 50000 B WMB 1 1080 5000 WSBC 1210 100 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 5000 R	Champaign	W LBC 1310 100
WAAF 920 1000 WBAM 770 50000 C WCBD 1080 5000 WCFL 970 5000 N WCFL 970 5000 N WEDC 1210 100 WEDC 1210 100 WENR 870 50000 B WGN 720 50000 B WGN 720 50000 B WSBC 1210 100 WSBT 1300	WDWS 1370 100	New Albany
WBBM 770 50000 C WCBD 1080 5000 N WCFL 970 5000 N WCFL 970 5000 N WEDC 1210 100 WEDC 1210 100 WEDC 1210 100 WSBT 1360 500 WBAN 1200 100 N WSBC 13160 100 N WSBC 1210 100 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WTBAN 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 C Gars St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R WGIL 1500 250 WHO 1000 50000 R WSBC 1210 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B Davenport WCC 1370 100 C Cedar Rapids WMT 600 1000 B DAVENDOR WCC 1370 100 C Cedar Rapids WMT 600 1000 B DAVENDOR WCC 1370 100 C Cedar Rapids WMT 600 1000 B DAVENDOR WCC 1370 100 C Cedar Rapids WMT 600 1000 B DAVENDOR WCC 1370 100 C Cedar Rapids WMT 600 1000 B DAVENDOR WCC 1370 100 C Cedar Rapids WMT 600 1000 B DAVENDOR WCC 1370 100 C CEDAR RAPID NOT	Chicago	
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WCBD 1080 5000 WCFL 970 5000 N WCFM 1210 100 WEDT 1310 100 WSBT 1360 500 WSBT 1360 500 WGR 870 50000 B WGW 3110 100 N WGES 1360 500 WGSBT 136	WBBM 770 50000 C	WKBV 1500 100
WCFL 970 5000 N WCRM 1210 100 WSBT 1360 500 WSBT 1360 100 WSBT 1360 1360 100 WSBT 1360 1360 1360 100 WSBT 1360		South Bend
Terre Haute WBOW 1310	WCET 070 5000 N	WFAM 1200 100
Terre Haute WBOW 1310	WCDW 1210 100 N	WSBT 1360 500
WENR 870 50000 B WGES 1360 500 WGN 720 50000M WJJD 1130 20000 WLS 870 50000 B WMAQ 670 50000 R WMR 1 1080 5000 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WRSC 1210 100 Cedar Rapids WMT 600 1000 B Davenport WOC 1370 100 C Cedar Rapids WMT 600 1000 B CECOTAH KGCA 1270 100 KWLC 1270 100 Des Moines KRNT 1320 1000 C KSO 1430 500 B WHO 1000 50000 R	WCRW 1210 100	
WGE\$ 1360 500 WGR 720 50000 M WJJD 130 20000 WLS 870 50000 B WMAQ 670 50000 R WBG 1080 5000 WSBC 1210 100 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WHO 1000 1430 1000 C Galesburg WHO 1000 50000 R WHO 1000 50000 R 1000 C Galesburg	WEDC 1210 100	WROW 1310 100 N
WBAA 890 500		When Tale
WJJD	WGES 1360 500	West Larayette
MJJD	WGN 720 50000M I	WBAA 890 500
WMAQ 670 50000 R WMBI 1080 5000 WSBC 1210 100 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 WSWTMV 1500 100 Galesburg WGIL 1500 250 Ames WOI 640 5000 Eodar Rapids WMT 600 1000 B Davenport WOC 1370 100 C ECCA 1270 100 EWLC 1270 100 Des Moines KRNT 1320 1000 C KSO 1430 500 B	WIID 1130 20000	
WMAQ 670 50000 R WMBI 1080 5000 WSBC 1210 100 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 WSWTMV 1500 100 Galesburg WGIL 1500 250 Ames WOI 640 5000 Eodar Rapids WMT 600 1000 B Davenport WOC 1370 100 C ECCA 1270 100 EWLC 1270 100 Des Moines KRNT 1320 1000 C KSO 1430 500 B	WLS 870 50000 B	IOWA
WMB	WM AO 670 50000 P	Ames
WSRC 1210 100 Cicero WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	17M D 1000 5000 K	WOL CO TOO
WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	W W D I 1000 3000	
WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	WSBC 1210 100	Boone
WHFC 1420 100 Danville WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	Cicero	KFGQ 1370 100
Danville WMT 600 1000 B WDAN 1500 250 Decatur WOC 1370 100 C East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	WHFC 1420 100	Cedar Rapids
WDAN 1500 250 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	Danville	WMT 600 1000 B
Decatur WOC 1370 100 C	WDAN 1500 250	Davenport
WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 Decorah KGCA 1270 100 KWLC 1270 100 CWLC 1270 100 WHO 1000 50000 R	Decamir	WOC 1370 100 C
East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	WIRL 1200 100	
East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	Fact Dubucua	ECCA 1270 100
East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	UZZDD 1500 100 C	NGCA 12/0 100
East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 WHO 1000 50000 R	AN W D R 1200 100 C	KWLC 1270 100
Galesburg KSO 1430 500 B WGIL 1500 250 WHO 1000 50000 R	East St. Louis	Des Moines
Galesburg KSO 1430 500 B WGIL 1500 250 WHO 1000 50000 R	WTMV 1500 100	KRNT 1320 1000 C
WGIL 1500 250 WHO 1000 50000 R	Galesburg	KSO 1430 500 B
1	WGIL 1500 250	WHO 1000 50000 R
Harrisburg I Dubuque	Harrisburg	Dubuque
WERO 1210 100 KDTH 1340 500	WEBO 1210 100	KDTH 1340 500

Mac	on City	,,
	1210	100 C
	nandoah	
Sher	andoar	
KFNF	890	500
KMA	930 x City 1330	1000 B
Siou	x City	
KSCJ KTRI	1330	1000 C
KTRI	1420	100
F	(ANSA	.S
Abile	ene	
KFBI		5000
Atch		0000
KVAK	1/20	100
KVAK Coffe		100
KGGF	1010	100035
		$1000\mathrm{M}$
Dode	e City	250
KGNO		250
Gard	en City	,
KIUL Great KVGB	1210	100
Great	t Bend	
KVGB	1370	100
Hutc KWBG	hinso n	
KWBG	1420	100
Kans	as Citv	,
KCKN	1310	100
Lawr	ence	
KEKII	1220	1000
KFKU WREN	1220	1000 B
Manh	attan	1000 B
KSAC		500
Pittsl		300
		1000 37
KOAM		1000 N
Salin		
KSAL	1500	100
Tope	ka	1
WIBW	580	1000 C
Wich	ita	
KANS KFH	1210	100 B
\mathbf{KFH}	1300	1000 C
ΚE	NTUC	KY [
Ashla	nd	
WCMI	1310	100
Covin	oton	
WCKY	1490 1	0000 N
Levin	orton	
Lexin WLAP	1420	100
Tari	1420	100
Louis	VIIIe	1000 17
WAVE WHAS	940	1000 N
WHAS	820	50000 C
Owen	sboro	
WOMI		100
Padu	cah	
WDAD	1 400	100 1

WPAD 1420

LOUISIANA Alexandria KALB 1210

Baton Rouge WJBO 1120

Lafayette KVOL 1310 Lake Charles KPLC 1500

100

100

100

100

500 B

I	MAIN	E
Augu	sta	
WRDO		100M
Bang	or	
WABI WLBZ	1200	100
WLBZ	620	500 C
Lewis	ter	
wcov	1210	100
Portla	and	
WCSH WGAN	940	1000 R
Presq	ue Is	
WAGM	1420	100
MA	RYLA	AND
Baltin	поге	
WBAL	760	2500 B
WBAL	1060	10000 B
WBAL WBAL WCAO WCBM WFBR	600	500 C
WCBM	1370	100
WFBR	1270	500 R
Coll	ege l	Carr
waxi "	1060	100
Cumb WTBO	erland	1 250
Frede	800	250
WFMD	900	roo.
Hager	900	500
WJEJ	1210	100
		100
Salisb WSAL	1200	250
110.11	1200	
MASSA	CHU	SETTS
Bosto	n	
WAAB WBZ	1410	500 M
WBZ	990	50000 B
WCOP WEEI	1120	500
WEEI	590	1000 C
WHDH WMEX	830	1000
WMEX	1500	100
WNAC WORL	1230	1000 R
WORL	920	5 00
Cape	Cod	
WOCB-	1210	100
Fall I WSAR	river	
WSAR	1450	1000 M
Green	neld	050
WHAI	1210	250
Lawre	400	1000
WLAW WLLH Lowel	1270	1000
WLLH	13/0	100
Nove	Bade-	-4
WNIT	1310	100M
New WNLH WLLH	1370	100M
	10,0	100141

NORTH I	inibilitation by the		
D:44-6-14	Northfield	Bozeman	Whippany
Pittsfield WBRK 1310 100 C	WCAL 760 1000	KRBM 1420 100	W3XDD 50000
Springfield 100 C	Rochester	Butte	Zarephath
WBZA 990 1000 B	KROC 1310 100	KG1R 1340 1000 N	WAWZ 1350 500
WMAS 1420 100 C	KROC 1310 100 St. Cloud	Great Falls	
WSPR 1140 500M	KFAM 1420 100	KFBB 1280 1000 C	NEW MEXICO
Worcester	St. Paul	Helena	
WORC 1280 500 C	KSTP 1460 10000 R	KPFA 1210 100 N	Albuquerque
WTAG 580 1000 R	WMIN 1370 100	Kalispell	KGGM 1230 1000
	Virginia	KGEZ 1310 100	KOB 1180 10000 N
MICHIGAN	WHLB 1370 100 C	Lewistown KDNC 1200 100	Carlsbad
	Winona KWNO 1200 250	Missoula	KLAH 1210 100
Battle Creek	KWNO 1200 250	KGVO 1260 1000 C	Clovis K1CA 1370 100
WELL 1420 100	MISSISSIPPI	Wolf Point	Gallup
Bay City	M12212215b1	KGCX 1450 1000	KAWM 1500 100
WBCM 1410 500	Grenada		Hobbs
Calumet WHDF 1370 100	WGRM 1210 100	NEBRASKA	KWEW 1500 100
***************************************	Gulfport		Roswell
Detroit WIBK 1500 100	WGCM 1210 100	Clay Center	KGFL 1370 100
WIR 750 50000 C	Hattiesburg	KMMJ 740 1000 Kearney	Santa Fe
WMBC 1420 100	WFOR 1370 100	KGFW 1310 100	KRQA 1310 100
WWI 920 5000 R	Jackson	Lincoln	
WXYZ 1240 1000 B	WJDX 1270 1000 R	KFAB 770 10000 C	NEW YORK
East Lansing	WSLI 1420 100 Kosciusko	KFOR 1210 100 C	
WKAR 850 1000	WHEF 1500 100	Norfolk	Albany
Flint	Laurel	WJAG 1060 1000 North Platte	WABY 1370 100 N WOKO 1430 500 C
WFDF 1310 100	WAML 1310 100	North Platte	
Grand Rapids WASH 1270 500 N	Meridian	KGNF 1430 1000	Auburn
WOOD 1270 500 N	WCOC 880 1000 C	Omaha KOIL 1260 1000 B	WMBO 1310 100
Ironwood	Vicksburg	WAAW 660 500	Binghamton WNBF 1500 100 C
WJMS 1420 100	WQBC 1360 1000	WOW 590 1000 R	Recolden
Jackson		Scottsbluff	WARD 1400 500
WIBM 1370 100	MISSOURI	KGKY 1500 100	WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WVFW 1400 500
Kalamazoo WKZO 590 1000 B			WBBR 1300 1000
Lansing	Cape Girardeau	NEVADA	WCNW 1500 100
WJIM 1210 100	KFVS 1210 100 Columbia	Reno	WLTH 1400 500 WVFW 1400 500
Lapeer	KFRU 630 500	KOH 1380 500 C	Buffalo 300
WMPC 1200 100	Jefferson City	Ken 1500 500 C	VREN 900 1000 R
Marquette	KWOS 1310 100	NEW HAMPOHIPE	WBNY 1370 100
WBEO 1310 100	Joplin	NEW HAMPSHIRE	WEBR 1310 100 B
Muskegon WKBZ 1500 100	WMBH 1420 100	Laconia	WGR 550 1000 C WKBW 1480 5000 C
WKBZ 1500 100 Port Huron	Kansas City	WLNH 1310 100M	
WHLS 1370 250	KCMO 1370 100 KITE 1530 1000	Manchester	WSVS 1370 50
Royal Oak	KMBC 950 1000 C	WFEA 1340 500 N	Canton WCAD 1220 500
WEXL 1310 50	WDAF 610 1000 R	Portsmouth	Elmira
Saginaw	WHB 860 1000M	WHEB 740 250	WENY 1200 250
WHAL 950 500	Poplar Bluff		WESG 850 1000 C
MINNESOTA	KWOC 1310 100	NEW JERSEY	Freeport
	St. Joseph KFEQ 680 2500	Ashum Dash	WGBB 1210 100
Albert Lea KATE 1420 250	St. Louis	Asbury Park WCAP 1280 500	Jamestown WJTN 1210 100 B
Duluth	KFUO 550 500	Atlantic City	Newburgh
KDAL 1500 100 C	KMOX 1090 50000 C	WPG 1100 5000 C	WGNY 1210 100
KDAL 1500 100 C WEBC 1290 1000 N	KSD 550 1000 R	Bridgeton	New York
Fergus Falls	KWK 1350 1000 B	WSNJ 1210 100	WABC 860 50000 C
KGDE 1200 100	KXOK 1250 1000	Camden	WBIL 1100 5000
Hibbing	WEW 760 1000 WIL 1200 100	WCAM 1280 500	WBNX 1350 1000
WMFG 1210 100 Mankato	Springfield	Jersey City WAAT 940 500	WBOQ 860 50000 WEAF 660 50000 R
KYSM 1500 100	KGBX 1230 500 N	WHOM 1450 250	WEVD 1300 1000
Minneapolis	KWTO 560 5000	Newark	WEVD 1300 1000 WFAB 1300 1000
WCCO 810 50000 C		WHBI 1250 1000	WHN 1010 1000
WDGY 1180 1000 C	MONTANA	WOR 710 50000M	WINS 1180 1000
WLB 760 1000	MONTANA	Red Bank	WIZ 760 50000 B
WTCN 1250 1000 B Moorhead	Billings	WBRB 1210 100	WMCA 570 1000
KVOX 1310 100	KGHL 780 1000 N	Trenton WTNI 1280 500	WNEW 1250 1000 WNYC 810 1000
	1000 14		

	1		HDW4
WOV 1130 1000 WQXR 1550 1000	Walley City KOVC 1500 100	OREGON	KDKA 980 50000 B
Ölean	1300 100	Astoria KAST 1370 100	WCAE 1220 1000 R
WHDL 1400 250	OHIO	Baker	WJAS 1290 1000 C WWSW 1500 100
Plattsburg WMFF 1310 100 B	Akron	KBKR 1500 100 Bend	Reading
Rochester	WADC 1320 1000 C	KBND 1310 100	WEEU 830 1000
WHAM 1150 50000 B WHEC 1430 500 C	WJW 1210 100 Ashtabula	Corvallis	WRAW 1310 100 Scranton
WSAY 1210 100	WICA 940 250	KOAC 550 1000 Eugene	WGBI 880 500 C
Saranac Lake	Canton WHBC 1200 100	KORE 1420 100M	WOAN 880 500 Sharon
WNBZ 1290 100 Schenectady	Cincinnati	Klamath Falls KFII 1210 100	WPIC 780 250
WGY 790 50000 R	WCPO 1200 100	KFJI 1210 100 La Grande	Sunbury
Syracuse WFBL 1360 1000 C	WKRC 550 1000 C WLW 700 500000N	KLBM 1420 100	WKOK 1210 100 Uniontown
WSYR 570 1000 B	WSAI 1330 1000 N	Marshfield KOOS 1200 100	WMBS 1420 250
WSYU 570 1000	Cleveland WCLE 610 500M	Medford	Wilkes-Barre WBAX 1210 100M
Troy WHAZ 1300 1000	WGAR 1450 500 C	KMED 1410 250 N	WBAX 1210 100M WBRE 1310 100 N
Utica	WHK 1390 1000 B	Portland KALE 1300 1000M	Williamsport
WIBX 1200 100C	WTAM 1070 50000 R Columbus	KBPS 1420 100	WRAK 1370 100
White Plains WFAS 1210 100	WBNS 1430 1000 C	KEX 1180 5000 B KGW 620 1000 R	WORK 1320 1000 N
Woodside	WCOL 1210 100 N WHKC 640 500M	KOIN 940 1000 C	
WWRL 1500 100	WOSU 570 750	KWJJ 1040 500 KXL 1420 100	PUERTO RICO
NORTH CAROLINA	Dayton WHIO 1260 1000 C	Roseburg	Mayaguez WPRA 1370 100
Asheville	WHIO 1260 1000 C WSMK 1380 200 C	KRNR 1500 100M	Ponce
WWNC 570 1000 N Charlotte	Lima	Salem KSLM 1370 100M	WPRP 1420 100 San Juan
WBT 1080 50000 C	WBLY 1210 100 Portsmouth	100.00	WKAQ 1240 1000
WSOC 1210 100 N Durham	WPAY 1370 100	PENNSYLVANIA	WNEL 1290 1000
WDNC 1500 100 C	Toledo WSPD 1340 1000 B	Allentown	RHODE ISLAND
Greensboro WBIG 1440 1000 C	WTOL 1200 100	WCBA 1440 500	
High Point	Youngstown WFMJ 1420 100	WSAN 1440 500 N Altoona	Providence WEAN 780 1000M
WMFR 1200 100	WFMJ 1420 100 WKBN 570 500 C	WFBG 1310 100	WJAR 890 1000 R
Kinston WFTC 1200 100	Zanesville	Easton WEST 1200 100	WPRO 630 500 C
Raleigh	WALR 1210 100	Erie 1200 100	SOUTH CAROLINA
WPTF 680 5000 N 1210 100	OKLAHOMA	WLEU 1420 100 B	300TH CAROLINA
Rocky Mount	Ada	Glenside WIBG 970 100	Anderson WAIM 1200 100 C
WEED 1420 100 Salisbury	KADA 1200 100 M	Greensburg	WAIM 1200 100 C Charleston
1500 100	Ardmore KVSO 1210 100M	WHJB 620 250 C Grove City	WCSC 1360 500 N
Wilmington WMFD 1370 100	Elk City	WSAJ 1310 100	Columbia WIS 560 1000 N
Wilson	KASA 1210 100 Enid	Harrisburg WHP 1430 500 C	Florence
WGTM 1310 100	KCRC 1360 250M	WKBO 1200 100	WOLS 1200 100 Greenville
Winston-Salem WAIR 1250 250	Muskogee KBIX 1500 100M	Hazelton WAZL 1420 100	WFBC 1300 1000 N
WSJS 1310 100 C	Norman	Johnstown	Spartanburg WSPA 920 1000
NORTH DAKOTA	WNAD 1010 1000	WJAC 1310 100	WSIA 920 1000
Bismarck	Oklahoma City KOCY 1310 100	Lancaster WGAL 1500 100 N	SOUTH DAKOTA
KFYR 550 1000 N	KOMA 1480 5000 C	New Castle	
Devils Lake KDLR 1210 100	KTOK 1370 100M WKY 900 1000 N	WKST 1250 250 Philadelphia	Aberdeen KABR 1390 500
Fargo	Okmulgee	KYW 1020 10000 R	Brookings
WDAY 940 1000 N Grand Forks	KHBG 1210 100 Ponca City	WCATT 1170 50000 C WDAS 1370 100	KFDY 780 1000
KFIM 1410 500	WRB7 1200 100M	WFII. 560 1000 B	Pierre KGFX 630 200
Jamestown KRWC 1370 100	Shawnee KGFF 1420 100M	WHAT 1310 100 WIP 610 1000	Rapid City
Mandan	T11148	WPFN 920 1000	KOBH 1370 100 WCAT 1200 100
Minot 250	KTFL 1310 250 KTTT 1400 1000 C	WRAY 920 1000	Sioux Falls
חשב האנו ונים דש	KTIT 1400 1000 C KVOO 1140 25000 W	WTEI, 1310 100 Pittsburgh	KSOO 1110 5000 N
			11.0 5550 11

NOKIA.		STATIONS BY LUCA
Vermillion	KPRC 920 1000 R	I WODM 1390 1000
KUSD 890 500	KTRH 1290 1000 C	Springfield W
Yankton	KXYZ 1440 1000 B	L WNRY 1260 500 C
WNAX 570 1000 C	Huntsville	Waterbury W
TENNESSEE	KSAM 1500 100	WDEV 550 500
	Kilgore	VIRGINIA
Bristol	KOCĂ 1210 100	
WOPI 1500 100	Laredo	Charlottesville W
Chattanooga	KPAB 1500 100	WCHV 1420 100
WAPO 1420 100	Longview	Danville W
WDOD 1280 1000 C	KFRO 1370 250	WBTM 1370 100
Jackson WTJS 1310 100	Lubbock	Harrisonburg
WTJS 1310 100	KFYO 1310 100	WSVA 550 500
Johnson City	Lufkin	Lynchburg
1200 100	KRBA 1310 100	WLVA 1200 100 W
Knoxville	Midland	Newport News
WNOX 1010 1000 C WROL 1310 100 N	KRLH 1420 100	111CTT 1210 100 1
	Palestine	Norfolk KI
Memphis	KNET 1420 100	WTAR 780 1000 N W
WHBQ 1370 100	Pampa	Richmond W
WMC 780 1000 R	KPDN 1310 100	WBBL 1210 100 W
WMPS 1430 500 B	Paris	WMBG 1350 500 R W
WREC 600 1000 C	KPLT 1500 250	WRNL 880 500
Nashville	Pecos	WRTD 1500 100 B W
WLAC 1470 5000 C	KIUN 1420 100	WRVA 1110 5000 C
WSIX 1210 100	Port Arthur	Roanoke W
WSM 650 50000 N	KPAC 1260 500	WDBJ 930 1000 C W
TEXAS	San Angelo	
	KGKL 1370 100	WASHINGTON W
Abilene	San Antonio	
KRBC 1420 100	KABC 1420 100	Aberdeen KXRO 1310 100M W
Amarillo KGNC 1410 1000 N	KMAC 1370 100	Bellingham W
	KONO 1370 100	KVOS 1200 100M W
Austin KNOW 1500 100 C	KTSA 550 1000 C	Centralia 1
	WOAI 1190 50000 N	KELA 1440 500M W
KTBC 1120 1000 Beaumont	Sherman	Fverett 1
KFDM 560 500 N	KRRV 1310 250	KRKO 1370 50 W
KRIC 1420 100	Temple	Longview
Pig Spring	KTEM 1370 250	KWLK 780 250 W
Big Spring KBST 1500 100	Texarkana	Olympia
Brady	KCMC 1420 100	K6Y 1210 100 M W
KNEL 1500 250	Tyler KGKB 150-) 100	Pullman
Brownsville	KGKB 150-) 100 Victoria	KWSC 1220 1000 WI
KGF! 1500 100	KVIC 1310 100	Seattle
College Station	Waco	KEEN 1370 100 W
WTAW 1120 500	WACO 1420 100 C	KIRO 710 1000 C
Corpus Christi	Weslaco	KIR 970 5000 B WS
KRIS 1330 500 N	KRGV 1260 1000 N	KOL 1270 1000 M
Corsicana	Wichita Falls	KOMO 920 1000 R
KAND 1310 100	KWFT 620 250	KRSC 1120 250
Dallas	N.V.1. 020 200	KTW 1220 1000
KRLD 1040 10000 C	UTAH	KTW 1220 1000 KXA 760 250 KI
WFAA 800 50000 N	UIAH	Choleana
WRR 1280 500 M	Cedar City	KFIO 1120 100 K
Denton	KSUB 1310 100	KFPY 890 1000 C
KDNT 1420 100	Logan KVNU 1500 100	KGA 1470 5000 B KV
Dublin	KVNU 1500 100	KHQ 590 1000 R
KFPL 1310 100	Ogden	Tacoma
El Paso	KLO 1400 500 B	KMO 1330 1000M
KROD 1500 100	Price	KVI 570 1000 C ZN
KTSM 1310 100 N	KEUB_1420100	Walla Walla
WDAH 1310 100	Salt Lake City	KUJ 1370 100
Fort Worth	KDYL 1290 1000 R	Wenatchee
KFJZ 1370 100	KSL 1130 50009 C	KIT 1250 250M
KGKO 570 1000 B	KUTA 1500 100	WEST WINCINIA
KTAT 1240 1000M	VEDMONT	WEST VIRGINIA CF
WBAP 800 50000 N	VERMONT	Biuchelu
Galveston	Burlington	WHIS 1410 500 CJ
KLUF 1370 100	WCAX 1200 100	Charleston I
Greenville	Rutland	WCHS 580 500 C CF
KGVL 1200 100	WSYB 1500 100	WHKV 1500 100 CI
Houston	St. Albans	Clarksburg CK

	-	
WBLK		100
Fairm	ont	
WMMN		500 C
Hunti	ngton	
WSAZ	1190	1000
Parke	rsburg	
WPAR	1420	100 C
Wheel	ing	
WWVA		5000 C

WISCONSIN Eau Claire EAU 1050 1000 Fond du Lac (FIZ 1420 Green Bay VHBY 1200 VTAQ 1330 1 100 100 1000 C Janesville CLO 1200 100 LaCrosse KBH 1380 1000 € Madison HA 940 IBA 1280 5000 1000 N Manitowoc OMT 1210 100 Milwaukee VEMP 1310 VISN 1120 VTMJ 620 100 250 C 1000 N Poynette IBU 1210 100 Racine VRJN 1370 Rice Lake VJMC 1210 Sheboygan 100 250 HBL 1300 250 Stevens Point LBL 900 5 5000 Superior DSM 1200 100 Wausau SAU 1370 100

Caspe	r			
KDFN		500		
Rock				
KVRS		100		
Sherid				
KWYO	1370	100		
PAHAMAS				

WYOMING

BAHAMAS

Nassau ZNS 540 400

CANADA

ALBERTA

Calga	ry		7
CFAC	930	1000	F
CFCN	1030	10000	
CJCJ	690	100	F
Edmo	nton		
CFRN	960	100	F
CJCA	730	1000	F
CKUA	580	500	

NORTH	AMERICAN B. C.	STATIONS BY LO	CATIONS
Grande Prairie	Cobalt	CRCK 950 1000 F	CMCF 810 5000
CFGP 1200 100	CKMC 1210 50	Rimouski	CMCG 680 150
Lethbridge CIOC 950 100 F	Fort William CKPR 730 100 F	CJBR 1030 1000 F Sherbrooke	CMCJ 1110 500 CMCK 1030 5000
5,00 ,00 100 1	Hamilton	CHLT 1210 100	CMCL 730 10000
BRIT. COLUMBIA	CHML 1010 100 F CKOC 1120 500 F	Three Rivers	CMCM 850 250
C1 :::: .	CKOC 1120 500 F Kengra	CHLN 1420 100	CMCO 1200 150 CMCO 1200 150
Chilliwack CHWK 780 100 F	1420 100		CM CR 1380 150
Kamloops	Kingston CFRC 1510 100 F	SASKATCHEWAN	CMCU 1290 500
CFJC 880 1000 F	London	Moose Jaw	CMCW 1140 150 CMCX 1380 150 CMCY 570 10000
Kelowna CKOV 630 100 F	CFPL 730 100 F	Moose Jaw CHAB 1200 100 F	CMCY 570 10000
Prince Rupert	North Bay CFCH 930 100 F	Prince Albert CKBI 1210 100 F	CMK 720 250
CFPR 580 50 Trail	CJKL 1310 100 F	CKBI 1210 100 F	CMOA 1440 150 CMOX 1320 200
CJAT 910 1000 F	CKGB 1420 100 F Ottawa	CJRM 540 1000 F	CMQ 600 25000
Vancouver	CBO 880 1000 F	CKCK 1010 1000 F Saskatoon	CMW 880 1400 CMX 920 1000
CBR 1100 5000 F CIOR 600 500	CKCO 1010 100 F	CFQC 840 1000 F	CMX 920 1000 Holguin
CKCD 1010 100	Owen Sound 1370 100	Yorkton	CMKF 1460 250
CKFC 1410 50	Prescott	CJGX 1390 100 F	CMKO 1280 200 Manzanillo
CKMO 1410 100 CKWX 1010 100	CFLC 930 100	COSTA RICA	CMKM 1120 100
Victoria	St. Catharines CKTB 1200 100 F		Matanzas
CFCT 1450 500	Sault Ste. Marie	San Jose TIPG 625 2000	CMGC 1400 200 CMGF 1120 75
MANUTORA	C] IC 1500 100 F	TIX 650 1000	CMGH 790 250
MANITOBA	Stratford CICS 1210 50		Moron CMIP 1430 75
Brandon CKX 1120 1000 F	Sudbury	CUBA	CMJP 1430 75 Pinar del Rio
Flin Flon	CKSO 780 1000 F Toronto	Bayamo	CMAB 1340 100
CFAR 1370 100	CBL 840 50000 F	CMKL 990 60 Caibarien	Sagua la Grande CMHA 1070 50
Winnipeg CIRC 630 500 F	CFRB 690 10000 C	CMHD 1270 250	Sancti Spiritus
CKY 910 15000 F	CKCL 580 100 F CRCY 960 100 F	Camaguey CMIA 1010 250	CMHB 1240 50
	Waterloo	CMJA 1010 250 CMJC 1390 200	Santa Clara CMHI 1210 250
NEW BRUNSWICK	CKCR 1510 100 Windsor	CMJE 1220 50	CMHW 820 100
Fredericton	CKLW 1030 5000 F	CMJF 1150 200 CMJK 1290 200	Santiago CMKC 1250 150
CFNB 550 500 F	Wingham	CMJQ 1080 200	CMKD 1050 250
Moncton CKCW 1370 100 F	CKNX 1200 100	CMIW 1340 300	CMKG 1160
St. John	PRINCE EDWARD	CMJX 830 500 Cardenas	CMKR 1400 250 CMKW 1350
CHSJ 1120 500 F	ISLAND	CMGE 1370 200	CMKX 1190 75
W. W. SPERTSON	- ISBAND	Ciego de Avila CMJH 1360 200	DOMINICAN
N. W. TERRITORY	Charlottetown	CMJI 1130 150	REPUBLIC
Aklavik CJCU 1210 50	CFCY 630 1000 F CHCK 1310 50	CMJO 1180 50	
C)CC 1210 30	Summerside	Cienfuegos CMHJ 1160 100	Ciudad Trujillo HIN 1090 740
NOVA SCOTIA	CHGS 1450 50 F	CMHM 1450 150	HIT 1050 50
		CMHX 1300 200 Cruces	HIX 800 800
Glace Bay VAS 685 2000	QUEBEC	CMHK 1330 250	EL SALVADOR
Halifax	Chicoutimi	Guantanamo	San Salvador
CHNS 930 1000 F	CRCS 1120 100 F	CMKS 960 60 Havana	YSS 640 500
Sydney CICB 1240 1000 F	Hull CKCH 1210 100 F	CMBC 950 150	GUATEMALA
Wolfville	CKCH 1210 100 F Montreal	CMBD 1260 500 CMBF 770 5000	
CKIC 1010 50 Yarmouth	CBF 910 50000 N	CMBL 750 500	Guatemala City TGW 1520 1000
CJLS 1310 100 F	CBM 1050 5000 F CFCF 600 500 B	CMBQ 680 5000	TGX 1400
	CHLP 1120 100 F	CMBS 1170 150 CMBX 1070 150	TG1 1320
ONTARIO	CKAC 730 5000 C	CMBY 970 200	Quezaltenango TGQ 1450 200
Brantford	New Carlisle CHNC 960 1000 F	CMBZ 1000 500 CMC 1260 150	
CKPC 930 100 F	Quebec	CMCA 1350 450	HONDURAS
Chatham CFCO 630 100 F	CHRC 580 100 CKCV 1310 100 F	CMCB 1230 150	Tegucigalpa
CFCO 630 100 F 1	CKCV 1310 100 F	CMCD 630 250	HRN 1250 50

NORTH	AMERICAN B. C. S	TATIONS BY LO	CATIONS
MEXICO AGUASCALIENTES	Villa Acuna XEDH 1340 200 XERA 840 250000	JALISCO Guadalajara	Nuevo Laredo XEBK 1080 100 XEDF 810 100
Aguascalientes XEBI 1000 25	D. F.	XED 1160 2500 Guzman XEBA 1080 20	XEFE 980 250 XENT 910 150000 Reynosa
Mexicali XEAA 750 200 XEAO 660 250	Gral, Anaya NEDA 1220 200 Mexico City XEAI 1250 500 XEAL 660 1000	MICHOACAN Morelia XEI 1370 125 NUEVO LEON	XEAW 960 100000 Tampico XEFW 1310 300 XES 990 250
Rosarito Beacty	XEB 1030 10000		VERACRUZ
XERB 739 100000 Tijuana XEAC 980 1000 XEAU 1320	XEBS 1340 200 XEBZ 810 100 XEDP 1080 500 XEFO 940 5000	Monterrey XEFB 870 200 XEG 1230 250 XEH 720 250	Cordoba XEAG 1310 10 Talapa
XEBG 820 1000 XEC 1150 100 XELO 530 10000	NEIP 1130 100 XEIW 870 500 NEK 890 100	XET 690 5000 XEX 1310 125	XEXB 1270 250 XEXD 1340 350 Minatitlan
XEMO 860 5000 XEOK 760 2500	NEL 1100 250 XELZ 1370 100 NEMN 1280 100	PUEBLA Puebla XETH 1210 100	XEDW 1150 20 Veracruz XETF 1220 12
CHIHUAHUA Chihuahua	NEN 780 1000 NENC 860 50 NEW 890 50000	SAN LUIS POTOSI	YUCATAN 250
XEBU 1200 50 XEFI 1440 250 Juarez XEF 1450 100 XEFV 1210 100	XENM 610 500 XEXS 1310 100 XEXX 1170 1000 XEYO 610 500 Tacuba	San Luis Potosi XECZ 1370 100 XEXH 1250 250 SINALOA	Merida XEFC 550 100 XEME 1240 50 XEZ 630 500
XEJ 1020 1000 XEP 1160 500 Parral XEAT 1210 250	XEFA 1180 500 Texcoco XEXE 1270 17	Mazatlan XEBL 1220 50	ZACATECAS
XEAT 1210 250	DURANGO	SONORA Cananea	Zacatecas XEAZ 1230 200
Piedras Negras	Durango XEBP 1150 250	XEFQ 1010 50 Hermosillo	MIQUELON St. Pierre
XEMU 580 250 XEPN 730 100000	XEE 1210 50	XEBH 930 500 Nogales	FQN 609 250
Sabinas XEBX 640 250 Saltillo	GUANAJUATO Irapuato	XEAF 990 750 Obregon XEAP 1340 50	St. John's VOAC 1065 40
XEAS 1160 100 XELA 1240 50	XEBO 1310 25 Leon	TAMAULIPAS	VOCM 1006 200 VOGY 840 400
Torreon XETB 1310 125	XEFM 1160 20 XEKL 1240 500	Matamoros XEAM 750 25	VONF 1195 500 VOWR 681 500

SCRAPBOOK

(Continued from page 15)

considerably, although listeners in these states usually report their share. Eastern DXers experience the greatest difficulty with the TP's, and occasionally a week will go by without an Aussie or Zedder being heard.

But regardless of where the listener rnay reside, it's an odds-on bet that the old stand-bys, patience and perseverance, will show not a few TP's before the season is over. Reception this year will be much better than the past two or three seasons and increased power Down Under will mean better signals and more catches.

(to be continued)

KTFL, Tulsa, has changed call letters to KOME.

KGGC, San Francisco, has changed to KSAN.

Γ	CBF 910 50000		CHWK 780 100		CKOV 630 100
	Montreal, P. Q.		Chilliwack, B. C.		Kelowna, B. C. CKPC 930 150
	CBL 840 50000		CJAT 910 1000 Trail, B. C.		Brantford, Ont.
<u> </u>	Toronto, Ont. CBM 1050 5000		CJBR 1030 1000		CKPR 730 100
1	Montreal, P. Q.		Rimouski, P. Q.		Fort William, Ont.
	CBO 880 1000		CJCA 730 1000		CKSO 780 1000
	Ottawa, Ont.		Edmonton, Alta.		Sudbury, Ont.
	CBR 1100 5000		CJCB 1240 1000		CKTB 1200 100 St. Catharines, Ont.
—	Vancouver, B. C.		Sydney, N. S. CJCJ 690 100		CKUA 580 500
1	CFAC 930 1000		Calgary, Alta.		Edmonton, Alta.
	Calgary, Alta, CFAR 1370 100		CJCS 1210 50		CKWX 1010 100
	Flin Flon, Man.		Stratford, Ont.	<u></u>	Vancouver, B. C.
	CFCF 600 500		CJCU 1210 50		CKX 1120 1000
<u> </u>	Montreal, Que.		Akiavik, N. W. T. CJGX 1390 100		Brandon, Man. CKY 910 15000
1	CFCH 930 100		Yorkton, Sask.		Winnipeg, Man.
	North Bay, Ont. CFCN 1030 10000		CIIC 1500 100		CMAB 1340 100
1	Calgary, Alta.		S. Ste. Marie, Ont.		Pinar del Rio, Cuba
	CFCO 630 100		CJKL 1310 100		CMBC 950 150
	Chatham, Ont.		North Bay, Ont. CJLS 1310 100		Havana, Cuba
	CFCT 1450 500		Yarmouth, N. S.	1	CMBD 1260 500
	Victoria, B. C. CFCY 630 1000	—	CJOC 950 100		Havana, Cuba CMBF 770 5000
	Charlottetown, P.E.I.		Lethbridge, Alta.		Havana, Cuba
	CFGP 1200 100		CJOR 600 500		CMBL 750 500
	Grande Praire, Alta.		Vancouver, B. C. CIRC 630 500	\vdash	Havana, Cuba
1 1	CFJC 880 1000		Winnipeg, Man.	ł	CMBQ 680 5000 Havana, Cuba
	Kamloops, B. C. CFLC 930 100	-	CIRM 540 1000		CMBS 1170 150
1	Prescott, Ont.		Regina, Sask.		Havana, Cuba
	CFNB 550 500		CKAC 730 5000		CMBX 1070 150
L	Fredericton, N. B.		Montreal, Que. CKBI 1210 100		Havana, Cuba CMBY 970 200
1	CFPL 730 100 London, Ont.	1	Prince Albert, Sask.	1	CMBY 970 200 Havana, Cuba
1	CFPR 580 50		CKCD 1010 100		CMBZ 1000 500
	Prince Rupert, B. C.		Vancouver, B. C.		Havana, Cuba
	CFQC 840 1000		CKCH 1210 100		CMC 1260 150
<u></u>	Saskatoon, Sask. CFRB 690 10000	L	Hull, Que. CKCK 1010 1000	\vdash	Havana, Cuba CMCA 1350 450
	Toronto, Ont.	j	Regina, Sask.		Havana, Cuba
\vdash	CFRC 1510 100		CKCL 580 100		CMCB 1230 150
	Kingston, Ont,		Toronto, Ont.		Havana, Cuba
	CFRN 960 100		CKCO 1010 100 Ottawa, Ont.		CMCD 630 250
	Edmonton, Alta.	-	CKCR 1510 100	 	Havana, Cuba CMCF 810 5000
	CHAB 1200 100 Moose Jaw, Sask.		Waterloo, Ont.	1	Havana, Cuba
—	CHCK 1310 50	†	CKCV 1310 100		CMCG 680 150
	Charlottetown, P.E.I.		Quebec, Que. CKCW 1370 100		Havana, Cuba
	CHGS 1450 50		CKCW 1370 100		CMCJ 1110 500
	Summerside, P.E.I.	<u></u>	Moncton, N. B. CKFC 1410 50	-	Havana, Cuba CMCK 1030 5000
	CHLN 1420 100 Three Rivers, P. Q.	1	Vancouver, B. C.		CMCK 1030 5000 Havana, Cuba
	CHLP 1120 100		CKGB 1420 100		CMCL 730 10000
	Montreal, Que.		North Bay, Ont.		Havana, Cuba
	CHLT 1210 100		CKIC 1010 50		CMCM 850 250
	Sherbrooke, P. Q.		Wolfville, N. S. CKLW 1030 5000		Havana, Cuba CMCO 1200 150
	CHML 1010 100		Windsor, Ont.		Havana Cuba
 	Hamilton, Ont. CHNC 960 1000		CKMC 1210 50		Havana, Cuba CMCQ 1410 5000 Havana, Cuba
	New Carlisle, Que.		Cobalt, Ont.		Havana, Cuba
	CHNS 930 1000		CKMO 1410 100		CMCR 1380 150
<u> </u>	Halifax, N. S.	-	Vancouver, B. C. CKNX 1200 100		Havana, Cuba CMCU 1290 500
	CHRC 580 100		Wingham, Ont.		
	Quebec, P. Q. CHSJ 1120 500		CKOC 1120 500		Havana, Cuba CMCW 1140 150
	St. John, N. B.		Hamilton, Ont.	<u></u>	Havana, Cuba
				1	

	CMCX 1380 150		CMKO 1280 200		KBPS 1420 100
	Havana, Cuba		Holguin, Cuba		Portland, Ore.
	CMCY 570 10000		CMKR 1400 250		KBST 1500 100
	Havana, Cuba	1	Santiago, Cuba	1	Big Spring, Texas
	CMGC 1400 200	-	CMKS 960 60	\vdash	KBTM 1200 100
	Matanzas, Cuba	1	Guantanamo, Cuba		Jonesboro, Ark.
	CMGE 1370 200		CMKW 1350		KCKN 1310 100
	Cardenas, Cuba	1	Santiago, Cuba	1	Kansas City, Kans.
	CMGF 1120 75		CMKX 1190 75		KCMC 1420 100
	Matanzas, Cuba CMGH 790 250		Santiago, Cuba		Texarkana, Texas
			CMOA 1440 150		KCMO 1370 100
	Matanzas, Cuba CMHA 1070 50		Havana, Cuba		Kansas City, Mo.
	Saguala Grande, Cuba		CMOX 1320 200		KCRC 1360 250
	CMHB 1240 50		Havana, Cuba	L	Enid, Okla.
	Sancti Spiritus, Cuba		CMQ 600 25000		KCRJ 1310 100
	CMHD 1270 250	\vdash	Havana, Cuba		Jerome, Ariz.
1	Caibarien, Cuba	1	CMW 880 1400	1	KDAL 1500 100
	CMHI 1210 250		Havana, Cuba CMX 920 1000		Duluth, Minn.
	Santa Clara, Cuba	ł	CMX 920 1000 Havana, Cuba		KDB 1500 100
	CMHJ 1160 100		CRCK 950 1000	-	Santa Barbara, Calif.
	Cienfuegos, Cuba		Quebec, Que.		KDFN 1440 500
	CMHK 1330 250		CRCS 1120 100		Casper, Wyo. KDKA 980 50000
	Cruces, Cuba		Chicoutimi, Que.		Pittsburgh, Pa.
	CMHM 1450 150		CRCY 960 100		KDLR 1210 100
	Cientuegos, Cuba CMHW 820 100	<u></u>	Toronto, Ont.		Devils Lake, N. D.
	Santa Clara, Cuba	i	FQN 609 250		KDNC 1200 100
	CMHX 1300 200		St. Pierre, Miquelon		Lewistown, Mont.
	Cientuegos, Cuba		HIN 1090 740		KDNT 1420 100
	CMJA 1010 250		Ciudad Trujillo, D. R.	2.41	Denton, Texas KDON 1210 100
	Camaguey, Cuba		HIT 1050 50		KDON 1210 100
	CMJC 1390 200	\vdash	Ciudad Trujillo, D. R. HIX 800 800		Monterey, Calif.
1	Camaguey, Cuba				KDTH 1340 500
	CMJE 1220 50		Ciudad Trujillo, D. R. HP50 1440		Dubuque, Iowa
	Camaguey, Cuba	1	Panama City, Panama		KDYL 1290 1000
	CMJF 1150 200		HRN 1250 50		Salt Lake City, Utah KECA 1430 1000
	Camaguey, Cuba		Tegucigalpa, Hon.		Los Angeles, Calif.
	CMJH 1360 200		KABC 1420 100		KEEN 1370 100
	Ciego de Avila, Cuba	1	San Antonio, Texas		Seattle, Wash.
	CMJI 1130 150		KABR 1390 500		KEHE 780 1000
	Ciego de Avita, Cuba CMJK 1290 200		Aberdeen, S. Dak.		Los Angeles, Calif.
	Camaguey, Cuba)	KADA 1200 100		KELA 1440 500
	CMJO 1180 50		Ada, Okla.		Centralia, Wash.
1	Ciego de Avila, Cuba		KALB 1210 100		KELD 1370 100
	CMJP 1430 75		Alexandria, La. KALE 1300 1000		El Dorado, Ark.
	Camaguey, Cuba	1	Portland, Ore.		KELO_1200 _ 100
	CMJQ 1080 200		KAND 1310 100		Sioux Falls, S. Dak.
	Camaguey, Cuba	ļ	Corsicana, Texas		KERN 1370 100
	CMJW 1340 300	 	KANS 1210 100		Bakersfield, Calif. KEUB 1420 100
	Camaguey, Cuba		Wichita, Kans		Price, Utah
	CMJX 830 500		KARK 890 500		KEX 1180 5000
L	Camaguey, Cuba		Little Rock, Ark.		Portland, Ore.
	CMK 720 250		KARM 1310 100		KFAB 770 10000
	Havana, Cuba		Fresno, Calif.		Lincoln, Neb.
	CMKC 1250 150		KASA 1210 100		KFAC 1300 1000
	Santiago, Cuba		Elk City, Okla. KAST 1370 100		Los Angeles, Calif.
	CMKD 1050 250	1			KFAM 1420 100
 	Santiago, Cuba CMKF 1460 250		Astoria, Ore. KATE 1420 250		St. Cloud, Minn.
	CMKF 1460 250 Holguin, Cuba	1	KATE 1420 250 Albert Lea, Minn.		KFAR 610 1000
	CMEC 1160		KAWM 1500 100		Fairbanks, Alaska
	Santiago, Cuba		Gallup, N. Mex.		KFBB 1280 1000 Great Falls, Mont.
	CMKL 990 60		KBIX 1500 100		
	Bayamo, Cuba		Muskogee, Okla.		Abilene, Kans. 5000
	CMKM 1120 100		KBKR 1500 100		KFBK 1490 10000
	Manzanillo, Cuba		Baker, Ore.		Sacramento, Calif.
			KBND 1310 100		KFDM 560 500
— —			Bend, Ore.		Beaumont, Texas
1					-
	<u> </u>				

	- COLUMN		B. C. SIAITON,	3 131 1	CALLS
	KFDY 780 1000		KFYR 550 1000		KGLU 1420 100
	Brookings, S. D.		Bismarck, N. D.	1	Safford, Ariz.
	KFEL 920 500		KGA 1470 5000		KGMB 1320 1000
_	Denver, Colo. KFEO 680 2500		Spokane, Wash.		Honolulu, T. H.
	KFEQ 680 2500 St. Joseph, Mo.		KGAR 1370 100	1	KGNC 1410 1000
	KFGQ 1370 100		Tucson, Ariz. KGB 1330 1000		Amarillo, Texas KGNF 1430 1000
	Boone, Iowa		San Diego, Calif.		North Platte, Neb.
	KFH 1300 1000		KGBU 900 500	—	KGNO 1340 250
	Wichita, Kans.		Ketchikan, Alaska	L	Dodge City, Kans.
	KFI 640 50000 Los Angeles, Calif.		KGBX 1230 500		KGO 790 7500
	KFIO 1120 100		Springfield, Mo.	 	San Francisco, Calif.
	Spokane, Wash.		KGCA 1270 100 Decorah, Iowa		KGU 750 2500 Honolulu, T. H.
	KFIZ 1420 100		KGCI 1200 100		KGVL 1200 100
	Fond du Lac, Wis.		Coeur d'Alene, Idaho		Greenville, Texas
	KFJB 1200 100 Marshalltown, Iowa		KGCU 1240 250		KGVO 1260 1000
	KFJI 1210 100	\vdash	Mandan, N. D.	ļ	Missoula, Mont.
	Klamath Falls, Ore.		Wolf Point, Mont.		KGW 620 1000 Portland, Ore.
	KFJM 1410 500		KGDE 1200 100		KGY 1210 100
-	Grand Forks, N. D.		Fergus Falls, Minn.	L	Olympia, Wash.
1	KFJZ 1370 100 Fort Worth, Texas	1	KGDM 1100 1000		KHBC 1400 250
	KFKA 880 500		Stockton, Calif.	<u></u>	Hilo, T. H.
	Greeley, Colo.		KGEK 1200 100	ľ	KHBG 1210 100
	KFKU 1220 1000		Sterling, Colo. KGER 1360 1000		Okmulgee, Okla. KHJ 900 1000
	Lawrence, Kans. KFNF 890 500		Long Beach, Calif.		Los Angeles, Calif.
	KFNF 890 500 Shenandoah, Iowa		KGEZ 1310 100		KHQ 590 1000
	KFOR 1210 100	-	Kalispell, Mont.		Spokane, Wash.
	Lincoln, Neb.		KGFF 1420 100	ļ	KHSL 1260 250
	KFOX 1250 1000		Shawnee, Okla. KGFI 1500 100	<u> </u>	Chico, Calif. KHUB 1310 250
	Long Beach, Calif. KFPL 1310 100		Brownsville, Tex.		Watsonville, Calif.
	Dublin, Texas		KGFI 1200 100		KICA 1370 100
	KFPW 1210 100		Los Angeles, Calif. KGFL 1370 100		Clovis, N. M. KID 1320 500
	Fort Smith, Ark.		Roswell N Mer		KID 1320 500 Idaha Fails, Idaho
	KFPY 890 1000 Spokane, Wash,		KGFW 1310 100		KIDO 1350 1000
	KFQD 780 250	-	Kearney, Neb.		Boise, Idaho
	Anchorage, Alaska		KGFX 630 200		KIDW 1420 100 Lamar, Colo.
	KFRC 610 1000		KGFX 630 200 Pierre, S. D. KGGC 1420 100		KIEM 1450 500
-	San Francisco, Calif. KFRO 1370 250		Joan Francisco, Calif		Eureka, Calif.
	KFRO 1370 250 Longview, Texas		KGGF 1010 1000		KIEV 850 250
	KFRU 630 500		Coffeyville, Kans. KGGM 1230 1000		Glendale, Calif. KINY 1310 100
	Columbia, Mo.		Albuquerque, N. M.		KINY 1310 100 Juneau, Alaska
	KFSD 600 1000 San Diego, Calif.		KGHF 1320 500		KIRO 710 1000
-	KFSG 1120 500		Pueblo, Colo.		Seattle, Wash.
1	Los Angeles, Calif.		KGHI 1200 100 Little Rock, Ark.		KIT 1250 250 Yakima, Wash.
	KFUO 550 500	-	KGHL 780 1000	——-	KITE 1530 1000
	St. Louis, Mo. KFVD 1000 1000		Billings, Mont.		Kansas City, Mo.
	Los Angeles, Calif.		KGIR 1340 1000		KIUL 1210 100
	KEVS 1210 100		Butte, Mont. KGIW 1420 100		Garden City, Kans. KIUN 1420 100
	Cape Girardeau, Mo.	1	Alamosa Colo		Pecos, Texas
	KFWB 950 1000 Hollywood, Calif.		KGKB 1500 100		KIUP 1370 100
-	KFXD 1200 100		Tyler, Texas		Durango, Colo.
	Nampa, Idaho		KGKL 1370 100 San Angelo, Texas		KJBS 1070 500 San Francisco, Calif.
	KFXJ 1200 100 Grand Junction, Colo.		KGKO 570 1000		KJR 970 5000
			Fort Worth, Texas		Seattle, Wash.
	KFXM 1210 100		KGKY 1500 100		KLAH 1210 100
	San Bernardino, Calif. KFYO 1310 100		Scottsbluff, Neb.		Carlsbad, N. Mex.
	Lubbock, Texas		KGLO 1210 100		KLBM 1420 100
	·		Mason City, Iowa		La Grande, Ore.

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	KLCN 1290 100		KOMA 1480 5000		KRMD 1310 100
1 1	Blytheville, Ark.		Oklahoma City, Okla.		Shreveport, La.
	KLO 1400 500	-	KOMO 920 1000		KRNR 1500 100
1	Ogden, Utah	1 1	Seattle, Wash.		Roseburg, Ore.
	KT.PM 1240 250		KONO 1370 100		KRNT 1320 1000
1		1	San Antonio, Texas		Des Moines, Iowa
	Minot, N. D.				KROC 1310 100
	KLRA 1390 1000	i I	KOOS 1200 100	i	
	Little Rock, Ark.		Marshfield, Ore.		Rochester, Minn.
	KLS 1280 250		KORE 1420 100	ĺ	KROD 1500 100
	Oakland, Calif.		Eugene, Ore.		El Paso, Texas
	KLUF 1370 100		KOTN 1500 100	1 1	KROW 930 1000
1 1	Galveston, Texas		Pine Bluff, Ark.		Oakland, Calif.
	KLX 880 1000		KOVC 1500 100	_	KROY 1210 100
	Oakland, Calif.		Valley City, N. Dak.		Sacramento, Calif.
	KLZ 560 1000		KOY 1390 1000		KRQA 1310 100
1 1	IZ EZ		Phoenix, Ariz.		Santa Fe, N. Mex.
-	Denver, Colo.		VDAR 1500 100		KRRV 1310 250
1 1			Laredo, Texas		Sherman, Texas
	Shenandoah, Iowa KMAC 1370 100		KPAC 1260 500		KRSC 1120 250
1 1			Port Arthur, Texas		Seattle, Wash.
\vdash	San Antonio, Texas		PORT ATTIMIT, TEXAS		KSAC 580 500
1	KMBC 950 1000		KPDN 1310 100 Pampa, Texas		
	Kansas City, Mo.		Pampa, Texas	-	Manhattan, Kans.
	KMED 1410 250		KPFA 1210 100 Helena, Mont.		KSAM 1500 100
	Medford, Ore.		Helena, Mont.	——	Hunsville, Texas
	12 M I 580 1000		KPLC 1500 100		KSAL 1500 100
	Fresno. Calif.		Lake Charles, La.		Salina, Kans.
	KMI.B 1200 100		KPLT 1500 250 Paris, Texas	1	KSCJ 1330 1009
	KMLB 1200 100 Monroe, La.		Paris, Texas		Sioux City, Iowa
	17 M M M M M M M M M M M M M M M M M M M		KPMC 1550 1000		KSD 550 1000
	Clay Center, Neb.		Bakersfield, Calif.		St. Louis, Mo.
	12 M ∩ 1330 1000		KPO 680 50000	1 1	KSEI 900 250
11 1	Tacoma, Wash. KMOX 1090 50000		San Francisco, Calif.		Pocatello, Idano
	KMOX 1090 50000		KPOF 880 1000	1	KSFO 560 1000
1	St. Louis, Mo.	1	Denver, Colo.		San Francisco, Calif.
	KMPC 710 500		KPPC 1210 100	1 1	KSL 1130 50000
.1 3	Beverly Hills, Calif.		Pasadena, Calif.		Salt Lake City, Utah
-	KMTR 570 1000		KPO 1500 100		KSLM 1370 100
1 1	Los Angeles, Calif.		Wenatchee, Wash.		Salem, Ore.
	KNEL 1500 250		KPRC 920 1000		KSO 1430 500
	KNEL 1500 250		Houston, Texas		Des Moines, Iowa
	Brady, Texas KNET 1420 100		KOV 1380 500		KSOO 1110 5000
	KNEI 1420 100		Pittsburgh, Pa.		Sioux Falls, S. Dak.
-	Palestine, Texas		KQW 1010 1000		KSRO 1310 100
		1	San Jose, Calif.		Santa Rosa, Calif.
	Austin, Texas KNX 1050 50000		KRBA 1310 100		KSTP 1460 10000
11 1		1	Lufkin, Texas	1	St. Paul, Minn.
	Los Angeles. Cant		KRBC 1420 100		KCIIR (310 100
	KOA 830 50000		Abilene, Texas KRBM 1420 100		Cedar City, Utah
	Denver, Colo.		KRBM 1420 100		KSUN 1200 100
1	KOAC 550 1000	1	Bozeman, Mont.		Lowell, Ariz.
	Corvallis, Ore. KOAM 790 1000		KRE 1370 100		KTAR 620 1000
			Berkeley, Calif.		Phoenix, Ariz.
	Pittsburg, Kans. KOB 1180 10000		KRGV 1260 1000		KTAT 1240 1000
	KOB 1180 10000		Weslaco, Texas		Fort Worth, Texas
-	Albuquer que, N. M.		KRIC 1420 100		KTBC 1120 1000
	KOBH 1370 100		Beaumont, Texas		Austin, Texas
	Rapid City, S. Dak.		KRIS 1330 500		KTBS 1450 1000
1	KOCA 1210 100	1	Corpus Christi, Tex.		Shreveport, La.
	Kilgora, Texas KOCY 1310 100		KRKD 1120 500		KTEM 1370 250
	KOCY 1310 100		Los Angeles, Calif.		Temple, Texas
	Oklahoma City, Okla.		KRKO 1370 50		KTFI 1240 1000
	KOH 1380 500		KRKO 1370 50 Everett, Wash.		Twin Falls, Idaho
	Reno, Nev.		Everett, wasn.	-	
	KOIL 1260 1000		KRLC 1390 250		KTFL 1310 250
	Omaha, Neb.		Lewiston, Idaho		Tulsa, Okla.
	KOIN 940 1000		KRLD 1040 10000		KTHS 1060 10000
	Portland, Ore.		Dallas, Texas	_	Hot Springs, Ark.
	KOKO 1370 100		KRLH 1420 100		KTKC 1190 250
	La Junta, Colo.		Midland, Texas		Visalia, Calif.
	KOL 1270 1000		KRMC 1370 100		KTMS 1220 500
	I C 1 11/1-		Jamestown, N. Dak.		Santa Barbara, Calif.
1	Seattle, Wash.				
—	Seattle, Wasn.] *		

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	KTOK 1370 100		KWJJ 1040 500		WAAT 940 500
	Oklahoma City, Okla.	1	Portland, Ore.	ì	Jersey City, N. J.
		-	KWK 1350 1000		WAAW 660 500
1	KTRB 740 250	a			Omaha, Neb.
	Modesto, Calif.	!	St. Louis, Mo.		
	KTRH 1290 1000	1	KWKH 1100 10000		WABC 860 50000
	Houston, Texas	1	Shreveport, La.		New York, N. Y.
	KTRI 1420 100		KWLC 1270 100		WABI 1200 100
1		1	Decorah, Iowa	1	Bangor Maine
 	Sioux City, Iowa				Bangor, Maine WABY 1370 100
1	KTSA 550 1000		KWLK 780 250		WAD 1 1370 100
L	San Antonio, Texas		Longview, Wash.		Albany, N. Y.
	KTSM 1310 100		KWNO 1200 250		WACO 1420 100
1	El Paso, Texas		Winona, Minn.		Waco, Texas
	KTUL 1400 1000		WWOC 1210 100		WADC 1320 1000
1	KIUL 1400 1000	1	KWOC 1310 100		Akron, Ohio
-	Tulsa, Okla.		Poplar Bluff, Mo.		
ı	KTW 1220 1000	i	KWOS 1310 100		WAGA 1450 500
	Seattle, Wash.	L	Jefferson City, Mo.		Atlanta, Ga. WAGF 1370 250 Dothan, Ala.
1	KUI 1370 100	1	KWSC 1220 1000	1	WAGF 1370 250
1	Walla Walla, Wash.		Pullman, Wash.	1	Dothan, Ala.
	KUMA 1420 100		KWTO 560 5000		WAGM 1420 100
1		i			Presque Isle, Me.
	Yuma, Ariz.		Springfield, Mo.		WAIM 1200 100
i	KUOA 1260 5000	1	KWYO 1370 100		
	Siloam Springs, Ark.	<u> </u>	Sheridan, Wyo.		Anderson, S. C.
1	KUSD 890 500		KXA 760 250		WAIR 1250 250
	Vermillion, S. Dak.	1	Seattle, Wash.		Winston-Salem, N. C.
	KUTA 1500 100		KXL 1420 100		WALA 1380 500
	Salt Lake City, Utah		Portland, Ore.		Mobile, Ala.
	KVAK 1420 100	····	KXO 1500 100		WALR 1210 100
					Zanesville, Ohio
	Atchison, Kans.	-	El Centro, Calif.		
	KVCV 1200 100		KXOK 1250 1000		
	Redding, Calif.		St. Louis, Mo.		Laurel, Miss.
	KVEC 1200 100		KXRO 1310 100		WAPI 1140 5000
1	San Luis Obispo, Cal.	i	Aberdeen, Wash.		Birmingham. Ala.
	KVGB 1370 100		KXYZ 1440 1000		WAPO 1420 100
1	Great Bend, Kans.	l	Houston, Texas		Chattanooga, Tenn.
	KVI 570 1000		KYA 1230 1000	-	WARD 1400 500
	Tacoma, Wash.	1	San Francisco, Calif.		Brooklyn, N. Y.
1	KVIC 1310 100				WASH 1270 500
	KVIC 1310 100		KYCA 1500 100		
	Victoria, Texas		Prescott, Ariz.	3	Grand Rapids, Mich.
	I K V N D 1500 100	1	KYOS 1040 250		WATL 1370 100
	Logan, Utah		Merced, Calif. KYSM 1500 100		Atlanta, G a,
	KVOA 1260 1000 Tucson, Ariz.		KYSM 1500 100		WATR 1190 100
1	Tucson, Ariz.	i	Mankato, Minn.	1	Waterbury, Conn.
	KVOD 920 500		KYW 1020 10000		WAVE 940 1000
1	Denver Colo	i	Philadelphia, Pa.		Louisville, Ky.
<u> </u>	Denver, Colo. KVOE 1500 100	-			WAWZ 1350 500
1		1			7
	Santa Ana, Calif.		Quezaltenango, Guat.		Zarephath, N. J.
1	KVOL 1310 100	1	TGW 1520 1000		WAYX 1200 100
1	Lafayette, La.		Guatemala City, Guat.		Wayeross, Ga.
	KVOO 1140 25000		TGX 1400		WAZL 1420 100
1	Tulsa, Okla.		Guatemala City, Guat.		Hazelton, Pa.
	KVOR 1270 1000		TG1 1305		WBAA 890 500
1	Colo. Springs, Colo.		Guatemala City, Guat.		West Lafavette, Ind.
	KVOS 1200 100		TIX 650 1000		WBAL 760 2500
	Bellingham, Wash.				Baltimore, Md.
\vdash	KVOX 1310 100		San Jose, Costa Rica		
	Moorhead, Minn,		VAS 685 2000		WBAL 1060 10000
			Glace Bay, N.S.		Raltimore, Md.
			VOAC 1065 40		WBAP 800 50000
1	Rock Springs, Wyo.	1	St. John's Nfld.	1	Fort Worth, Texas
	KVSO 1210 100		VOCM 1006 200		WBAX 1210 100
	Ardmore, Okla.		St. John's Nfld.	1	Wilkes-Barre, Pa.
1	KWBG 1420 100		VOGY 840 400	-	WBBC 1400 500
	Hutchinson, Kans.		St. John's Nfld.	i	Brooklyn, N. Y.
-	KWEW 1500 100		VONF 1195 500	1	WBBL 1210 100
1				T .	
1		1	CA Tabara NYCO		
<u></u>	Hobbs, N. Mex.		St. John's Nfld.		Richmond, Va.
	Hobbs, N. Mex. KWFT 620 250		VOWR 681 500		WBBM 770 50000
	Hobbs, N. Mex. KWFT 620 250 Wichita Falls, Texas		VOWR 681 500 St. John's Nfld.		WBBM 770 50000 Chicago, Ill.
	Hohbs. N. Mex. KWFT 620 250 Wichita Falls, Texas KWG 1200 100		VOWR 681 500 St. John's Nfld.		WBBM 770 50000
	Hohhs. N. Mex. KWFT 620 250 Wichita Falls, Texas KWG 1200 100 Stockton, Calif.		VOWR 681 500 St. John's Nfld. WAAB 1410 500		WBBM 770 50000 Chicago, Ill. WBBR 1300 1000
	Hobbs. N. Mex. KWFT 620 250 Wichita Falls, Texas KWG 1200 100 Stockton, Calif. KWJB 1210 100		VOWR 681 500 St. John's Nfld. WAAB 1410 500 Boston, Mass.		WBBM 770 50000 Chicago, Ill. WBBR 1300 1000 Brooklyn, N. Y.
	Hohhs. N. Mex. KWFT 620 250 Wichita Falls, Texas KWG 1200 100 Stockton, Calif.		VOWR 681 500 St. John's Nfld. WAAB 1410 500 Boston, Mass. WAAF 920 1000		WBBM 770 50000 Chicago, III. WBBR 1300 1000 Brooklyn, N. Y. WBBZ 1200 100
	Hobbs. N. Mex. KWFT 620 250 Wichita Falls, Texas KWG 1200 100 Stockton, Calif. KWJB 1210 100		VOWR 681 500 St. John's Nfld. WAAB 1410 500 Boston, Mass.		WBBM 770 50000 Chicago, Ill. WBBR 1300 1000 Brooklyn, N. Y.
	Hobbs. N. Mex. KWFT 620 250 Wichita Falls, Texas KWG 1200 100 Stockton, Calif. KWJB 1210 100		VOWR 681 500 St. John's Nfld. WAAB 1410 500 Boston, Mass. WAAF 920 1000		WBBM 770 50000 Chicago, III. WBBR 1300 1000 Brooklyn, N. Y. WBBZ 1200 100

	WBCM 1410 500		WCBM 1370 100		WDRC 1330 1000
	Bay City, Mich.		Baltimore, Md.		Hartford, Conn.
	WBEN 900 1000		WCBS 1420 100		WDSM 1200 100
-	Buffalo, N. Y. WBEO 1310 100		Springfield, Ill.		Superior, Wis.
1	WBEO 1310 100 Marquette, Mich.	1	WCCO 810 50000 Minneapolis, Minn.		WDSU 1250 1000 New Orleans, La.
	WBHP 1200 100		WCFL 970 5000	_	WDWS 1370 100
	Huntsville, Ala.		Chicago, Ill.		Champaign, Ill.
	WBIG 1440 1000		WCHS 580 500		WDZ 1020 250
	Greensboro, N. C.	ļ	Charleston, W. Va.		Tuscola, Ill.
	WBIL 1100 5000	1	WCHV 1420 100	1	WEAF 660 50000
-	New York, N. Y.	_	Charlottesville, Va.		New York, N. Y.
	WBLK 1370 100 Clarksburg, W. Va.		WCKY 1490 10000 Covington. Ky.		WEAN 780 1000
	WBLY 1210 100		WCLE 610 500		Providence, R. I. WEAU 1050 1000
	Lima, Ohio		Cleveland. Ohio		Eau Claire, Wis.
	WBNO 1200 100		WCLO 1200 100		WEBC 1290 1000
	New Orleans, La.		Janesville, Wis.	_	Duluth, Minn,
1	WBNS 1430 1000	1	WCLS 1310 100 Toliet. Ill.	1	WEBO 1210 100
	Columbus, Ohio WBNX 1350 1000		WCMI 1310 100		Harrishurg, Ill. WEBR 1310 100
	New York, N. Y.		Ashland, Kv.		Buffalo, N. Y.
	WBNY 1370 100		WCNW 1500 100		WEDC 1210 100
	Buffalo, N. Y.		Brooklyn, N. Y.		Chicago, Ill.
1.	WBOQ 860 50000	1	WCOA 1340 500 Pensacola, Fla.		WFED 1420 100
-	New York, N. Y. WBOW 1310 100	-	WCOC 880 1000	-	Rocky Mount, N. C. WEEI 590 1000
	Terre Haute, Ind.		Meridien, Miss.		WEEI 590 1000 Boston, Mass.
	WBRB 1210 100		WCOL 1210 100		WEEU 830 1000
	Red Bank, N. I.		Columbus, Ohio		Reading, Pa.
	WBRC 930 1000		WCOP 1120 500		WELT 900 500
-	Birmingham, Ala. WBRE 1310 100		Boston, Mass. WCOU 1210 100		New Haven, Conn.
	WBRE 1310 100 Wilkes-Barre, Pa.		Lewiston. Maine		WELL 1420 100 Battle Creek, Mich.
	WBRK 1310 100		WCOV 1210 100		WEMP 1310 100
	Pittsfield, Mass.		Montgomery: Ala,		Milwaukee, Wis.
	WBRY 1530 1000		WCPO 1200 100		WENR 870 50000
-	Waterbury, Conn. WBT 1080 50000		Cincinnati, Ohio WCRW 1210 100		Chicago, Ill.
	WBT 1080 50000 Charlotte, N. C.		Chicago, Ill.		WENY 1200 250 Elmira, N. Y.
	WBTM 1370 100		WCSC 1360 500		WEOA 1370 100
	Danville, Va.	L	Charleston, S. C.		Evansville, Ind.
	WBZ 990 50000	1	WCSH 940 1000 Portland, Me.		WESG 850 1000
-	Boston, Mass. WBZA 990 1000	\vdash —	WDAE 1220 1000	_	Elmira, N. Y. WEST 1200 100
	Springfield, Mass.	1	Tampa. Fla.		WEST 1200 100 Easton, Pa.
	WCAD 1220 500		WDAF 610 1000		WEVD 1300 1000
	WCAD 1220 500 Canton, N. Y.		Kansas City, Mo.	-	New York, N. Y.
	WCAE 1220 1000		WDAH 1310 100 El Paso, Texas		WEW 760 1000
	Pittsburgh, Pa. WCAL 760 1000	-	WDAN 1500 250		St. Louis, Mo. WEXL 1310 50
	WCAL 760 1000 Northfield. Minn.		Danville, Ill.		WEXL 1310 50 Royal Ooak, Mich.
	WCAM 1280 500		WDAS 1370 100		WFAA 800 50000
	Camden, N. J.		Philadelphia, Pa.		Dallas, Texas
	WCAO 600 500		WDAY 940 1000		WFAB 1300 1000
	Baltimore, Md.		Fargo. N. Dak. WDBI 930 1000		New York, N. Y. WFAM 1200 100
	WCAP 1280 500 Asbury Park, N. J.	1	Roanoke, Va.		South Bend. Ind.
	WCAT 1200 100		WDBO 580 1000		WFAS 1210 100
	Rapid City, S. Dak.		Orlando, Fla.		White Plains, N. Y.
	WCAU 1170 50000		WDEL 1120 250		WFBC 1300 1000
	Philadelphia, Pa.		Wilmington. Del.		Greenville, S. C.
	WCAX 1200 100		WDEV 550 500		WFBG 1310 100 Altoona, Pa.
_	Burlington, Vt. WCAZ 1070 100		Waterbury, Vt. WDGY 1180 1000		WFBL 1360 1000
	Carthage, Ill.		Minneapolis, Minn.		Syracuse, N. Y.
	WCBA 1440 500		WDNC 1500 100		WFBM 1230 1000
	Allentown, Pa.		Durham, N. C.		Indianapolis, Ind.
	WCBD 1080 5000	-	WDOD 1280 1000		WFBR 1270 50%
-	Chicago, Ill.		Chattanooga, Tenn.		Baltimore, Md.

		SICION	N B. C. SIAIION	3 D I	
	WFDF 1310 100		WHAM 1150 50000		WIBM 1370 100
	Flint, Mich.		Rochester, N. Y.	<u> </u>	_ Jackson, Mich.
1	WFEA 1340 500		WHAS 820 50000	1	WIBU 1210 100
	Manchester, N. H. WFIL 560 1000		Louisville, Ky. WHAT 1310 100	<u> </u>	Poynette, Wis. WIBW 580 1000
	Philadelphia, Pa.		Phitadelphia, Pa.		WIBW 580 1000 Topeka, Kans.
	WFLA 620 1000	-	WHAZ 1300 1000		WIBX 1200 100
	Tampa, Fla.		Troy, N. Y.	1	Utica, N. Y.
	WFMD 900 500		WHB 860 1000		WICA 940 250
	Frederick, Md.		Kansas City, Mo.	L	Ashtabula, Ohio
	WFMJ 1420 100	1	WHBB 1500 100		WICC 600 500
-	Youngstown, Ohio		Selma, Ala.	<u> </u>	Bridgeport, Conn.
	WFOR 1370 100 Hattiesburg, Miss.		Selma, Ala. WHBC 1200 100 Canton, Ohio	ì	WIL 1200 100
	WFOY 1210 100		WHBF 1210 100	⊢—	St. Louis, Mo. WILL 580 1000
	St Augustine Fla	1	WHBF 1210 100 Rock Island, Ill.		WILL 580 1000 Urbana, Ill.
	WFTC 1200 100 Kinston, N. C.		WHBI 1250 1000	—	WILM 1420 100
	Kinston, N. C.		Newark, N. J.	l.	Wilmington, Del.
	WGAL 1500 100		WHBL 1300 250		WIND 560 1000
-	Lancaster, Pa.		Sheboygan, Wis.	<u> </u>	Gary, Ind.
	WGAN 640 500		WHBQ 1370 100		WINS 1180 1000
_	Portland, Me. WGAR 1450 500		Memphis, Tenn.		New York, N. Y.
	Cleveland, Ohio		WHBU 1210 100 Anderson, Ind.	ľ	WIOD 610 1000 Miami, Fla,
	WGAU 1310 100		WHBY 1200 100		WIP 610 1000
	Athens, Ga. WGBB 1210 100		Green Bay, Wis.		Philadelphia, Pa.
	WGBB 1210 100		WHDF 1370 100		WIRE 1400 1000
	Freeport, N. Y.		Calumet, Mich.		Indianapolis, Ind.
1	WGBF 630 500 Evansville, Ind.		WHDH 830 1000		WIS . 560 1000
_	WGBI 880 500		Boston, Mass. WHDL 1400 250		Columbia, S. C.
1	Scranton, Pa.		Olean, N. Y.		WISN 1120 250 Milwaukee, Wis.
	WGCM 1210 100		WHEB 740 250		I WIAC 1310 100
	Gulfport, Miss.		Portsmouth, N. H.		ohnstown, Pa.
	WGES 1360 500		WHEC 1430 500	ì) WIAG 1060 1000
-	Chicago, Ill. WGH 1310 100	-	Rochester, N. Y.	ļ	Norfolk, Neh.
	Newport News, Va.		WHEF 1500 100 Kosciusko, Miss.		WJAR 890 1000 Providence, R. I.
	WGIL 1500 250		WHFC 1420 100		WJAS 1290 1000
	Galesburg, Ill.		Cicero, Ill.		Pittshurgh, Pa.
	WGL 1370 100		WHIO 1260 1000		J W J A X 900 1000
	Fort Wayne, Ind. WGN 720 50000		Dayton, Ohio WHIP 1480 5000		Jacksonville, Fla.
1	Chicago, Ill.		WHIP 1480 5000		WJBC 1200 100
	WGNY 1210 100		Hammond, Ind. WHIS 1410 500		Bloomington, III. WJBK 1500 100
	Newhurgh, N. Y.		Bluefield, W. Va.		WJBK 1500 100 Detroit, Mich.
	WGPC 1420 100		WHJB 620 250		WIBL 1200 100
	Albany, Ga. WGR 550 1000		Greensburg, Pa.		Decatur, III.
	WGR 550 1000 Buffalo, N. Y.		WHK 1390 1000		WJBO_1120 500
	WGRC 1370 250		Cleveland, Ohio WHKC 640 500		Baton Rouge, La.
	New Albany, Ind.		WHKC 640 500 Columbus, Ohio		WJBW 1200 100 New Orleans, La.
	WGRM 1210 100		WHKV 1500 100		WJBY 1210 100
	Grenada, Miss.		Charleston, W. Va.		Gadsden, Ala.
	WGST 890 1000		WHLB 1370 100		WJDX 1270 1000
	Atlanta, Ga. WGTM 1310 100		Virginia, Minn.		Tackson, Miss.
1	Wilson, N. C.		WHLS 1370 250 Port Huron, Mich.		WJEJ 1210 100
	WGVA 1050 1000		WHN 1010 1000		Hagerstown, Md. WJIM 1210 100
1	Indianapolis, Ind.		New York, N. Y.		WJIM 1210 100 Lansing, Mich.
	WGY 790 50000		WHO 1000 50000		WJJD 1130 20000
	Schenectady, N. Y.		Des Moines, Iowa		Chicago, Ill,
	WHA 940 5000		WHOM 1450 250		WJMC 1210 250
-	Madison, Wis. WHAI 1210 250		Jersey City, N. J.		Rice Lake. Wis.
	Greenfield, Mass.		WHP 1430 500 Harrisburg, Pa.		WJMS 1420 100
	WHAL 950 500		WIBA 1280 1000		Tronwood, Mich. WJNO 1200 100
	Saginaw, Mich.		Madison, Wis.		W. Palm Beach, Fla
			WIBG 970 100	4	2.00.000, 2.160
			Glenside, Pa.		
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	NORTH AME	KIÇAN	B. C. STATIONS	DI C	REEG
	WIR 750 50000 [WLNH 1310 100 [WNAD 1010 1000
	Detroit, Mich.		Laconia, N. H.		Norman, Okla.
	WJRD 1200 250		WLS 870 50000	- 1	WNAX 570 1000
	Tuscaloosa, Ala.		Chicago, Ill.		Yankton, S. D.
	WJSV 1460 10000		WLTH 1400 500		WNBC 1380 250
	Washington, D. C.		Brooklyn, N. Y. 100		New Britain, Conn. WNBF 1500 100
	WJTN 1210 100				Binghamton, N. Y.
	Jamestown, N. Y. WIW 1210 100	-	Lynchburg, Va. WLW 700 500000		WNBH 1310 100
	WJW 1210 100 Akron, Ohio	1	Cincinnati, Ohio		New Bedford, Mass.
	WIZ 760 50000		W/MAI, 630 250		WNBX 1260 500
	New York, N. Y.		Washington, D. C.		Springfield, Vt.
	WKAO 1240 1000		WMAQ 670 50000 Chicago, Ill.		WNBZ 1290 100
	San Juan, P. R.		Chicago, 111.		Saranac Lake, N. Y. WNEL 1290 1000
1 1	WKAR 850 1000 East Lansing, Mich.		WMAS 1420		San Juan, P. R.
	WKAT 1500 100		Springfield, Mass. WMAZ 1180 1000		WNEW 1250 1000
	WKAT 1500 100 Miami Beach, Fla. WKBB 1500 100				New York, N. Y.
	WKBB 1500 100		Macon, Ga. WMBC 1420 100		WNLC 1500 100
	East Dubuque, Ill.		Detroit, Mich.		New London, Conn. WNOX 1010 1000
	WKBH 1380 1000		WMBD 1440 1000		
	LaCrosse, Wis. WKBN 570 500		Peoria, Ill. WMBF 610 1000		Knoxville, Tenn. WNYC 810 1000
	Youngstown, Ohio		WMBF 610 1000 Miami, Fla.		New York, N. Y.
	WKBO 1200 100		WMBG 1350 500		WOAT 1100 50000
	Harrisburg, Pa.		Richmond, Va.		San Antonio, Texas
	WKBV 1500 100		WMBH 1420 100		WOC 1370 100
	Richmond, Ind. WKBW 1480 5000		Joplin, Mo. WMBI 1080 5000		Davenport, Towa WOCB 1210 100
	Ruffalo N V		Chicago, Ill.		Cape Cod, Mass.
-	Buffalo. N. Y. WKBZ 1500 100		WMBO 1310 100		₩OT 640 5000
1	Muskegon, Mich		Auburn, N. Y.		Ames, Iowa
	WKEU 1500 100		1 XXXXX R R 13/U 100 I		WOKO 1430 300
	WKEU 1500 100 Griffin. Ga. WKOK 1210 100		Jacksonville, Fla.		Albany, N. Y. WOL 1310 1000
	Sunbury, Pa.		WMBS 1420 250		WOL 1310 1000 Washington, D. C.
—	WKRC 550 1000		Uniontown, Pa. WMC 780 1000		WOLS 1200 100
	Cincinnati, Ohio		Memphis, Tenn.		Florence, S. C.
	WKST 1250 250		WMCA 570 1000		WOMI 1500 100
	New Castle, Pa. WKY 900 1000		New York, N. 1		Owensboro, Ky. WOMT 1210 100
	Oklahoma City, Okla.		WMEX 1500 100		Manitowor, Wis.
	WKZO 590 1000		Boston, Mass. WMFD 1370 100		Manitowoc, Wis. WOOD 1270 500
	Kalamazoo. Mich.		Wilmington, N. C.		Grand Rapids, Mich.
	WLAC 1470 5000		I WMFF 1310 100		WOPI 1500 100 Bristol, Tenn.
	Nashville, Tenn.		Plattsburg, N. Y.		Bristol, Tenn.
	WLAK 1310 100 Lakeland, Fla.		WMFG 1210 100		WOR 710 50000
	WLAP 1420 100	-	Hibbing, Minn.	-	Newark, N. J. WORC 1280 500
	Lexington, Ky.		WMFJ 1420 100 Dayton Beach, Fla.		Worcester, Mass.
	WLAW 680 1000		WMFO 1370 100		WORK 1320 1000
	Lawrence, Mass.		Decatur, Ala.		York, Pa.
	WLB 760 1000 Minneapolis, Minn.		1 XX M FR 1200 100		WORL 920 500 Boston, Mass.
	WLBC 1310 100		High Point, N. C. WMIN 1370 100		WOSU 570 750
	Muncie, Ind.		St Paul. Minn.		Columbus, Ohio
	WLBL 900 5000		WMMN 890 500		WOV 1130 1000
	Stevens Point, Wis.		The immediate W/ Va		New York, N. Y. WOW 590 1000
	WLBZ 620 500 Bangor, Me.		WMPC 1200 100 Lapeer, Mich. WMPS 1430 500		WOW 590 1000 Omaha, Neb.
	WLEU 1420 100		Lapeer, Mich.		1 wowo 1160 10000
	Erie, Pa.		Memphis, Jenn.		Fort Wayne, Ind.
	WLLH 1370 100		WMSD 1420 100		WPAD 1420 100
	Lawrence, Mass.		Sheffield, Ala.		Paducah, Ky.
	WLLH 1370 100		I WMT 600 1000		WPAR 1420 100 Parkersburg, W. Va.
	Lowell, Mass.		Cedar Rapids, Iowa		WPAX 1210 100
			WNAC 1230 1000 Boston, Mass.		Thomasville, Ga.
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	111D h 17 1000 100		WSAN 1440 500		WTAR 780 1000
1	WPAY 1370 100	1		1 1	Norfolk, Va.
	Portsmouth, Ohio		Allentown, Pa.	-	
f	WPEN 920 1000		WSAR 1450 1000	1	WTAW 1120 500
	Philadelphia, Pa.		Fall River, Mass.		College Station, Tex.
l .	WPG 1100 5000	1 1	WSAU 1370 100		WTAX 1210 100
1	Atlantic City, N. J.	$\overline{}$	Wausau, Wis.		Springfield, Ill.
	WPIC 780 250		WSAV 1310 100		WTBO 800 250
	Sharon, Pa.		savannah, Ga.	$\overline{}$	Cumberland, Md.
	WPRA 1370 100	[WSAY 1210 100	1 1	WTCN 1250 1000
	Mayaguez, P. R.		Rochester, N. Y.		Minneapolis. Minn.
	WPRO 630 500	1 1	WSAZ 1190 1000		WTEL 1310 100
1 .	Providence, R. I.		Huntington, W. Va.		Philadelphia, Pa.
	WPRP_1420 100		WSB 740 50000		WTHT 1200 100
1	Ponce, P. R.		Atlanta, Ga.		Hartford, Conn.
	WPTF 680 5000		WSBC 1210 100	1	WTIC 1040 50000
1	Raleigh, N. C.		Chicago, Ill.		Hartford, Conn.
	WQAM 560 1000		WSBT 1360 500		WTJS 1310 100
1	Miami, Fla.		South Bend, Ind.		Jackson, Tenn.
	WQAN 880 500		WSFA 1410 500	1 1	WTMJ 620 1000
	Scranton, Pa.	\square	Montgomery, Ala.		Milwaukee, Wis.
	WQBC 1360 1000		WSGN 1310 100		WTMV 1500 100
	Vicksburg, Miss.		Birmingham, Ala.		East St. Louis, Ill.
	WQDM 1390 1000		WSIX 1210 100		WTNJ 1280 500
	St. Albans, Vt.		Nashville, Tenn.		Trenton, N. J.
	WQXR 1550 1000		WSJS 1310 100		WTOC 1260 1000
	New York, N. Y.		Winston-Salem, N. C.		Savannah, Ga.
	WRAK 1370 100		WSLI 1420 100		WTOL 1200 100
1	Williamsport, Pa.		Jackson, Miss.	-	Toledo, Ohio
	WRAW 1310 100	1	WSM 650 50000	1	WTRC 1310 100
1	Reading, Pa.		Nashville, Tenn.	-	Elkhart, Ind.
	WRAX 920 1000	1 1	WSMB 1320 1000	1	WVFW 1400 500
	Philadelphia, Pa.		New Orleans, La.		Brooklyn, N. Y.
	WRBL 1200 100	1 1	WSMK 1380 200		WWAE 1200 100
	Columbus, Ga. WRC 950 1000		Dayton, Ohio WSNI 1210 100		Hammond, Ind.
1	Washington, D. C.	1 1	WSNJ 1210 100 Bridgeton, N. J.	ì	WWJ 920 5000
ļi	WRDO 1370 100	\vdash		H	Detroit, Mich. WWL 850 10000
	Augusta, Me.		WSOC \210 100 Charlotte, N. C.		New Orleans, La.
	WRDW 1500 100	-	WSPA 920 1000		WWNC 570 1000
1	Augusta, Ga.	1 1	Spartanburg, S. C.		Asheville, N. C.
	WREC 600 1000	-	WSPD 1340 1000		WWRL 1500 100
	Memphis, Tenn.	1.	Toledo. Ohio		Woodside, N. Y.
	WREN 1220 1000		WSPR 1140 500		WWSW 1500 100
1	Lawrence, Kans.	1 1	Springfield, Mass.		Pittsburgh, Pa.
	WRGA 1500 100		WSU+ 880 500		WWVA 1160 5000
1	Rome, Ga. WRJN 1370 100		Iowa City, Iowa		Wheeling, W. Va.
	WRJN 1370 100		WSUN 620 1000		WXYZ 1240 1000
	Racine, Wis.		St. Petersburg, Fla.		Detroit. Mich.
	WRNL 880 500		WSVA 550 500		W3XDD 50000
1	Richmond, Va.		Harrisonburg, Va.		Whippany, N. J.
	WROK 1410 500		WSVS 1370 50		W3XJ 1060 100
	Rockford, Ill.		Buffalo, N. Y.		College Park, Md.
 	WROL 1310 100		WSYB 1500 100		XEAA 750 200
	Knoxville, Tenn.		Rutland, Vt.		Mexicali, B. C.
	WRR 1280 500		WSYR 570 1000		XEAC 980 1000
1	Dallas, Texas		Syracuse, N. Y.		_I Γiiuana, L. C.
	WRTD 1500 100		WSYU 570 1000		XEAF 990 750
	Richmond, Va.		Syracuse, N. Y.		Nogales, Son.
	WRUF 830 5000		WTAD 900 1000		XEAG 1310 10
L	Gainesville, Fla.		Quincy, Ill.		Cordoba, Ver.
	WRVA 1110 5000		WTAG 580 1000		XEAI 1250 500
	Richmond, Va.		Worcester, Mass.		Mexico City, D. F.
	WSAI 1330 1000		WTAL 1310 100		XEAL 660 1000
	Cincinnati, Ohio		Tallahassee, Fla.		Mexico City. D. F.
	WSAJ 1310 100 Grove City, Pa.		WTAM 1070 50000		XEAM 750 25
			Cleveland, Ohio	\vdash	Matamoros. Tams.
	WSAL 1200 250		WTAQ 1330 1000		XEAO 660 250
	Salisbury, Md.		Green Bay, Wis.	-	Mexicali, B. C.
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	XEAP 1340 50		XEF 1450 100		XEN 780 1000
	Obregon, Son.		Juarez, Chih.		Mexico City, D. F.
	XEAS 1160 100		XEFA 1180 500		XENC 860 50
	Saltillo, Coah.		Tacuba, D. F.		Mexico City, D. F.
	XEAT 1210 250		XEFB 870 200		XENT 910 150000
	XEAT 1210 250 Parral, Chih.	l .	Monterrrey, N. L.		Nuevo Laredo, Tams.
	XEAU 1320		XEFC 550 100		XEOJ
			Merida, Yuc.	1	AEOJ
	Tijuana, B. Cfa.	<u> </u>		_	XEOK 760 2500
	XEAW 960 100000 Reynosa, Tams.		XEFE 980 250	1	
	Reynosa, Jams.		Nuevo Laredo, Tams.		Tijuana, L. C.
	XEAZ 1230 200		XEFI 1440 250		XEP 1160 500
-	Zacatecas, Zac.	-	Chihuahua, Chih.		Juarez, Chih.
i	XEB 1030 10000		XEFM_1160 20	1	XEPN 730 100000
ļ	Mexico City, D. F.		Leon, Gto.		Piedras Negras, Coah.
	XEBA 1080 20	1	Leon, Gto. XEFO 940 5000 Mexico City, D. F.	1	XERA 840 250000
	Guzman, Jal.		Mexico City, D. F.		Villa Acuna, Coah.
	XEBG 820 1000 Tijuana, B. Cfa.	1	XEFQ 1010 50		XERB 730 100000
	Tijuana, B. Cfa.		Cananea, Son.		Rosarito Beach, B. Cfa.
Į	XEBH 930 500	1	XEFV 1210 100 Juarez, Chih. XEFW 1310 300		XES 990 250 Tampico, Tams.
	Hermosillo, Sonora		Juarez, Chih.		Tampico, Tams
	XEBI 1000 25		XEFW 1310 300		XET 690 5000
	Aguascalientes, Ags.		Tampico, Tams.		Monterrey, N. L.
	XEBK 1080 100		XEG 1230 250		
	Neuvo Laredo, Tams.		Monterrey, N. L.		
	XEBL 1220 50		XEH 720 250		Torreon, Coah.
	Mazatlan, Sin.		Monterrey, N. L.		XETH 1210 100
	XEBO 1310 25		XEI 1370 125		Puebla, Pue.
	Irapuato, Guan.		XEI 1370 125 Morelia, Mich.		XEU 1010 250
-	XEBP 1150 250		XET 1020 1000		Veracruz, Ver.
				1 .	XEW 890 50000
	Durango, Dgo. XEBS 1340 200		Juarez, Chih.		Mexico City, D. F.
	XEBS 1340 200 Mexico City, D. F. XEBU 1200 50	1	XEJP 1130 100		XEX 1310 125
	Mexico City, D. F.	<u> </u>	Mexico City, D. F.	-	Monterrey, N. L.
1	XEBU 1200 50		XEJW 870 500	1	XEXB 1270 250
	Chihuahua, Chih.		Mexico City, D. F.		Jalapa, Ver.
1	XEBX 640 250 Sabinas, Coah,	1 .	XEK 890 100		XEXD 1340 350
L	Sabinas, Coah.		Mexico City, D. F.		Jalapa, Ver.
	1 X E E Z 2 2 10 100		XEKL 1240 500		Jalapa, Ver. XEXE 1270 17
1	Mexico City, D. F.		Leon, Guan.	1	Texcoco, D. F.
	XEC 1150 100 Tijuana, L. C.		XEL 1100 250		XEXH 1250 250
i	Tijuana, L. C.	1	Mexico City, D. F.		San Luis Potosi, S. L. P.
	XECZ 1370 100		XELA 1240 50 Saltillo, Coah.		XEXM 610 500
	San Luis Potosi, S.L.P.	i l	Saltillo, Coah.		Mexico City, D. F.
	XED 1160 2500	-	I Y D I A E E E E E E E E E E E E E E E E E E		
ł	Guadalajara, Jal.	1	Tiinana R Cfa		
-	XEDA 1220 200		XELZ 1370 100		Mexico City, D. F. XEXX 1170 1000
Ì	Gral. Anaya, D. F.	1	Maxico City D E		XEXX 1170 1000
 	XEDF 810 100		XEME 1240 50	-	Mexico City, D. F.
	Nuevo Laredo, Tams.		XELZ 1370 100 Mexico City, D. F. XEME 1240 50 Merida, Yuc.		XEYO 610 500
			XEMO 860 5000	-	Mexico City, D. F.
	XEDH 1340 200	1	XEMO 860 5000 Tijuana, L. C.		XEZ 630 500
	Villa Acuna, Coah.		Upuana, L. C.		Merida, Yuc.
	XEDP 1080 500		XEMU 580 250		YSS 640 500
	Mexico City, D. F.		Piedras Negras, Coah.		San Salvador, E. S.
	XEDW 1150 20		XEMX 1280 100		ZNS 540 400°
	Minatitlan, Ver.		Mexico City, D. F.		Nassau, Bahamas
	XEE 1210 50				
	Durango, Dgo.				
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Broadcasting Stations of NORTH AMERICA

This supplementary call letter index began in the September, 1938 issue of RADEX, and will appear on these pages every month until completed

The abreviations used throughout this list are familiar to all our readers, except perhaps "CP" for Construction Permit, "LS" for Local Sunset, and "ss" for Sunset.

- KDTH, Dubuque, Iowa. Issues in Court of Appeals. Has CP for new station on 1340 kcs, 500 watts, daytime. Owner: Telegraph Herald Co.
- KDYL, Salt Lake City, Utah. i290 kcs, 1000 watts, Unltd. time. Red Network. Transmitter at 898 W. 33rd St. Aerial: 2 towers, 200 ft. Manager: S. S. Fox. Address: Intermountain Broadcasting Corp., Ezra Thompson Bldg. Has CP for 5 kilowatts days.
 KECA, Los Angeles, Calif. 1430 kcs, 1000 watts nights, 5 kilowatts days, unltd. time. Network: National Blue. Aerial: vertical, 365 ft. Transmitter: 1418 E. 81st St. Manager: Harrison

- National Blue. Aerial: vertical, 365 ft. Transmitter: 1418 E. 81st St. Manager: Harrison Holliway. Address: Earl C. Anthony, Inc., 1000 S. Hope St.

 KEEN, Seattle, Wash. 1370 kcs, 100 w., shares time with KRKO. Manager: Arthur C. Dailey. Address: KVL, Inc., 2101 Smith Tower.

 KEHE, Los Angeles, Calit., 780 kcs, 1000 watts nights, 5 kilowatts days, unltd. time. Transmitter: 2951 Moynier Lane. Aerial vertical, 485 ft. Manager: Jack Gross. Owner: Hearst Radio, Inc., 141 N. Vermont Ave.

 KELA, Centralia, Wash. 1440 kcs, 500 w., unltd. time. Network: Mutual. Aerial: vertical, 190 ft. Manager: J. Elroy McCaw. Address: Central Broadcasting Corp.

 KELD, El Dorado, Ark. 1370 kcs, 100 w., unltd. time. Transmitter: Country Club Colony. Aerial. vertical, 180 ft. Manager: F. E. Bolls. Address: Radio Enterprises, Inc., Exchange Bldg.

 KELO, Sioux Falls, S. Dak. 1200 kcs., 100 w. unltd. time. Network: National Red and Blue. Aerial: vertical, 234 ft. Manager: Joseph Henkin. Address: Sioux Falls Broadcast Association, Inc., 317 S. Phillips Ave.

- Bakersfield, Calif. 1370 ccs., 100 w. unltd. time. Network: National Red and Blue; California. Aerial: vertical, 251 ft. Manager: Robert Stoddard. Address: McClatchey Broad-
- casting Co., Elks Bldg. KEUB, Price, Utah. 1420 kcs., 100 w., unltd. time. Aerial vertical, 175 ft. Manager. Sam G. Weiss. Owner: Eastern Utah Broadcasting Co.
- Portland, Ore. 1180 kcs., 5000 w., shares at night with KOB. Network: National Blue. Transmitter: North Portland. Aerial: vertical, 300 ft. Manager: W. Carey Jennings. Owner: National Broadcasting Co., Inc. Licensee: Oregonian Publishing Co., Oregonian KEX, Bldg.
- Lincoln, Nebr. 770 kcs., 10,000 w. Transmits simultaneously days, synchronizes nights, with WBBM. Network: CBS. Transmitter: 17th and Holdrege St. Aerial: 2 towers, 100 ft. Permits: has CP to move to 1080 kcs., to use directional aerial at night, with 50 kilowatts KFAB, unltd. time. Manager: Reginald B. Martin. Address: KFAB Broadcasting Co., Hotel Lincoln. KFAB formerly worked on 1249 kcs., with 200 watts power, at which time it was owned by the Nebraska Buick Auto Co.
- Los Angeles, Calif., 1300 ks., 1000 ., unltd. time. Transmitter: 8581 W. 18th St. Aerial: 2 towers, 140 ft. Manager Calvin J. Smith. Owner: Los Angeles Broadcasting Co., Inc., 3443 Wilshire Blvd.
- KFAD, Not now on the air. This call was assigned to a station on 833 kcs., with 100 w., in
- Phoenix, Ariz. The owner was McArthur Brothers.

 KFAE, a former radio station in Pullman, Wash. It worked on 900 kcs., 500 w. State College of Wash.
- KFAF,
- KFAF, a former station in Denver, Colo. 1079 &cs., 500 w., Western Radio Corp.
 KFAI, A former station in Boulder, Colo. 1150 &cs., 100 w., University of Colorado.
 KFAM, St. Cloud, Minn. 1420 &cs., 190 w. nights, 250 w. days., unltd. time. Aerial: vertical,
 178 ft. Manager: George B. Bairey. Owner: Times Publishing Co.
- The initial broadcast was on June 14, 1938.
 a former station in Moscow, Idaho. 1300 kes., 50 w., University of Idaho. KFAN,
- KFAR, Fairbanks, Alaska. Under Construction. To work on 610 kcs., 1000 w., unltd. time. Owner:

- KFAR, Fairbanks, Alaska. Under Construction. 10 work on 010 kcs., 1000 w., unitd. time. Owner-Midnight Sun Broadcasting Co.

 KFAU, a former station in Boise, Idaho. 1090 kcs., 500 w., Boise High School.

 KFAW, a former station in Santa Ana, Calif. 1071 kcs., 10 watts. The Radio Den.

 KFBB, Great Falls, Mont. 1280 kcs., 1000 w. nights, 5000 w. days, unitd. time. Aerial: vertical, 420 ft. Manager: Jessie Jacobson. Applied: 7/9/38, for modification of license to change freq. from 1280 to 900 kcs., power to 5 kw., unitd. Owner: Buttey Broadcasting Co., First National Bank Bidg. Mail to P. O.Box 1817.

 The call latter KFBR wave formerly attioned to a station in Havre. Mont., 1090 kcs.,
 - The call letters KFBB were formerly assigned to a station in Havre, Mont., 1090 kcs...
- KFBC, a former station in San Diego, Calif. 1079 kcs., 5 watts. W. K. Azbill.
- KFBG, a former station in Tacoma, Wash. 1199 kcs., 50 w., First Presbyterian Church.

- Abilene, Kans., 1050 kcs., 5000 w., limited time. Transmitter: Milford. Aerial: 2 towers, 100 ft. Manager: K. W. Pyle. Owner: Farmers and Bankers Broadcasting Corp., 410 N. W. Third St. Mail to P. O. Box 345. KFBI,
- Sacramento, Calif., 1490 kcs., 10 kilowatts, unltd. time. Network: National Red and Blue. Passimile: from midnight until 6 am, PST, using 5 kw. Transmitter: Yolo County. Aerial: vertical, 365 ft. Manager: Howard Lane. Owner: McClatchey Broadcasting Co., 708 Eye Formerly worked on 1060 kcs., 100 w. Kimball-Upson & Co.
- KFCY, a former station in LeMars, Iowa. 1190 kcs., 50 w., Western Union College.
- KFDM, Beaumont, Texas. 560 kcs., 500 w. nights, 1 kilowatt to LS. unltd. time. Network:
 National Red and Blue. Aerial: 2 towers, 200 ft. Manager: J. M. Gilliam. Owner:
 Magnolia Petroleum Co. Licensee: Sabine Broadcasting Co., Inc., Hotel Beaumont. Mail to P. O. Box 2950.
- KFDY, Brookings, S. Dak. 780 kcs., 1000 w., daytime only. A non-commercial station. Aerial: 2 towers, 102 ft. Manager: S. W. Jones. Address: South Dakota State College, Box L.
- 2 towers, 102 ft. Manager: S. W. Jones. Address: South Dakota State College, Box L. Was formerly on 1099 kcs., with 100 w.
 KFEL, Denver, Colo., 920 kcs., 500 w., shares time with KVOD. Network: Mutual. Transmitter: 5580 W. 20th Ave., Edgewater Branch, Denver. Aerial: vertical, 285 ft. Manager: Gene O'Fallon. Licensee: Eugene P. O'Fallon, Inc., Albany Hotel. Formerly used 1181 kcs., 50 watts. W. L. Winner Radio Shop.
 KFEQ, St. Joseph, Mo. 680 kcs., 2500 watts, daytime only. Aerial: vertical, 330 ft. Manager: Barton Pitts. Licensee: KFEQ, Inc., Schneider Bldg.
 KFGQ, Boone, Iowa, 1370 kcs., 100 w., daytire only. Non-commercial station. Aerial: 2 towers, 83 ft. Licensee: Boone Biblical College, 924 W. Second St.
 KFGX, a former station in Orange, Texas. 1199 kcs., 500 w., First Presbyterian Church.
 KFEH. Wichie & Kape. 1300 kcs. 1000 w. pichtes 5 kilowarte to 15 wolld time. Networks.

- Wichita, Kans., 1300 kcs., 1000 w. nights, 5 kilowatts to LS, unltd. time. Network: Columbia. Aerial: vertical, 220 ft. Manager: Russel L. Lowe. Licensee: Radio Station KFH Co., York Rite Temple, 124½ S. Market St. Los Angeles, Calif. 640 kcs., 50,000 w. Unltd. time. Network: National Red. Transmitter: Buena Park. Aerial: vertical, 400 ft. Manager: Harrison Holliway. Licensee: Earle C. Anthony, Inc., 1000 S. Hope St. Spokane, Wash., 1120 kcs., 100 w., daytime only. Transmitter: 526 Riverside Ave. Aerial: vertical, 178 ft. Manager: Arthur L. Smith. Licensee: Spokane Broadcasting Corp., Zieglar KFH.
- KFI.
- KFIO. Bldg.
- Fond du Lac, Wis., 1420 kcs., 100 w., unltd. time. Transmitter: 18 W. First St. Aerial: KFIZ,
- 2 towers, 90 ft. Manager: Lynn N. Fairbanks. Licensee: Reporter Printing Co., Lange Bldg. Marshalltown, Iowa., 1200 kcs., 100 w. nights, 250 w. days to LS, unltd. time. Aerial: vertical, 219 ft. Manager: Homer Griffith. Licensee: Marshall Electric Co., Inc., 1603 W. KFJB, Main St.
- KFJI, Klamath Falls, Ore., 1210 kcs., 100 w., unltd. time. Aerial: 2 towers, 135 ft. Manager: George Kincaid. Licensee: KFJI Broadcasters, Inc., Willard Hotel.
 KFJM, Grand Forks, N. Dak., 1410 kcs., 500 w. nights, 1 kw. days to LS, unltd. time. Aerial: vertical, 165 ft. Manager: Dalton LeMasurier. Licensee: University of North Dakota, First Vertical, 165 ft. Manager. National Bank Bldg.
- Fort Worth, Texas. 1370 kcs., 100 w. nights, 250 w. days to LS, unltd. time. Transmitter: KFIZ. Sunny Hill Dairy Farm, Ft. Worth. Aerial: vertical, 155 ft. Application: Applied July 26, 1938, for CP to change trequency from 1370 to 930, increase pwr. from 100 (.25) to 500 w. unltd. Manager: R. S. Bishop. Licensee: Fort Worth Broadcasters, Inc., 502 Trinity Life Bldg.
- Greeley, Colo., 880 kcs., 500 w. nights, 1 kw. days to LS, shares with KPOF. Network: Mutual. Aerial: vertical, 279 ft. Manager: H. E. Green. Licensee: Mid-Western Radio Corp., 620 Eighth Ave. Mail to Box 735 KFKA,
- KFKQ, a former station in Conway, Ark. 1199 kcs., 100 w. Conway Radio Laboratories.
- KFKU, Lawrence, Kans., 1220 kcs., 1000 w. nights, 5 kw. days to LS, shares time with WREN. Transmitter and Aerial: KFKU uses the WREN transmitter, which is located in Tonganoxie, between Kansas City and Lawrence, Kans. Aerial is 2 towers, 200 ft. Manager: Harold Ingham. Licensee: University of Kansas. (A non-commercial station).
- KFNF, Shenandoah, Iowa, 890 kcs., 500 w. nights, 1 kw. days to LS, sharing with KUSD. Aerial: vertical, 260 ft. Permis: Has CP for directional aerial nights, and to increase power to 1000 w. nights, 5 kw. days. Manager: Fred E. Tunnicliff. Licensee: KFNF, Inc., 407 Sycamore St.
- KFOR, Lincoln, Nebr., 1210 kcs., 100 w nights, 250 w. days to LS, unltd. time. Networks: Columbia, Mutual, Central States. Transmisser: 4706 S. 48th St., Aerial: 2 towers, 80 ft. Manager: Don Searle. Licensee: Cornbelt Broaccasting Corp., Hotel Lincoln.
 KFOX, Long Beach, Calif. 1250 kcs., 1 kw., unltd. time. Network: California. Aerial: 2 towers, 142 ft. Permis: has CP to increase day pwr. to 5 kw. Manager: Hal G. Nichols. Licensee:
- Nichols & Warrinner, Inc., 1220 E. Anaheim St.
 Dublin, Texas, 1310 kcs., 100 w. nights, 250 w. days to LS, unltd. time. Aerial: vertical, 182 ft. Manager: C. B. Baxter. Licensee: KFPL Broadcasting Station, 205 Grafton St.
 Mail to P. O. Box 176.

 Fort Spith Ark. 1210 kcs., 100 x. world. time. Licensee: Cauth means a Carthurgh Co. Call. KFPL.
- KFPW, Fort Smith, Ark., 1210 kcs., 100 w. unltd. time. Licensee: Southwestern Hotel Co., Gold-

PARADE of the STATES

FOR the first time in the history of DXing, radio fans throughout the country will have an opportunity, during the 1938-39 season, to tune for special programs from broadcasting stations of their own selection, under a plan sponsored by the publishers of RADEX.

This plan, known as the *Parade of the States*, provides that all the readers of this magazine submit their votes for the most *desired* station in each state and territory, on a ballot printed on the next page. The stations receiving the greatest number of votes will be asked to broadcast, and any other stations which might interfere will be requested to stand by during the program.

The success of this plan will be assured if each one of our readers will take but a moment of his time to check over his log, and submit the questionnaire to us as soon as possible. The more ballots we receive

the greater will be the chances that the stations will agree to broadcast.

Following the name of each state and territory, on the ballot, place the call letters of the station in that state or territory which you are most anxious to log. Stations which broadcast regularly on frequency checks, or which are on the air twenty-four hours a day, should be avoided, since they can be heard without benefit of special programs.

This ballot can be clipped and pasted on a 1c postal card. Address all ballots to The Radex Publishing Co., 289 Queen Anne Road, Teaneck, N. J.

If you do not wish to mutilate your copy of RADEX you can write your selections on a postal card. Do not vote for more than one station in any state, and do not vote for stations which you can usually hear on their regular programs.

Back issues of RADEX available from September, 1930 (No. 41) to date, at 25c each; five for \$1.00; ten for \$1.75, or twenty for \$3.25.

GROUND FLOOR

Continued from Page 32

tent of that of the popular radio, concert and movie star. And the girls in the Quaker City will add that few movie stars are easier on the feminine eyes.

With his Mask and Wig reputation on one side, every essential for suc-

cess on the other, and the approval of critics and talent scouts in back of him, Carrington Veale stands on the ground floor, about to enter the "elevator" which can carry him to the heights.

Going Up!

Don't miss the pictures of verification cards from Europe, in the November issue!

BALLOT

Listed below are the call letters of the radio station each State and Territory which I am most anxious add to my radio log. 5

Montana Nebraska																		
Alabama Alaska	Arizona	California	Connecticut	Delaware D. C.	Florida	Hawaii	IdahoIdinois	Indiana	Iowa	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Misconni

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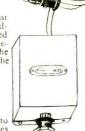
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