

NSE

SAMPLE COPY

OCTOBER 1938

RADIO INDEX

The All-Wave Radio Log Authority

Elmer R. Nelson

Route 2

Schaubicote Trail
New Milford, Conn.

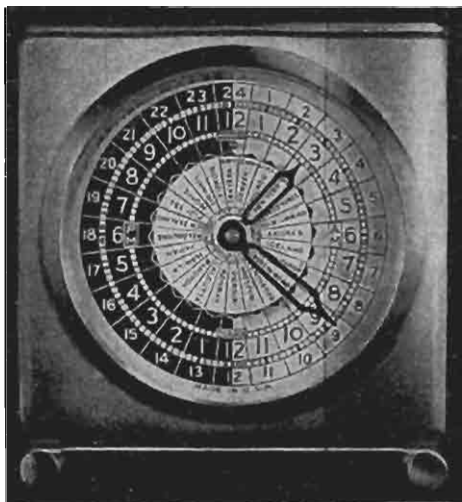


25¢

The South American Stations
Your Radio Problems Solved
Easy-to-get Shortwave Stations
North American Station Addresses

NOW
IT'S
ELECTRIC!

**THE CLOCK THAT
CAN BE SET AT
ANY OF THE
WORLD'S 24
TIME ZONES**



Melodystic Design of Brushed Brass

Tells time like an ordinary clock and automatically shows authentic time in every other zone around the world

Has A. M. and P. M. divided dial and 24-hour dial. Indicates minutes and quarter hours.

Actual size is 5¼ inches high by 4¾ inches wide.

Just plug it in and set it for the correct time. No further adjustment nor calculation is required.

For AC 110-120 volts, 60 cycles
What DXers Have Always Wished For!
THE ELECTRIC WORLD-TIME CLOCK

\$5.95

Also available in same style case in spring-driven model at \$4.95. We pay the postage.

The Radex Publishing Co.

289 QUEEN ANNE ROAD

TEANECK, N. J.

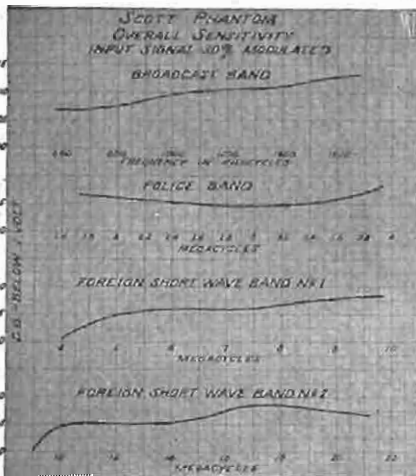
New SCOTT PHANTOM Offers TREMENDOUS Usable SENSITIVITY

VARIABLE Sensitivity so Great, Finest Laboratory Equipment can hardly Measure the **EXTREMELY WEAK** Transmissions tuned in and Amplified with this Amazing New Receiver!

The exceptionally high degree of usable, variable sensitivity on *all* wave bands is an outstanding feature of the new SCOTT PHANTOM. The overall Sensitivity curves shown indicate only the *usable* Sensitivity available for signal reception after tube and circuit noises (which have generally been included in sensitivity curves up to now) have been deducted. We believe the new Scott Phantom gives the highest degree of Usable Sensitivity that has ever been attained in *any* receiver available to the general public!

REVOLUTIONIZES SHORT WAVE AND BROADCAST BAND RECEPTION

Radically new advanced radio engineering principles are incorporated. Electrical interference from vacuum cleaners, oil burners, etc. is practically eliminated. A new Scott Super-Double Doublet Antenna System not only gives additional noise reduction but also greater antenna responses on all wave bands from 550 KC to 22 MC. New circuit arrangements



nearly eliminate tube hiss and provide still quieter reception of weak signals from distant foreign stations.

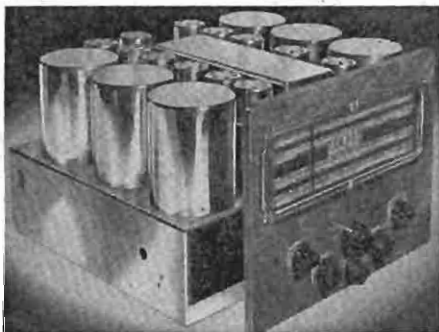
WORLD'S FINEST RADIO

CUSTOM BUILT to order in Laboratories (not a factory), SCOTT RADIOS are hand-crafted with amazing skill and precision for performance impossible with mass produced receivers. Yet, they cost no more than many production type radios. They are treasured by owners throughout America and in 148 foreign countries. When you hear the magnificent tonal realism of the Scott Phantom, you'll understand why world famous musicians, Kings, Presidents, Princes, a host of business and social leaders, buy the SCOTT and recommend it to their friends.

TRY IT IN YOUR HOME FOR 30 DAYS

30 Day home trial, and budget payments in U.S.A. NOT SOLD THRU STORES.

MAIL COUPON BELOW FOR ALL CURVE CHARTS AND SPECIAL OFFER!



E. H. SCOTT RADIO LABORATORIES, INC.

4424 Ravenswood Ave., Dept. 15R8, Chicago, Ill.

Please send set of curves, all facts, and Special Limited Offer on the new SCOTT PHANTOM.

Name

Street

City..... State.....

STUDIOS: NEW YORK - CHICAGO - LOS ANGELES - LONDON

OCTOBER 1, 1938



RADIO IN DEX



Reg. U. S. Patent Office

FIFTEENTH YEAR

NUMBER 122

PAGE TAYLOR

Editor

ASSOCIATE EDITORS

B. FRANCIS DASHIELL

Technical

CARLETON LORD

Broadcast

RAY LAROCQUE

Shortwave

CONTENTS

	PAGE
Cover Girl.....	Jane Froman, At the Top of the Songbird Star List
Radio Clean-up Time, <i>by B. Francis Dashiell</i>	3
Leaves From a DXer's Scrapbook, <i>by Count de Veries</i>	7
THE RADEX CLUB	16
High Frequency Globe Trotting, <i>by Ray LaRocque</i>	18
Answers to Readers' Problems, <i>by B. Francis Dashiell</i>	33
Universal DX Club Corner, <i>by "Pooky"</i>	38
Among the Clubs	39
What's On the Air Tonight?	40
The Shortwave Index	43
The SWL Trading Post	48
Twenty Stentors	49
Amateurs Calls Heard	52
South American Broadcasting Stations	52
North American Stations by Frequencies	56
North American Stations by Locations	76
North American Stations by Call Letters	83
The Augmented Call Letter List	93
The Parade of the States	97

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.

PRINTED IN THE U.S.A.

Radio CLEAN-UP Time

AS the shadows of the early September 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 customers 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, and 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. The 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 feet a bit in his discomfort.

"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 old-fashioned 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 out. 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 super-ten 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 dirt 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 tennis player 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 trans-oceanic 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. Old-timers 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 all 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 between points in the Northern Hemisphere, signals from South America and the Antipodes are not well received. The reason, of course, is that there is summer in the Southern Hemisphere during December and January. Consequently, reception 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-thirty. Static is light and reception conditions appear to be ideal. A listener along the North Atlantic Seaboard tunes in a European station some 3500 miles away. The time is right, as darkness covers the complete path of the signal, which is almost entirely over water. The station has a powerful transmitter—such as the 120 kilowatts of Rennes. There is no interference from other stations. The 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-kilowatt stations—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 rapidly. 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.

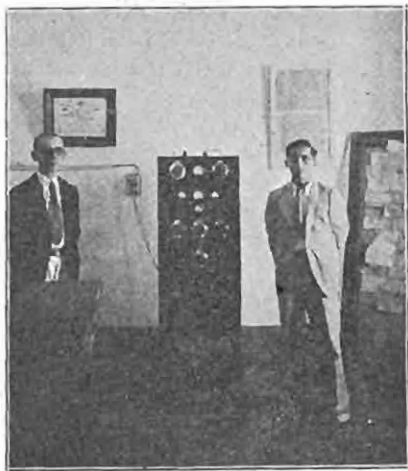
A complete list of South American stations is given in another section of this issue, while following is a short listing of the more powerful stations including a few Central Americans which are worth watching:

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 HJN 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
 750 LRA 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
 870 LR6 26000 Buenos Aires, Arg.
 880 PR13 22000 Bello Horizonte, B'1
 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 Sao Cristobal, Venez.
 990 LR4 16000 Buenos Aires, Arg.
 1000 HJ3ABH 2000 Bogota, Colombia
 PRB9 10000 Sao Paulo, Brazil
 1005 YV5RG Caracas, Venez.
 1030 LR9 5000 Buenos Aires, Arg.
 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.
 1120 LV5 5000 San Juan, Arg.
 PRH8 5000 Rio de Janeiro, Brazil
 YV1RF 1000 Maracaibo, Venez.
 1150 LR8 7000 Buenos Aires, Arg.
 1160 PRH3 5000 Sao Paulo, Brazil
 1190 LS2 30000 Buenos Aires, Arg.
 1220 PRA9 25000 Rio de Janeiro, Brazil
 1230 LS8 15000 Buenos Aires, Arg.
 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 PRC8 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 a distance from Cleveland should have no difficulty in hearing the 50-KW LR1 on 1070 between night-fall and the time WTAM begins to come through. Many DXers report



The transmission equipment of station HJ1ABK, "The Voice of the Country," at Barranquilla, Colombia. Working on 1310 kcs., 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 cinch 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 aeriels. 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 mid-winter 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 at 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.
610	2FC	3500	Sydney, N. S. W.
620	3AR	4500	Melbourne, Vict.
630	4QN	7000	Clevedon, Qsld.
640	5CK	7500	Crystal Brook, S. A.
650	1YA	10000	Auckland, N. Z.
670	2CO	7500	Corowa, N. S. W.
700	2NR	7000	Grafton, N. S. W.
710	7NT	7000	Kelso, Tasmania
720	3YA	10000	Christchurch, N. Z.
730	5CL	4000	Adelaide, S. A.
740	2BL	3000	Sydney, N. S. W.
770	3LO	3500	Melbourne, Vict.
790	4YA	10000	Dunedin, N. Z.
800	4QG	2500	Brisbane, Qsld.
830	3GI	7000	Longford, Vict.
840	2YC	5000	Wellington, N. Z.
870	2GB	1000	Sydney, N. S. W.
910	4RK	2000	Rockhampton, Qsld.
950	2UE	1000	Sydney, N. S. W.
990	2GZ	2000	Orange, N. S. W.
1020	2KY	1000	Sydney, N. S. W.
1040	5PI	2000	Crystal Brook, S. A.
1120	4BC	1000	Brisbane, Qsld.
1170	2NZ	2000	Inverel, N. S. W.
1190	2CH	1000	Sydney, N. S. W.
1220	4AK	2000	Oakey, Qsld.
1230	2NC	2000	Newcastle, N. S. W.
1260	3SR	2000	Shepparton, Vict.
1270	2SM	1000	Sydney, N. S. W.
1300	2TM	2000	Tamworth, N. S. W.
1410	2KO	5300	Newcastle, N. S. W.

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 for the morning. On some mornings, he will hear the ever-welcome "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. If 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 on 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 order. 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. This "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 ventriloquist'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 Verified 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 requirements.

1. 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.

2. 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.
3. 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 REQUEST 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.

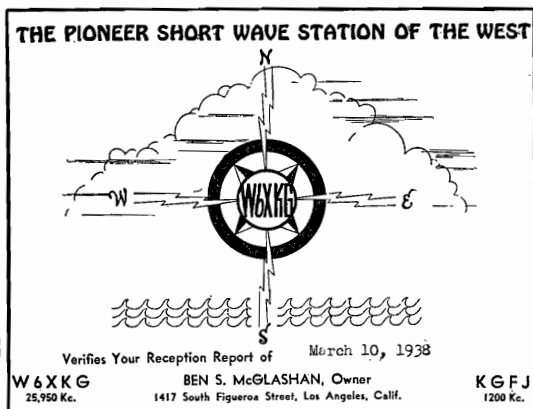
Broadcast band verifications, as explained above, will be within the frequencies of 540 and 1600 kilocycles. The six continental areas are:

1. 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**



WITH 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 mecca 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

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 information received from official 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 the air some time ago, we have no

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 Guatemala, 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, Suffolk, 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 get 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 automobiles. 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 looking 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, 21½ miles north-west 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 granted 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 been 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 kcs., 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.

VERI 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 certifying 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 short-wave 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).

Curacao

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 Cler).

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 volume 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 short-wave 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, tin 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 Manaus, 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.



"Radio International de Brazil"

CAIXA GUSTAV 700

Rio de Janeiro

1925

The most beautiful harbor in the world, at Rio de Janeiro, 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 Manaus. 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 into 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 Guaiara, 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 trans-mitter); exp (experimental) LS (local sunset).

WCBS, 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) unltl.

WHB, Kansas City, Mo., CP to change pwr. to 10 kw. unltl.

WHDH, Boston, Mass., CP to change pwr. to 5 kw. unltl.

WHJB, Greensburg, Pa., CP change pwr. to 1000 w. unltl.

WIP, Philadelphia, Pa., CP to change pwr. to 5 kw., move xmitter to Brooklawn, N. J. (SFH).

WIRE, Indianapolis, Ind., mod. of CP to change pwr. 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. to 5 kw. unltl.

WJBL, Decatur, Ill., CP to change freq. to 1310, pwr. to 100 (.25) unltl.

WKBN, Youngstown, Ohio, mod. of lic. to change freq. to 640, pwr. to 1 kw. unltl.

WMBC, Detroit, Mich., CP to change freq. to 600 pwr. to 250 w. unltl. (SFH).

WMFF, Plattsburg, N. Y., CP to change freq. to 1240, pwr. to 1 kw.

WPG, Atlantic City, N. J., CP to change hrs. from specified to unltl., 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. and Salem Creek. (SFH).

WTEL, Philadelphia, Pa., mod. of lic. to change freq. to 1500, hrs. to unltl. (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) unltl.

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

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

Fremont, Nebr., Nebr. Brdctg. Corp., 1370 kcs., 100 (.25).

Hastings, Nebr., South Nebr. Brdctg. Co., 920 kcs., 1000 (5).

Herrin, Ill., Orville W. Lyerla, 1310 kcs., 100 (.25) unltl.

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. unltl. Requests facilities of KTRB.

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

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

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

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

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

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

Sumter, S. C., J. Samuel Brody, 1310 kcs., 100 (.25) unltl. (SFH).

Tacoma, Wash., Michael J. Mingo, 1400 kcs., 250 w. unltl.

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

RECOMMENDATIONS OF FCC EXAMINERS

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

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

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 change studio to Muscle Shoals City.

WPRa, Mayaguez, P. R., CP to change freq. to 780, pwr. to 1000 (2.5) unltl.

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) unltl.

Denver, Colo., F. W. Meyer, 1310 kcs., 100 (.25).

Emporia, Kans., Emporia Brdctg. Co., Inc., 1370 kcs., 100 w. days.

Lihue, Hawaii, Garden Island Pub. Co., Ltd., 1500 kcs., 100 (.25) unltl.

Goldsboro, N. C., 1370 kcs., 100 w. unltl.

New Bern, N. C., Nathan Frank, 1500 kcs., 100 w. unltl.

Rock Hill, S. C., 1500 kcs., 100 w. days.

St. Petersburg, Fla., Pinellas Brdctg. Co., 1370 kcs., 100 (.25) unltl.

Vancouver, Wash., 808 kcs., 250 w. days.

Wallace, Idaho, 1420 kcs., 100 (.25) unltl.

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	
.... 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 TGI	Guatemala City, from 1305	850 WKAR	E. Lansing, Mich., to 5000
Power		850 WWL	New Orleans, La., to 50000
570 CMCY	Havana, Cuba, 10,000 from 5000	880 CMW	Havana, Cuba, to 5000
810 CMCF	Havana, Cuba, 5000 from 600	880 WRNL	Richmond, Va., to 1000
1200 KVEC	San Luis Obispo, Calif., 100 (.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
1050 WGVA	Indiana Brdctg. Corp., Indiana- polis, Ind.	1170 CMBS	Havana, Cuba, to 5000
1310 WGTM	WGTM, Inc., Wilson, N. C.	1190 WATR	Waterbury, Conn., to 250
1370 KLUF	KLUF Brdctg. Co., Inc., Galveston, Tex.	1240 KLPM	Minot, N. Dak., to 500 (1)
1470 WLAC	J. T. Ward, WLAC Brdctg. Service, Nashville, Tenn.	1250 KLT	Yakima, Wash., to 500 (1)
Permit to Change Frequency		1260 CMBD	Havana, Cuba, to 5000
770 KFAB	Lincoln, Neb., to 1080	1310 KINY	Juneau, T. A., to 250
980 XEFE	Nuevo Laredo, Tams.	1350 CMCA	Havana, Cuba, to 5000
1190 WATR	Waterbury, Conn., to 1290	1350 KWK	St. Louis, Mo., to 5000
1240 KLPM	Minot, N. Dak., to 1360	1370 KAST	Astoria, Ore., to 100 (.25)
		1370 KSLM	Salem, Ore., to 500
		1380 WNBC	New Britain, Conn., to 250 (1)
		1380 WSMK	Dayton, Ohio, to 250 (.5)

The DX Calendar

EST		PST
Sept. 24, 9-10 pm	HP5A, 9604 kcs., Panama City, Pan. (IDA)	6-7 pm Sept. 24
Oct. 14, 1:30-7:15 am	WJAG, 1060 kcs., Norfolk, Nebr.	10:30 pm Oct. 13 to 4:15 am Oct. 14
Oct. 15, 3-4 am	PRD2, 1060 kcs., Rio de Janeiro, Brazil (IDA)	12:01-1 am Oct. 15
Oct. 22, 10-11:30 pm	TGW, 1520 kcs., TGWA, 9685 kcs., Guatemala City, Guat. (IDA)	7-8:30 pm Oct. 22
Nov. 6 to 12, 3-4 am	PRG2, 1040 kcs., Sao Paulo, Brazil (IDA)	12:01-1 am, Nov. 6-12
Nov. 11, 1:30-2 am	WJAG, 1060 kcs., Norfolk, Nebr.	10:30-11 pm Nov. 10
Nov. 24, 9-10 pm	T14NRH, 9670 kcs., Heredia, Costa Rica (NRC)	6-7 pm, Nov. 24
Dec. 4, ?	HJ7ABD, 9630 kcs., Bucaramanga, Colombia (IDA)	? Dec. 4
Dec. 9, 1:30-2 am	WJAG, 1060 kcs., Norfolk, Nebr.	10:30-11 pm, Dec. 8
Dec. 18, 1-2 am	EAJ7, 1095 kcs., Madrid, Spain (IDA)	10-11 pm, Jan. 7
Jan. 8, 1-2 am	"Radio Strasbourg," 859 kcs., Strasbourg, France (IDA)	10-11 pm, Dec. 17

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 years. 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 well-staged dances, the lively specialty numbers, the novel and 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 Love," "Make Believe Island" and "Gypsy in My Soul."

And no review failed to applaud the



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 their 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 circuit 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 radio-frequency 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. Besides 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 ultra-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 20-meter 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 radio-frequency 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 high-resistance 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 BEFORE 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 into the set through the electrical wiring of the building, a filter at your wall outlet, such as you have used, is not always satisfactory. The elevator 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 all-wave 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 BETWEEN 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 am-

ateur 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 doubler 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 aeriels 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 NUMBER 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 a 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 SPFAKER 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 re-

sistor, 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

• • • By "Pooky"



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 network 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-11:30 am, C-10:30, 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-10:30
B—RCA Magic Key

CBF CBL CFCE CMQ KAND KARK
 KDKA KDYL KECA KERN KEX
 KFBK KFDM KFSD KFYR KGA
 KGBK KGHF KGHJ KGRS KGNC
 KGO KGU KIDO KJR KLO KMA
 KMBE KMJ KOA KOAM KOB
 KOIL KPFA KRGV KRIS KSEI
 KSO KSOU KTAR KTBS KTHS
 KTMS KYOO KWG KWK KXYZ
 WABY WAGA WALA WAVE
 WBAL WBOW WBRE WBZ WBZA
 WCOP WCSB WCSH WDAY WDSU
 WEAN WEEB WEBR WENR
 WFAP WFBC WFPA WFIL WFLA
 WGAL WGBF WHAM WHK WIBA
 WICC WIOD WIRE WIS WJAX
 WJBO WJDX WJTN WJZ WKY
 WLEU WLW WMAL WMPF WMPW
 WMT WOAI WOOD WORK WOWO
 WPTF WREN WROL WRTD WRSN
 WSGN WSM WSOC WSPD WSWN
 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 WBNB WCAE
 WCOP WCSH WDAF WDEL WEAF

WEBC WFBR WGY WHO WIBA
 WIRE JAR WMAQ WNAC WOOD
 WOV 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 Saiter
 CBM KPBC KSD KSTP KYOO
 KYW WRAP WBNB WCAE WCOP
 WCSH WDEL WEAF WFER WFLA
 WGAL WGL WGY WIOD WJAR
 WJAX WLW WMAQ WMBG WNAC
 WOAI WORK WPTF WRC WSOC
 WSPD WTAG WTAM WTAR WTIC
 WWJ WWNC

E-6:30 pm, C-5:30, W-4:30, P-3:30
C—Passing Parade; Oscar Bradley
 KLBA KLZ KRLL KTRH KTSB
 KTUL KWKH WABC WACO WADC
 WALA WHIG WBNB WBRB WBT
 WCA WCAU WCOA WDAE WDBJ
 WDBO WDNC WDOD WDRC WEAN
 WFBL WFBM WFEA WGR WGST
 WHAS WHC WHK WHP WIBX
 WICC WJAS WJR WJSB WKBN
 WKRC WLAC WLRZ WMAS WMBR
 WNAC WNOX WOKO WORC WQAM
 WRES WSBT WSPA WSJS WSMK
 WSPD WTOC WWL WWVA

E-7:00 p.m., C-6:00, M-5:00, P-4:00
R—Charlie McCarthy; Stroud Twins
 CFCE CRTT KDYL KFI KFYR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KTBS KVOO
 KYW WAVE WBNB WCAE WCSH
 WDAF WDAY WEAF WEEB WFPA
 WFER WFLA WGY WHO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WKY WLW WMAQ WMC
 WNAC WOAI WOV 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
C—Ford Symphony Concert
 CFBB CKAC KFAB KFBB KFH
 KFPY KGAR KGLG KGOV KIRO
 KLRA KLZ KMBC KMOX KNX
 KOH KOIN KOMA KOY KRLL
 KRNT KSCJ KSFO KSL KTRH
 KTSB KTUL KVI KYOR KWKH
 WABC WBBM WBIG WBNB WBRK
 WBT WCAO WCAU WCCO WCHS
 WCOA WCOG WDAE WDBJ WDBO
 WDOD WDRC WEI WFBL WFBM
 WGAR WGBI WGR WGST WHAS
 WHC WHIO WHP WIBW WISN
 WJAS WJNO WJR WJSB WKBH
 WKBN WKBW WKRC WLAC WLBZ
 WMBD WMBR WMMN WNAK
 WNBX WNOX WOKO WORC WPRO
 WQAM WREB WRC WSBT WSPA
 WTAQ WTOC WWL WWVA

R—Manhattan Merry Go-Round
 CFCE KDYL KFI KFYR KGW
 KHQ KOA KOMO KPO KPRC KSD
 KSTP KTBS KTHS KYW WAVE
 WBNB WCAE WCKY WCHS WDAF
 WDAY WEAF WEEB WEI WFPA
 WFER WFLA WGY WHO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WKY WMAQ WMC WOAI
 WOV WPTF WRC WRVA WSB
 WSM WSMB WSOC WTAG WTAM
 WTAR WTIC WTMJ WWJ WWNC

E-8:30 pm, C-7:30, M-6:30, P-5:30
R—Album of Familiar Music
 CFCE CRTT KDYL KFI KFYR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTBS KYW WAPI
 WAVE WBNB WCAE WCHS WDAF
 WDAY WEAF WEEB WEI WFPA
 WFER WFLA WGY WHO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WKY WMAQ WMC WOAI
 WOV WPTF WRC WRVA WSAI WSB
 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 WDAF WFBR
WGY WHO WIRE WJAR WLW
WMAQ WNAC WOW WRC WTAG
WTAM WTC WJ

WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAJ WOW WPTF
WRC WRVA WSB WSM WTAG
WTAM WTAR WTC WWJ WWCN
Also on Canadian Network

E-9:00 pm, C-8:00, M-7:00, P-6:00
R—Believe It Or Not
KANS KARK KDYL KELO KERN
KFPK KFDKM KFI KFYR KGBX
KGNC KGW KHQ KMJ KOA KOMO
KPO KPRC KSD KSTP KTAR
KTBS KTSM KVOO KWG KYW
WAYE WBEN WBRC WBBB WCAE
WCOL WCSH WDAF WDAY WDEL
WDFW WDFC WDFC WFBR WFLA
WGBF WGI WGY WHO WJAX
WIOD WIRE WIS WJAR WJAX
WKY WLW WMAQ WMBG WMC
WNAC WOAJ WORK WOW WPTF
WRC WRVA WSAJ WSB WSM
WSMB WSOC WSPD WSUN WTAG
WTAM WTAR WTC WTMJ WWJ

MONDAY

E-5:45 pm, C-4:45, M-3:45, P-2:45
R—Lowell Thomas
CRCT KDKA WBAL WBZ WBZA
WFLA WIOD WJAX WJZ WLW
WXYZ

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

TUESDAY

E-6:00 pm, C-5:00, M-4:00, P-3:00
R—Amos 'n' Andy
KSD KSTP KYW WBEN WCAE
WCSH WDAF WFBR WGY WHO
WJAR WLW WNAC WRC WTAG
WTAM WTC WWJ

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

WEDNESDAY

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

R—Uncle Ezra's Radio Station
KARK KFBR KGBX KGNC KPRC
KSTP KTBS KTHS KVOO KYW
WBAP WBEN WCAE WCKY WCOL
WCSH WDAF WDAY WDAF WDFC
WFAA WFBZ WGBF WGY WHO
WJAX WIRE WJAR WKY WMAQ
WNAC WOAJ WOOD WOW WRC
WTAG WTAM WTC WTMJ

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
WDAF WDFC WFBZ WFLA WGY
WHO WJAX WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTC
WTMJ WWJ WWCN

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
WFIL WNEF WSYR WOR WXYZ

E-7:30 pm, C-6:30, M-5:30, P-4:30
R—Wayne King's Orchestra
KPYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBEN
WCAE WCKY WCSH WDAF WDAY
WDAF WDFC WFBZ WFLA WGY
WHO WJAX WIOD WIRE WIS
WJAR WJDX WKY WLW WMAQ
WMC WNAC WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTC
WTMJ WWJ WWCN

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

E-6:45, C-5:45, M-4:45, P-3:45
C—Beake Carter
KDAL KFAB KFH KGLO KLRA
KMBC KMOX KRLD KRNT KSCJ
KTRH KWKH WABC WADC WAPI
WBMM WBIG WBNS WBT WCAO
WCAU WCCO WCSH WDAE
WDBZ WDRO WDOD WDRC WEEI
WFOA WFLM WFLS WFTM WJAR
WGST WHAS WHFC WHIO WHP
WISN WIAS WJNO WJR WJST
WKBH WKBN WKRC WLAC WMBZ
WMBR WMFG WNAZ WNOX WOC
WOKO WORE WPRO WQAM WRBC
WRVA WTAQ WWL WWVA

E-8:00 pm, C-7:00, M-6:00, P-5:00
R—Vox Pep: Sidewalk Interviews
KSD KYW WBEN WCAE WCKY
WCSH WDAF WDAF WEEI FBR
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTC
WWJ

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

E-7:00 pm, C-6:00, M-5:00, P-4:00
R—Buras and Allen
CRCT KYW WBEN WCAE WCSH
WCSH WDAF WFBR WFLA WGY
WHO WIOD WIRE WIS WJAR
WJAX WLW WMAQ WNAC WPTF
WRC WRVA WOC WTAG WTAM
WTAR WTC WWJ

E-8:30 pm, C-7:30, M-6:30, P-5:30
C—Benny Goodman's Orchestra
KFAB KFH KFPY KGKO KIRO
KLRA KLZ KMBC KMOX KNOW
KNX KOIN KOMA KOY KRLD
KRNT KSCJ KSFO KSL KTRH
KTSN KTUL KYI KVOR KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
W(AU WCCO WCHS WDAE WDBJ
WDBO WDNB WDOD WDRC WEEI
WFBL WFBM WGAR WGST WHAS
WHFC WHIO WHP WIBOW WIBX
WISN WIAS WJR WJSV WKBB
WKBN WKBW WKRC WLAC WLBB

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 WDFW
WDFC WFBZ WFLA WGY WHAM
WHO WJAX WIOD WIRE WIS
WJAR WJDX WJDX WKY WLW
WMAQ WMBG WMC WNAC WOAJ
WOW WRC WSAJ WSB WSM
WSMB WSOC WSUN WSYR TAG
WTAM WTAR WTC WTMJ WWJ
WWNC

E-7:30 pm, C-6:30, M-5:30, P-4:30
C—Plek and Pat
WBT WCAO WCAU WDRC WEAN
WFBL WGR WGST WHEC WHK
WHP WIC WJAS WJR WJSV
WKRC WLBZ WMAS WNAC WOKO
WOC WSPD

R—Voice of Firestone
CFCF CRCT KFYR KPRC KSD
KSTP KTBS KVOO KYW WAVE
WBEN WCAE WCSH WDFC WDAF
WDAY WDAF WDFC WEEI WFAA
WFBZ WFBZ WFLA WGY WHO
WJAX WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAJ WOW WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTC 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 WBMM
WBIG WBNS WBT WCAO WCAU
WCHS WDAE WDBZ WDRO WDNB
WEEI WFLM WFBZ WGAR WGBI
WGH WGST WHEC WHIO WHP
WIBX WJAS WJNO WJR WJSV
WKBZ WKRC WLBB WMAS WMBR
WMMN WNEF WNBX WOKO
WORC WPAR WPG WPRO WQAM
WRVA WSJS WTC

E-9:00 pm, C-8:00, M-7:00, P-6:00
C—Wayne King and Orchestra
KLB KERN KFAB KFBR KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRNT KSL KYI
KWG WAAB WABC WADC WBBM
WENS WBT WCAO WCAU WCCO
WDRS WEAN WFBL WFBM HAS
WHK WJAS WJR WJSV WJST
WKBW WKRC WOKO WSPD WWL
R—Contented Program
CFCF CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYW
WBEN WCAE WCSH WDAF WDAF
WEEI WFBR WFLA WGY WHO

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

E-9:00 pm, C-8:00, M-7:00, P-6:00
R—Kay Kyser's Orchestra
KANS KARK KDYL KERN KFPK
KFI KFYR KGBX KGHZ KGR
KGNC KGU KGW KHQ KIDO KMJ
KOA KOB KOMO KPFA KPO
KPRC KSD KSEI KSTP KTAR
KTBS KTHS KTSM KVOO KWG

KYW WAVE WBEN WBRC WCAE
 WCSC WCSH WDAF WDAY WDEL
 WFAF WECB WFAA WFBC WFBR
 WFBA WFLL WGL WGY WHO
 WJBA WJOD WIRE WIS WJAR
 WJAX WJDX WKY WLW WMAQ
 WMBG WMC WNAC WOAI WOOD
 WORR WOW WPTF WRC WSB
 WSM WSMB WSOC WWSN 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
 WBBM WBNS WCAO WCAU WCHS
 WDRC WEHI WFBL WFBM WHAS
 WHEC WHIO WIBX WJAS WJR
 WKBW WKRC WMAS WNEF
 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
 KGLD KGOV KIRO KLRA KLZ
 KMOX KNOW KNX KOH KOIN
 KOMA KOY KRLD KRNT KSCJ
 KSFO KSL KTRH KTSa KTUL
 KVI KVOR KWKH WACO WAPI
 WCCO WCOA WCOG WDDO WFBM
 WHAS WHLE WIBW WISN
 WRBH WLAC WMPG WMBD
 WNOX WOC WREC WSFA WTAQ
 WWL
 M—The Lone Ranger
 KALE KIDB KDON KFRC FFXM
 KGB KGDH KIH 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 WBAF WBEN WBRC WCAE
 WCSH WDAF WDEL WFAF WECB
 WFAA WFBR WFLA WGY WHO
 WJBA WJOD WIRE WJAR WJAX
 WKY WLW WMAQ WMBG WMC
 WNAC WOAI WRC WSB 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 KLRA KLZ KMBC KMOX
 KNOW NNX KOIN KOMA KOY
 KRLD KRNT KSCJ KSFO KSL
 KTRH KTSa KTUL KVI KVOR
 KWKH WABC WACO WADC WAPI
 WBBM WBIG WBNS WBT WCAO
 WCAU WCCO WCHS WCOA WDAE
 WDBJ WDBO WDNC WDDO WDRC
 WEHI WEOA WFBL WFBM WGAR
 WGBI WGST WHAS WHEC WHIO

WHP WIBW WIBX WISN WJAS
 WJNO WJR WJSV WKBH WKBN
 WKBW WKRC WLAC WLWB WMAS
 WMBD WMBR WMMM WNAX
 WNEF WNOX WOC WOKO WORC
 WPAR WPG WPRO WQAM WROC
 WRYA WSFA WSJS WTAQ WTCC
 WWL

E-9:00 pm, C-8:00, M-7:00, P-6:00
 R—Bing Crosby; Bob Burns

CBF CBL CBM KARK KDYL KFI
 KGLH KGR KGW KHQ KOA
 KOMO KPFA KPO KPRC KSD
 KSTP KTFAR KTBS TBS KVOO
 KYW WAVE WBAF WBEN WBRC
 WCAE WCSH WDAF WDEL WFAF
 WFBZ WFBC WFBR WFLA WGY
 WHAM WHO WJBA WJOD WIRE
 WIS WJAR WJAX WJDX WKY
 WLW WMAQ WMBG WMC WNAC
 WOAI WOW WPTF WRC WROL
 WSB WSM WSMB WSOC WSYR
 WTAG WTAM WTAR WTIC WTMJ
 WWJ

FRIDAY

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

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

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—Cities Service Concert

CRCT CFYR KOA KPRC KSD
 KSTP KTBS KTHS KVOO KYW
 WBAF WBEN WCAE WCSH WDAF
 WDAY WFAF WECB WEEI WFAA
 WFBZ WGY WHO WJBA WJOD
 WJAR WKY WMAQ WOAI WOW
 WRC WRVA WSAI WTAG WTAM
 WTIC WTMJ WWJ

E-8:00 pm, C-7:00, M-6:00, P-5:00
 B—George Olson's Orchestra

KDKA KFEL KLO KOIL KPRC
 KSO WTAR WTBS KVOO KWK
 WABY WAVE WBAL WBRC WBZ
 WBEA WBSB WEAN WECB WEBR
 WFAA WFBC WFIL WFIA WHAM
 WHK WICC WIOD WIS WJAX
 WJDX WJZ WKY WLS WLW WMAL
 WMC WMT WOAI WOWO WPTF
 WREN WROL WRPD WSB WSM
 WSMB WSOC WSPD WWSN WSYR
 WTAR WTNC WWNC WXYZ
 R—Frank Munn; Abe Lyman
 KSD KYW WBEN WCAE WCSH
 WDAF WFAF WEEI WFBZ WGY
 WJAR 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 KFEB KFEL
 KFSL KGA KGO KJR KLO KMJ
 KOIL KSO KWG KWK KXYZ
 WABY WAGA WBAL WEBZ WBZA

WKCY WCOL WCSC WDSU WEAN
 WEBR WFIL WHAM WHK WWC
 WJZ WLS WMAL WMP5 WMT
 WREN WSPD WSYR WXYZ
 E—Death Valley Days
 KDKA KDYL KFI KGW KHQ KOIL
 KOMO KPO KSO KWK WBAI 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 KPRC WSD KSTP
 KTBS KTBS KYW WAVE WBEN
 WCAE WCSH WDAF WDAY WFAF
 WECB WEEI WFAA WFBZ WFLA
 WGY WHO WJBA WJOD WIS WJAR
 WJAX WJDX WKY WLW WMAQ
 WMC WPTF WRC WRVA WSB
 WSM WSMB WSOC WTAG WTAM
 WTAR WTIC WTMJ WWJ WWNC

SATURDAY

E-6:30 pm, C-5:30, M-4:30, P-3:30
 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 WBAF WBZ WBZA WFIL
 WFLA WHK WHAM WJOD WIRE
 WIS WJAX WJDX WJZ WKY WLS
 WMAL WMC WMT WOAI WOO
 WPTF WREN WRVA WSB WSMB
 WSOC WWSN WSYR WTAR WWSN
 WXYZ

C—Prof. Quiz

KDB KERN KFAB KFBB KFPY
 KPRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMA
 KRLD KRNT KSL KTRH KTSa
 KVI 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 KFBB KFH KFPY
 KPRC KGB KGGO KGMB KHJ
 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 WBNS WBRC WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDBO WDBC WDDO WDRC WEAN
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WHP WIBW WIBX
 WICC WISN WJAS WJR WJSV
 WKBW WKRC WLAC WLWB WMAS
 WMBD WMBG WMBR WNAC
 WNAX WNOX WOC WOKO WORC
 WPG WQAM WREC WSBT WSFA
 WSJS WSPD WTCC WWL WWVA

The Shortwave Index

The shortwave broadcasting stations of the world are shown in the index which follows. Broadcasting stations which are easily received in the United States are listed in "Twenty Stentors," on another page. The North American Police Broadcasters were indexed in the September issue.					
4107	1000	HCJB2	Quito, Ecuador		
4273	20000	RW15	Khobarovsk, U.S.S.R.		
4420	300	ZMBJ	s.s. Atwatea		
4600	300	HC2ET	Guayaquil, Ecuador		
4710	750	YDU2	Medan, Sumatra		
4740	...	HJ6ABC	Ibague, Colombia		
4760	50	HJ1ABJ	Santa Marta, Colombia		
4780	300	HJ1ABB	Barranquilla, Colombia		
4787	250	HJ7ABC	Cucuta, Colombia		
4800	1000	HJ1ABE	Cartagena, Colombia		
4810	150	YDL2	Solo, Java, N. E. I.		
4840	1000	HJ3ABD	Bogota, Colombia		
4865	250	YDG5	Batavia, Java, N. E. I.		
4880	2500	HJ4ABP	Medellin, Colombia		
4895	150	YDP3	Sourabaya, Java, N. E. I.		
5000	10000	VD2	Delhi, India		
5003	...	HCT	Guayaquil, Ecuador		
5145	...	OK1MPT	Praha, Czechoslovakia		
5146	1000	PMY	Bandoeng, Java, N. E. I.		
5350	15	...	Haiphong, French Indo-China		
5735	...	HC1PM	Quito, Ecuador		
5755	1000	YV2RA	San Cristobal, Venezuela		
5738	...	YNOP	Managua, Nicaragua		
5770	...	T18WS	Puntarenas, Costa Rica		
5813	...	TIGPH2	San Jose, Costa Rica		
5825	...	TIGPH	San Jose, Costa Rica		
5850	300	TIXGP3	San Jose, Costa Rica		
5850	300	YV1RB	Maracaibo, Venezuela		
5855	40	HI1J	San Pedro de Macoris, D. R.		
5875	500	HRN	Tegucigalpa, Honduras		
5882	325	ZEA	Salisbury, Southern Rhodesia		
5885	200	HI9B	Santiago de los Caballeros, D. R.		
5895	...	YV3RA	Barquisimeto, Venezuela		
5900	250	ZNB	Mafeking, Bechuanaland		
5905	...	TILS	San Jose, Costa Rica		
5913	...	YV4RH	Valencia, Venezuela		
5925	...	HH2S	Port-au-Prince, Haiti		
1615	15	YDB4	Tjepoe, Java		
1630	150	YDD2	Bandoeng, Java		
1640	25	YDA3	Buitenzorg, Java		
1660	25	YDB3	Djakakarta, Java		
1840	15	YDO5	Soerabaja, Java		
1850	25	YDU5	Padang, Sumatra		
1860	50	YDK6	Semarang, Java		
1900	100	YDG6	Batavia, Java		
1920	20	YDH9	Buitenzorg, Java		
1960	100	YDH8	Bandoeng, Java		
1980	30	YDO8	Soerabaja, Java		
2080	30	YDH5	Garoet, Java		
2090	30	YDG3	Batavia, Java		
2110	20	YDI2	Soekaboemi, Java		
2350	25	YDE5	Djakakarta, Java		
2385	150	YDA2	Batavia, Java		
2415	150	YDA5	Bandoeng, Java		
2450	150	YDB2	Semarang, Java		
2500	25	YDE2	Solo, Java		
2710	25	YDE3	Samarang, Java		
2730	75	YDO6	Soerabaja, Java		
2790	50	YDH7	Bandoeng, Java		
2810	25	YDQ6	Malang, Java		
2870	25	YDA6	Cheribon, Java		
2950	18	YDQ5	Malang, Java		
3040	10000	YDA	Batavia, Java		
3130	40	YDH6	Bandoeng, Java		
3158	150	YDE4	Soerabaja, Java		
3190	30	YDK2	Semarang, Java		
3230	30	YDQ4	Malang, Java		
3270	15	YDA7	Pekalongan, Java		
3290	50	YDO3	Soerabaja, Java		
3300	70	YDG4	Batavia, Java		
3305	10000	VUB2	Bombay, India		
3320	30	YDH4	Bandoeng, Java		
3380	50	YDK5	Semarang, Java		
3390	20	YDH2	Tjimahi, Java		
3410	45	YDL4	Djakakarta, Java		
3430	30	YDP2	Soerabaja, Java		
3450	220	YDL3	Solo, Java		
3490	600	CR7AA	Lourenco Marques		
3490	10000	VUD2	Delhi, India		
3492	200	YDH3	Bandoeng, Java		
4002	50	CT2A)	Ponta Delgada, Azores		

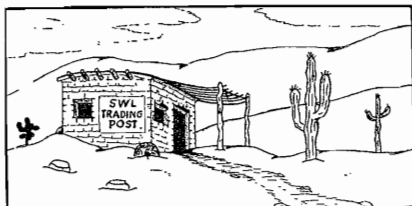
5935	300	YV1RL	Maracaibo, Venezuela	6050	20000	GSA	London, England
5940	150	PJC1	Willemstad, Curacao	...	HJ6ABA	Pereira, Colombia	
5945	200	TG2X	Guatemala Cit, Guat.	6057	49	ZHJ	Penang, Fed. Malay States
5969	15000	HVJ	Vatican City	6060	...	VQ7LO	Nairobi, Kenya
5970	1000	YV5RC	Caracas, Venezuela	10000	W3XAU	Philadelphia, Pa.	
5975	250	OAX4P	Huancayo, Peru	10000	W8XAL	Cincinnati, Ohio	
5977	...	CS2WD	Lisbon, Portugal	...	...	Tananarive, Madagascar	
5995	10000	VUD2	Delhi, India	6065	500	SBO	Stockholm, Sweden
6000	5000	CXA2	Montevideo, Uruguay	100	XEXR	Mexico City, D. F., Mexico	
	90	FJP	Ste. Denis, Reunion	6070	50	HJ3ABF	Bogota, Colombia
	...	RV59	Moscow, U. S. S. R.	150	VP3MR	Georgetown, Brit. Guiana	
6005	500	XEBT	Mexico City, D. F.	...	YV1RD	Maracaibo, Venezuela	
	75	CFCX	Montreal, P. Q.	6075	250	XECU	Guadalajara, Jal., Mexico
	200	HP5K	Colon, Panama	6077	15000	OAX4Z	Lima, Peru
	6000	VE9DN	Montreal, P. Q.	6080	50000	DJM	Berlin, Germany
	1500	XYO	Rangoon, Burma	...	HP5F	Colon, Panama	
6007	5000	ZRH	Pretoria, U. of So. Africa	10	VE9CS	Vancouver, B. C., Canada	
6010	1000	CJCX	Sydney, N. S., Canada	20000	W9XAA	Chicago, Ill.	
	1000	COCO	Havana, Cuba	...	XEWW	Mexico City, D. F.	
	35000	OLR2A	Praha, Czechoslovakia	...	HJ5ABD	Cali, Colombia	
	5000	PRA8	Recife, Brazil	10000	VUB2	Bombay, India	
6012	400	ZHO	Singapore, St. Settlements	...	ZHP	Singapore, St. Settlements	
6015	125	HI3U	Santiago de los Caballeros, D. R.	6087	...	VU7MC	Akash-Vani, Mysore, India
	1000	HJ3ABX	Bogota, Colombia	6090	...	HJ6ABC	Ibague, Colombia
6015	400	XEWI	Mexico City, D. F.	25000	TPB15	Paris, France	
6020	50000	DJC	Berlin, Germany	100	XEBF	Jalapa, Ver., Mexico	
6022	20	XEUW	Veracruz, Ver., Mexico	2400	ZBW2	Hong Kong	
6030	100	HP5B	Panama City, Panama	6095	...	ZGE	Kuala Lumpur, Fed. Malay States
	35000	OLR2B	Praha, Czechoslovakia	6096	...	...	Tananarive, Madagascar
	50	VE9BJ	St. John, N. B., Canada	6097	200	ZRJ	Johannesburg, Union of So. Africa
	30	VE9CA	Calgary, Alta., Canada	5000	ZRK	Capetown, Union of So. Africa	
	100	XEBQ	Mazatlan, Sin., Mexico	6100	35000	W3XAL	Bound Brook, N. J.
6040	25000	TPB16	Paris, France	10000	W9XF	Chicago, Ill.	
	20000	W1XAL	Boston, Mass.	1000	YUA	Belgrade, Jugoslavia	
	5000	W4XB	Miami, Fla.	...	...	Noumea, New Caledonia	
	10000	YDA	Tandjong Priok, Java, N. E. I.	6108	...	HJ6ABB	Manizales, Colombia
6042	150	HJ1ABG	Barranquilla, Colombia	6110	...	GSL	London, England
6044	...	ZP14	Villarrica, Paraguay	500	VUC	Calcutta, India	
6045	100	XETW	Tampico, Tams., Mexico	250	XEGW	Mexico City, D. F.	
				6115	35000	OLR2C	Praha, Czechoslovakia
				6120	10000	W2XE	New York, N. Y.

6122	25	FK8AA	Noumea, New Caledonia	6357	...	HRP1	San Pedro Sula, Honduras
6125	...	HP5H	Panama City, Panama	6360	250	YV1RH	Maracaibo, Venezuela
	...	KZIB	Manila, P. I.		...	YV5RF	Caracas, Venezuela
	...	LYZ	Kaunas, Lithuania	6375	...	YV5RF	Caracas, Venezuela
6128	100	OAX7A	Cuzco, Peru	6384	500	VP2LO	Baseterre, St. Kitts
6130	350	COCD	Havana, Cuba	6385	...	HI8J	Las Vegas, D. R.
	...	LKJ	Oslo, Norway	6400	...	YV5RH	Caracas, Venezuela
	500	VE9HX	Halifax, N. S.	6410	1000	TIPG	San Jose, Costa Rica
	100	XEUZ	Mexico City, D. F.	6416	...	YV6RC	Bolivar, Venezuela
6132	...	VP3BG	Georgetown, Brit. Guiana	6420	20	HI1S	Santiago de los Caballeros, D. R.
6137	300	CR7AA	Lourenco Marques, Port. E. Africa	6425	5000	W2XGB	Hicksville, N. Y.
6140	40000	W8XK	Pittsburgh, Pa.	100000	W3XL		Bound Brook, N. J.
6145	1000	HJ4ABE	Medellin, Colombia	6430	200	TGQA	Quezaltenango, Guat.
	25000	TPB14	Paris, France	6450	25	HI4V	San Francisco de Macoris, D. R.
6147	...	ZEB	Bulawayo, Southern Rhodesia	6465	...	YV3RD	Barquisimeto, Venezuel
6148	200	ZRD	Durban, U. of So. Africa	6485	...	HI1L	Santiago de los Caballeros, D. R.
6150	2000	CJRO	Winnipeg, Man.	6500	50	HIL	Ciudad Trujillo, D. R.
	100	HI5N	Moca, D. R.		...	YV1RM	Maracaibo, Venezuel
	300	VPB	Colombo, Ceylon		...	...	"Guardia Civil," Tetuan, Sp. Morocco
6158	...	YV5RD	Caracas, Venezuela	6510	...	YN1GG	Managua, Nicaragua
6165	...	...	Bizerte, Tunisia	6520	...	YV4RB	Valencia, Venezuela
6174	...	XEXA	Mexico City, D. F.	6545	200	YV6RB	Bolivar, Venezuela
6190	50	HI1A	Santiago de los Caballeros, D. R.	6550	500	TIRCC	San Jose, Costa Rica
6200	50	COKG	Santiago, Cuba	6555	25	HI4D	Trujillo, D. R.
6205	100	XEXS	Mexico City, D. F.	6565	...	HI5P	Puerto Plata, D. R.
	200	HI8Q	Ciudad Trujillo, D. R.	6575	...	HC1VT	Ambato, Ecuador
	150	YV1RI	Coro, Venezuela	6590	...	COCU	Havana, Cuba
	250	...	Saigon, French Indo-China	6600	25	HI6H	Ciudad Trujillo, D. R.
6210	200	TG2	Guatemala City, Guat.	6610	1000	YNLG	Managua, Nicaragua
6225	...	YV1RG	Valera, Venezuela	6622	2000	PRADO	Riobamba, Ecuador
6235	250	HRD	La Ceiba, Honduras	6630	200	HIT	Trujillo, D. R.
6243	740	HIN	Ciudad Trujillo, D. R.	6638	200	HC2RL	Guayaquil, Ecuador
6250	...	YV5RJ	Caracas, Venezuela	6675	18000	HBQ	Geneva, Switzerland
6270	1200	YV5RP	Caracas, Venezuela	6690	...	TIEP	San Jose, Costa Rica
6282	150	COHB	Sancti-Spiritus, Cuba	6727	1500	PMH	Bandoeng, Java, N. E. I.
6285	150	HIG	Ciudad Trujillo, D. R.	6730	...	HI3C	La Romana, D. R.
6295	400	OAX49	Lima, Peru	6780	150	HIH	San Pedro de Macoris, D. R.
6300	...	YV4RD	Maracay, Venezuela	6790	25	PZH	Paramaribo, Surinam
6310	100	HIZ	Ciudad Trujillo, D. R.	6800	25	HI7P	Ciudad Trujillo, D. R.
6312	1000	ZP14	Villarrica, Paraguay	6850	400	TIOW	Puerto Limon, Costa Rica
6330	...	COCW	Havana, Cuba	6996	500	EA9AH	Tetuan, Sp. Morocco
6335	200	OAX1A	Chiclayo, Peru	6090	200	FO8AA	Papeete, Tahiti
6340	500	HI1X	Trujillo, D. R.				

7000	60	EA1AV	San Sebastian, Spain	80000	PLV	Bandoeng, Java, N. E. I.	
7006	...	EAR4M	Madrid, Spain (Loyalist)	9437	5000	COCH	Havana, Cuba
7027	160	FET1O	Vitoria, Spain (Franco)	9445	...	HC2RA	Guayaquil, Ecuador
7070	75	EA1BO	Salamanca, Spain (Franco)	9470	150	PJC1	Willemstad, Curacao
7100	300	FET5	Burgos, Spain (Franco)	9480	20000	EAR	Madrid, Spain
7125	145	FET6	Palma de Mallorca, Spain (Franco)	9490	...	OAX5C	Ica, Peru
7147	40	FET	Las Palmas, Spain (Franco)	...	...	XTV	Canton, China
7168	145	FET6	Palma de Mallorca, Spain (Franco)	9500	...	HJ1ABE	Cartagena, Colombia
7177	1000	CR6AA	Jobito, Angola	5000	VK3ME		Melbourne, Australia
	200	EA2BA	Jaca, Spain (Franco)	10000	XEWV		Mexico City, D. F.
7200	20	EAME	Melilla, Spain (Franco)	...	...		Lahti, Finland
	75	EA1BH	Pentevedra, Spain (Franco)	9501	60000	PRF5	Rio de Janeiro, Brazil
	100	EA8AE	Las Palmas, Spain (Franco)	9503	...	...	Tananarive, Madagascar
7203	1000	EAJ8	San Sebastian, Spain (Franco)	9504	35000	OLR3B	Praha, Czecho- slovakia
7300	...	VIG	Port Moresby, Papua	9510	2500	CXA8	Colonia, Uruguay
7380	20000	XECR	Mexico City, D. F.	20000	GSB		London, England
7410	...	HJCB4	Quito, Ecuador	1000	HJU		Buenaventura, Colombia
	10000	YDA	Batavia, Java, N. E. I.	5000	HS8PJ		Bangkok, Siam
7500	100	XGOY	Kunming, China	100	...		Hanoi, French Indo-China
7540	...	RKI	Moscow, U. S. S. R.	9520	1000	HJ6ABH	Armenia, Colombia
7797	20000	HBP	Geneva, Switzerland	500	OAX4J		Lima, Peru
7854	150	HC2JSB	Guayaquil, Ecuador	6000	OZF		Copenhagen, Denmark
7870	...	HC1RB	Quito, Ecuador	25000	TPB13		Paris, France
7894	...	YSD	San Salvador, El Salvador	500	XEDQ		Guadalajara, Jal. Guadalajara, Jal., Mexico
8580	500	YNPR	Managua, Nicaragua	...	YSH		San Salvador, El Salvador
8640	...	HJ4ABU	Medellin, Colombia	9523	...	LYZ2	Kaunas, Lithuania
8665	2400	COJK	Camaguey, Cuba	5000	ZRH		Pretoria, U. of So. Africa
8820	1000	HCJB	Quito, Ecuador	9525	2500	BW3	Hong Kong
9330	...	COBZ	Havana, Cuba	9530	1000	LKC	Oslo, Norway
9100	...	COCA	Havana, Cuba	40000	W2XAF		Schenectady, N. Y.
9125	20000	HAT4	Budapest, Hungary	20000	W6XBE		Belmont, Calif.
9163	...	HC1GQ	Quito, Ecuador	400	ZHP		Singapore, St. Settlements
9200	...	COBX	Havana, Cuba	9535	20000	JZI	Tokyo, Japan
9250	...	HC2CW	Guayaquil, Ecuador	9536	200	VPD2	Suva, Fiji
9300	250	HIG	Ciudad Trujillo, D. R.	9540	50000	DJN	Berlin, Germany
	50	YNGU	Managua, Nicaragua	9550	35000	OLR3A	Praha, Czecho- slovakia
9345	...	HBL	Geneva, Switzerland	25000	TPB12		Paris, France
9350	...	HS8PJ	Bangkok, Siam	50000	W2XAD		Schenectady, N. Y.
	...	XTR	Canton, China	20	XEFT		Veracruz, Ver., Mexico
	...	...	Fort de France, Martinique	1000	YDB		Sourabaya, Java, N. E. I.
9415	...	PJC2	Willemstad, Curacao	9560	50000	DJZ	Berlin, Germany

0562	10000	OAX4T	Lima, Peru	10600	...	ZIK2	Belize, Brit.
0565	4500	VUB2	Bombay, India				Honduras
9570	1000	KZRM	Manila, P. I.	11000	1500	PLP	Bandoeng, Java, N. E. I.
	25000	TPB11	Paris, France				
	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	2000	SPD	Warsaw, Poland
9590	1000	HP5J	Panama City, Panama	11700	1000	CB1170	Santiago, Chile
	20000	PCJ	Huizen, Netherlands		300	HP5A	Panama City, Panama
	20000	VK2ME	Sydney, Australia		250	...	Saigon, French Indo-China
	5000	VK6ME	Perth, Australia	11705	500	SBP	Stockholm, Sweden
	10000	VUD2	Delhi, India	11710	...	YSM	San Salvador, El Salvador
	10000	W2XE	New York, N. Y.				
	10000	W3XAU	Philadelphia, Pa.	11713	...	TPA4	Paris, France
9595	18000	HBL	Geneva, Switzerland	11718	200	CR7BH	Lourenco Marques, Port. E. Africa
9600	...	RAN	Moscow, U. S. S. R.				
	1500	XEYU	Mexico City, D. R.	11720	2000	CJRX	Winnipeg, Man.
9606	5000	ZRK	Capetown, U. of So. Africa		25000	TPB9	Paris, France
				11730	24600	PHI	Huizen, Netherlands.
9618	750	HJ1ABP	Cartagena, Colombia		...	W1XAL	Boston, Mass.
9630	...	HJ7ABD	Bucaramanga, Colombia	11740	350	HP5L	David, Panama
				11750	20000	GSD	London, England.
9635	25000	2RO3	Rome, Italy		...	HVJ	Vatican City
9636	...	JFO	Itabushi, Taiwan	11760	35000	OLR4B	Praha, Czecho- slovakia
9640	2500	CXA8	Colonia, Uruguay		10000	TGWA	Guatemala City, Guat.
9645	30	HH3W	Port-au-Prince, Haiti		1000	XETA	Monterrey, N. L., Mexico
9650	2000	CS2WA	Lisbon, Portugal	11770	50000	DJD	Berlin, Germany
9660	5000	LRX	Buenos Aires, Argentina	11780	...	HH2X	Port-au-Prince, Haiti
					...	HP5G	Panama City, Panama
9670	500	TI4NRH	Heredia, Costa Rica	11790	20000	W1XAL	Boston, Mass.
9685	10000	TGWA	Guatemala City, Guat.	11795	...	DJO	Berlin, Germany
				11796	100	OAX5A	Ica, Peru
9690	5000	LRA	Buenos Aires, Argentina	11800	1000	COGF	Matanzas, Cuba
				11800	50000	JZJ	Tokyo, Japan
9700	200	...	Fort de France, Martinique	11805	...	OZG	Copenhagen, Denmark
				11810	25000	2RO4	Rome, Italy
9740	...	COCQ	Havana, Cuba	11820	...	GSN	London, England
9760	...	CSW3	Lisbon, Portugal		150	XEBR	Hermosillo, Son., Mexico
9775	...	COCM	Havana, Cuba	11830	10000	W2XE	New York, N. Y.
9830	20000	IRF	Rome, Italy		20000	W9XAA	Chicago, Ill.
9860	20000	EAR	Madrid, Spain (Loyalist)	11840	5000	CSW	Lisbon, Portugal
					...	KRM	Manila, P. I.
9950	...	COCU	Havana, Cuba		35000	OLR4A	Praha, Czecho- slovakia
9960	...	COBC	Havana, Cuba	11845	24000	TPB8	Paris, France
10220	12000	PSH	Rio de Janeiro, Brazil	11855	50000	DJP	Berlin, Germany
				11860	20000	GSE	London, England
10260	1500	PMN	Bandoeng, Java, N. E. I.		1000	YDB	Sourabaya, Java, N. E. I.
10290	5000	DZC	Berlin, Germany				
10330	11000	ORK	Brussels, Belgium				
10350	20000	LSX	Buenos Aires, Argentina				
10370	23000	EAJ43	Santa Cruz de Teneriffe, Canary Isl.				

- 11870 ... IQY Rome, Italy
40000 W8XK Pittsburgh, Pa.
- 11875 35000 OLR4C Praha, Czechoslovakia
- 11885 25000 TPB7 Paris, France
- 11895 ... HP5I Aquadulce, Panama
- 11900 ... CD1190 Valdivia, Chile
... LYZ3 Kaunas, Lithuania
35000 OLR4D Praha, Czechoslovakia
- 25000 TPA3 Paris, France
400 XEWI Mexico City, D. E.
- 11960 500 HI2X Ciudad Trujillo, D. R.
- 12000 20000 RNE Moscow, U. S. S. R.
- 12235 7500 TFJ Reykjavik, Iceland
- 12775 500 VP2LO Basseterre, St. Kitts
- 13635 10000 SPW Warsaw, Poland
- 14420 ... HC1JB Quito, Ecuador
- 14535 18000 HBJ Geneva, Switzerland
- 14920 1500 LZA Sofia, Bulgaria
- 15110 50000 DJL Praha, Czechoslovakia
- 15120 10000 HVJ Vatican City
- 15130 25000 TPB6 Paris, France
10000 W1XAL Boston, Mass.
- 15140 15000 GSF London, England
- 15150 3000 YDC Bandoeng, Java, N. E. I.
- 15155 500 SM5SX Stockholm, Sweden
- 15160 50000 JZK Tokyo, Japan
... VUD3 Delhi, India
10000 XEWV Mexico City, D. F.
- 15170 ... CXA14 Montevideo, Uruguay
10000 TGWA Guatemala City, Guat.
- 15180 ... GSO London, England
- 15200 8000 DJB Berlin, Germany
- 15210 40000 W8XK Pittsburgh, Pa.
- 15220 20000 PCJ2 Huizen, Netherlands
- 15230 35000 OLR5A Praha, Czechoslovakia
- 15240 25000 TPB5 Paris, France
- 15250 20000 W1XAL Boston, Mass.
- 15260 ... GSI London, England
- 15270 500 HI3X Ciudad Trujillo, D. R.
10000 W2XE New York, N. Y.
- 15280 50000 DJQ Berlin, Germany
- 15290 5000 LRU Buenos Aires, Argentina
- 15295 25000 TPB4 Paris, France
- 15300 ... LYZ4 Kaunas, Lithuania
- 15310 ... GSP London, England
- 15320 35000 OLR5B Praha, Czechoslovakia
- 15330 25000 W2XAD Schenectady, N. Y.
20000 W6XBE Belmont, Calif.
- 15340 50000 DJR Berlin, Germany
- 15370 20000 HAS3 Budapest, Hungary
- 17280 ... FZE8 Djibouti, Fr.
Somaliland
- 17760 50000 DJE Berlin, Germany
10000 W2XE New York, N. Y.
- 17765 25000 TPB3 Paris, France
- 17770 23600 PHI Huizen, Netherlands
- 17780 25000 TPB2 Paris, France
35000 W3XAL Bound Brook, N. J.
- 17790 15000 GSG London, England
- 21450 35000 OLR6A Praha, Czechoslovakia
- 21460 10000 W1XAL Boston, Mass.
- 21470 ... GSH London, England
- 21490 25000 TPB1 Paris, France
- 21500 50000 W2XAD Schenectady, N. Y.
- 21530 15000 GSJ London, England



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., Pittsburgh, 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	Best in EST	Best in CST	Best in MST	Best in PST
Paris	CSW	Paris	Rome	OAX4Z
CSW	SPW	London	Tokyo	EAR
Rome	SPD	Rome	HJ1ABB	HCJB
Tokyo	Paris	RKI	TGWA	ZGE
SPW	Tokyo	YV5RC	HCJB	XGW
RKI	ZIK2	VPD2	OAX4Z	Tokyo
London	EAQ	YDB	HJ1ABE	XTC
Praha	Berlin	Praha	EAR	VPD2
Berlin	Praha	Tokyo	XEDQ	VK3ME
YV5RC	RKI	HP5G	XEWI	VUD3
TGWA	Rome	HBO	HJ1ABG	VK6ME
SPD	London	HJ3ABX	HJ3ABD	XEXA
HP5G	TGWA	HH2S	XEXA	*
HJ3ABX	HP5G	LRX	CJRX	
HBO	HJ3ABX	PCJ	HJ3ABH	
TG2	HBO	TGWA	ZIK2	
EAQ	TG2	TG2	*	
VPD2	HH2S	Berlin		
HH2S	PCJ	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 trans-

mission. 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 W 1, 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 to 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 kcs: 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 am to 5 pm.

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

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.

ICC, 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.
- HJ1ABB, 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 broadcasting. 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 Lumpur, 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 heard 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); TI2FC (d); TI2FG (c); TI2IF (c); TI2LR (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, Rosenberg, Texas

South American Broadcasting Stations

570	CB57	5000	Santiago, Chile. Soc. Nacional de Agricultura
580	CC58	500	Temuco, Chile. Luis E. Brian, El Diario Austral
	PRC3	250	Pelotas, Brazil. Soc. Radio Pelotense
	PRG5	950	Santos, Brazil. Radio Atlantica
590	LS10	6000	Buenos Aires, Argentina. Radio Callao.
	PRG7	250	Jahu, Brazil. Radio Soc. Jahuense
600	PRH2	25000	Porto Alegre, Brazil. Soc. Radio Farrroupilha
610	CX4	1000	Montevideo, Uruguay. Direccion de Agronomia, Uruguay 821.
620	CB62	1000	Santiago, Chile. International Machinery Co., Edificio Mutual de la Armada
	LV3	2000	Cordoba, Argentina. "Radio Cordoba," San Martin 74
630	CA63	250	Iquique, Chile. Voz del Norte, Antonio Cajas, Cavancha
	LS3	5000	Buenos Aires, Arg. Radio Ultra, Cordoba 653
	PRD6	250	Piracicaba, Brazil. Radio Club de Piracicaba
640	CB64	1000	Vina del Mar, Chile. La Union de Recreo, Av. Portales 528
	CC64	100	Concepcion, Chile. Hucke y Cia., Ltda., Freire 799
650	CX6	2000	Montevideo, Uruguay. Estacion Oficial, Mercedes 823
670	LS4	7000	Buenos Aires, Arg. Radio Portena, Belgrano 1841
	PR47	500	Ribeirao Preto, Brazil. Rua Tiberica 26
	PRC5	2000	Belem, Brazil. Radio Club do Para

680	CB68	1000	Valparaiso, Chile. Metro, Renard y Garcia Tello
	HJN	500	Bogota, Colombia. Biblioteca Nacional
	PRC2	5000	Porto Alegre, Brazil. Radio Soc. Gaucha, Galeria Chaves
690	CD69	....	Valdivia, Chile. C. Kahler y Cia., Ltda., Casilla 642
	LV6	500	Mendoza, Arg. Radio Provincia de Mendoza
	PRC7	250	Bello Horizonte, Brazil. Radio Soc. Mineira
	PRD7	250	Sorocaba, Brazil. Radio Club Sorocabana
	....	250	Rio Preto, Brazil. Radio Rio Preto, S. A.
700	ZP15	....	Villarrica, Paraguay
710	LS1	5000	Buenos Aires, Arg. Radio Municipal, Teatro Colon
720	PRA8	25000	Pernambuco, Brazil. Radio Club do Pernambuco, Av. Cruz Cabuga 394
730	CB73	1000	Santiago, Chile. Ultimas Noticias, Compania 1258
	CX10	500	Montevideo, Uruguay. Radio Ariel, Cerrito 661
	LV1	1000	San Juan, Argentina. Radio Graffigna, Mitre 1115
740	PRA4	10000	San Salvador, Brazil. Radio Soc. da Bahia, Pavilhao Passeio Publico
750	LRA	10000	Buenos Aires, Arg. Radio del Estado, Correos y Telegrafos
760	CB76	10000	Valparaiso Chile. Coop. Vitalicia, Agustinas 1253, 9o piso
	PRA6	10000	Sao Paulo, Brazil, Radio Educadora Paulista, Rua Jose Bonifacio 12
770	CX12	1000	Montevideo, Uruguay. Radio Westinghouse, Olimar 1364
780	CB78	1000	Santiago, Chile. Cooperative Vitalicia, Agustinas 1253, 9o piso
	LT1	5000	Rosario, Arg. Radio Litoral, Cordoba 1169
790	LR10	10250	Buenos Aires, Arg. Radio Cultura, Florida 570
800	PRA2	1500	Rio de Janeiro, Brazil. Ministerio da Educacao
810	CX14	1000	Montevideo, Uruguay. El Espectador, Itda., Olimar 1364
820	CB82	1000	Santiago, Chile. El Diario Ilustrado, Moneda 1158
	LV7	1000	Tucuman, Arg. G. Acha Munoz y Cia., Mendoza 437
830	LR5	29000	Buenos Aires, Arg. Radio Excelsior, Maipu 462
840	CB84	1000	Valparaiso, Chile. Radio del Pacifico, Edificio Diario La Union
	CC84	100	Talcahuano, Chile. Radio Cultura, Av. Latorre s/n
	LT8	500	Rosario, Arg. Julio Blomberg, Sarmiento 958
	PRF9	5000	Sao Paulo, Brazil. S. Bandeirante de Radiodiffusao.
850	CX16	2000	Montevideo, Uruguay. Radio Carve, 18 de Julio 928
	OAX4A	10000	Lima, Peru. "Radio Nacional," Av. Petit Thouars 447
860	PRA3	2500	Rio de Janeiro, Brazil. Radio Club do Brasil, Rua Betancourt da Silva 21
870	LR6	26000	Buenos Aires, Arg. Radio Mitre, Santa Fe 2043
880	PR13	22000	Bello Horizonte, Brazil. Radio Inconfidencia de Minas Geraes
882	YV5RQ	....	Caracas, Venezuela. "La Voz de la Philco."
890	CB89	1000	Santiago, Chile. Otto Becker, Ahuamada 113
	CX18	1500	Montevideo, Uruguay. Radio Sport, Olimar 1364
	ZP9	1500	Asuncion, Paraguay.
900	CA90	100	Tocopilla, Chile. Hilda Guellar
	CB90	1000	Valparaiso, Chile. "El Mercurio," Casino Vina del Mar
	IU2	2000	Bahia Blanca, Arg. Radio Bahia Blanca
	PRB7	5000	Rio de Janeiro, Brazil. Radio Educadora do Brasil, Rua Senador Dantas 82
910	LR2	12000	Buenos Aires, Arg. Radio Argentina, Bolivar 1356
950	CB93	2500	Santiago, Chile. "Radio Hucke," Providencia 1022.
	CX20	1000	Montevideo, Uruguay. Radio Montecarlo, Palacio Salvo 7 piso
940	PRF4	10000	Rio de Janeiro, Brazil. Soc. Anonima Jornal do Brazil
950	LR3	31000	Buenos Aires, Arg. Radio Belgrano, Belgrano 1841
960	CB96	200	Coquimbo, Chile. Puerta Hermonas, Aldunate 1381
	CC96	100	Curico, Chile. Cervecera Curico, Alberto Guerra, Merced 11
	LV2	2000	Cordoba, Arg. Radio Central, San Lorenzo 339
	OAX4E	200	Lima, Peru. "Radio Goincocha," Jiron Ocona 158
	PRF3	5000	Sao Paulo, Brazil. Radio Difusora Sao Paulo.
	YV5RA	5000	Caracas, Venezuela. "Broadcasting Caracas," Apartado 2009
970	CB97	1000	Santiago, Chile. Soc. Industrial A. Maquinarias, Bolivar 1551
	CX22	500	Montevideo, Uruguay. Fada Radio, 18 de Julio 1092
974	HCBJ	1000	Quito, Ecuador. Clarence W. Jones, Casilla 691
980	PRE8	20000	Rio de Janeiro, Brazil. Soc. Radio Nacional, Rua Buenos Aires 120
	YV1RB	1000	San Cristobal, Venezuela. "La Voz del Tachira," Aptdo. 37
990	LR4	16000	Buenos Aires, Arg. Radio Splendid, Callao 1526
1000	HJ3ABH	2000	Bogota, Colombia. "La Voz de la Victor," Apartado 565
	OAX40	100	Lima, Peru. Gildred Corp., Baquijano 790
	PRB9	10000	Sao Paulo, Brazil. Radio Soc. Record, Praca da Republica 17
	ZP3	300	Asuncion, Paraguay.
1005	YV5RG	....	Caracas, Venezuela. "Ondas Populares."
1010	CB101	1000	Santiago, Chile. "Radio Mayo," Pasaje Matte 81
	CX24	1000	Montevideo, Uruguay. La Voz del Aire, 18 de Julio 928
1030	CD103	100	Magallanes, Chile. Ramon Verde Sanchez, Mexicana 936
	LR9	5000	Buenos Aires, Arg. Radio Fenix, Talcahuano 1186
1040	CP4	10000	La Paz, Bolivia. Carlos Lopez Vedela, Casilla 637
	HJ3ABZ	....	Bogota, Colombia
	PRG2	10000	Sao Paulo, Brazil. Radio Tupy Sao Paulo

1050	CX26	1500	Montevideo, Uruguay. Millan 2370
	HJ3ABX	....	Bogota, Colombia. The Voice of Colombia.
1060	CB106	5000	Santiago, Chile. Manual Casablanca, Goycolea 0147—Cisterna
	PR2	5000	Rio de Janeiro, Brazil. Soc. Radio Cruzeiro do Sul, Rua Mariz e Barros 276
1070	LR1	50000	Buenos Aires, Arg. Radio El Mundo, Maipu 555
1080	LT3	4500	Rosario, Arg. Radio Soc. Rural de Cerealistas, Pte. Roca 770
	OAX4F	100	Lima, Peru. F. W. Castellano y Hno., Union 650
	ZP7	700	Asuncion, Paraguay.
	....	10000	Joao Pessoa, Brazil. Governo do Estado de Parahyba
1090	CC109	100	Rancagua, Chile. "El Regional," Independencia 483
	CX28	1500	Montevideo, Uruguay. Edison Broadcasting, Convencion 1379
	PRD4	500	Araraquara, Brazil. Radio Cultura Araraquara, Av. Feijó 25
1100	HJ3ABD	50	Bogota, Colombia. Colombia Broadcasting, Apartado 509
	OAX4I	250	Lima, Peru. Radio International, S. A., Casilla 1166
	PRG9	20000	Sao Paulo, Brazil. Radio Excelsior
	YV5RE	....	Caracas, Venezuela. Ecos del Caribe, Aptdo. 963
1110	CB111	1000	Vina del Mar, Chile. Los Castanos, Av. Castanos 393
	CD111	100	Magallanes, Chile. "Radio Austral," Independencia s/n
	LS5	5000	Buenos Aires, Arg. Radio Rivadavia, Callao 1526
1120	CD112	100	Osorno, Chile. David Arriagada, Baquedano 715
	LV5	5000	San Juan, Argentina. Radio los Andes, G. Acha 362
	PRH8	5000	Rio de Janeiro, Brazil. Radio Ipanema
	YV1RF	1000	Maracaibo, Venezuela. Ondas del Lago, Apartado 261
1130	CB113	100	Quillota, Chile. Ricardo Mendez, Subida Baron 91
	CX30	1000	Montevideo, Uruguay. Radio Nacional, Porvenir 2384
	HJ7ABD	....	Bucaramanga, Colombia. V. R. Cadeno, Aptdo. 34
	ZPI	1000	Asuncion, Paraguay.
1140	CB114	5000	Santiago, Chile. Radio del Pacifico, Huerfanos 1153, of. 15
	CW25	250	Durazno, Uruguay. Artola, Evangelisti y Cia.
1150	H2ET	300	Guayaquil, Ecuador. El Telegrafo
	LR8	7000	Buenos Aires, Arg. Radio Paris, Cangallo 860
	HJ1ABJ	....	Santa Marta, Colombia.
	HJ1ABM	50	Cartagena, Colombia
	OAX4H	60	Lima, Peru. "Radio Davila," Filipinas 154
	YV4RG	....	Maracay, Venezuela. La Voz de Aragua.
1160	CB116	1000	Valparaiso, Chile. Oscar Cornejo Harker, Prat 773 of. 10.
	LT5	500	Resistencia, Arg. Radio Chaco, Av. 9 de Julio
	PRH3	5000	Sao Paulo, Brazil. Radio Piratininga
1170	CC117	100	Concepcion, Chile. Radio Zenith, Colo-Colo 265
	CX32	500	Montevideo, Uruguay. Radio Aguila, Plaza Libertad 1332
	PRC9	500	Campinas, Brazil. Radio Educadora de Campinas
	PRE5	500	Uberaba, Brazil. Radio Soc. Triangulo Mineiro
1180	CB118	5000	Santiago, Chile. Sazie Hnos., Ltda., Portal Fernandez Concha.
	CW34	250	Salto, Uruguay. Tribuna Saltena
1190	LS2	30000	Buenos Aires, Arg. Radio Prieto, Bolivar 1356
1200	CB120	1000	Valparaiso, Chile. Spencer y Vivado, Ltda., Ed. Diario La Union
	HJ3ABE	1000	Bogota, Colombia. Uribe y Moreno, Box 317
	LT9	500	Santa Fe, Arg. Radio Roca Soler
	OAX4B	350	Lima, Peru. Roberto Grellaud y Cia., Sen Abancay 915-23
	PRB6	1000	Sao Paulo, Brazil. Soc. Radio Cruzeiro do Sul, Largo da Misericordia 4
	YV5RB	....	Caracas, Venez. Radiodifusora Venezuela
1210	CD121	100	Osorno, Chile. Juan Bautista Onate, Eleuterio Ramirez 2930
	CX34	500	Montevideo, Uruguay. Radio Artigas, Millan 2370
	LV10	500	Mendoza, Arg. Radio de Cuyo
1220	PR9	25000	Rio de Janeiro, Brazil. Radio Soc. Mayrink Veiga, Rua Mayrink Veiga 17
1230	HJ4ABK	300	Medellin, Colombia.
	LS8	15000	Buenos Aires, Arg. Radio Stentor, Florida 8
1240	CB124	250	Valparaiso, Chile. Angel Garcia y Cia., Av. Brazil 2142
	LU7	2000	Bahia Blanca, Arg. Radio Gen. San Martin, Calle Sarmento 60
	LV14	500	La Rioja, Arg. Radio Provincia de La Rioja
1250	CB125	1000	Santiago Chile. Consorcio Esp. Seg. Huerfanos 830
	CX36	1000	Montevideo, Uruguay. Centenario Broadcasting, Olimar 1364
	HC2JSB	30	Guayaquil, Ecuador.
	OAX4L	60	Lima, Peru. Radio Miraflores, Calle Manco Capac 347
	YV1RK	250	Maracaibo, Venez. Radio Popular, Aptdo. 247
1260	CW36	250	Salto, Uruguay. Radio Popelka
	PR95	5000	Sao Paulo, Brazil. Rua 7 de Abril 3
1270	CA127	100	Antofagasta, Chile. Raquel Palma, Eduardo Lafont s/n
	CC127	100	Chillan, Chile. Rafael Barrios, Arauco entre Const-Roble
	LS9	6000	Buenos Aires, Arg. La Voz del Aire, Maipu 550
	YV3RA	..	Barquisimeto, Venez. La Voz de Lara
	ZP4	150	Asuncion, Paraguay.

1280	PRG3	25000	Rio de Janeiro, Brazil. Radio Tupy, S. A.
1290	CX38	500	Montevideo, Uruguay. Radio El Mundo
1300	CB130	1000	Santiago, Chile. Victor Wiedmaier, Av. J. D. Canas 565
	CPX	5000	La Paz, Bolivia
	CW38	250	Salto, Uruguay. Radio Lanza
	LT10	500	santa Fe, Arg. Universidad Nacional
	LU6	500	Mar del Plata, Arg. Radio Atlantica
	OAX4C	60	Lima, Peru. Difusora Universal S. A., Camana 372
	PRH6	3000	Bello Horizonte, Brazil, Radio Guarany
	YV1RA	150	Maracaibo, Venezuela. Ecos del Zulia, Apto. 37
1310	HJ1ABK	250	Barranquilla, Colombia. "La Voz de la Patria"
1310	LS11	10000	La Plata, Arg. Radio Prov. de Buenos Aires.
1320	CB132	1000	Valparaiso, Chile. David Wallace, Esmeralda 1111
	CD132	100	Valdivia, Chile. Carlos Kahler, Isle Teja
	PRD8	1000	Nittheroy, Brazil. Radio Club Flumenense
	PRD9	500	Sao Paulo, Brazil. Radio Soc. Sorocaba
	PRE9	2000	Fortaleza, Brazil. Ceara Radio Club
	PRH4	2000	Sao Paulo, Brazil, Soc. Diffusao Radiocultura
1330	CC133	100	Chillan, Chile. Miguel Arrau, 5 de Abril 587
	CX40	500	Montevideo, Uruguay. Radio Fenix, Chayos 4534.
	HJ1ABA	100	Barranquilla, Colombia. E. J. Pellet, Box 751.
1340	CB134	1000	Santiago, Chile. Radio Vestal, Gumercindo 885
	LT7	500	Corrientes, Arg. Radio Provincia de Corrientes
	PR6	5000	Sao Paulo, Brazil. Radio Cultura A Voz do Espaco
1350	LS6	6000	Buenos Aires, Arg. Radio del Pueblo, Cordoba 1580
	YV4RA	....	Valencia, Venezuela. La Voz de Carabobo
1360	CD136	100	Magallanes, Chile. Vog del Sur, Ines Diaz, Valdivia 250
	PRC8	5000	Rio de Janeiro, Brazil. Radio Soc. Guanabara, Rua 1 de Mayo 123
1363	HJ6ABN	....	Armenia, Colombia
1370	CC137	100	Temuco, Chile. Charles Kahler, Ed. Teatro Central 2o piso
	CW41	250	San Jose, Uruguay. Juan J. Arispuru y P. Bruscoleri
	CX42	500	Montevideo, Uruguay. Tribuna Sonora, Av. Italia 3646
	PRC4	250	Blumenau, Brazil. Radio Club do Blumenau
	PR12	250	Marila, Brazil. Radio Club de Marilia
	YV5RI	....	Caracas, Venezuela. La Voz de la Esfera, Apto. 1908
1380	CB138	5000	Santiago, Chile. "El Mercurio," Compania 1288
1390	CB139	1000	Valparaiso, Chile. Radio Ford, Av. Brazil esq. Av. Francia.
	LR11	500	La Plata, Arg. Radio Univ. Nacional de La Plata
1400	CB140	100	San Antonio, Chile. "Vina Santa Rita," Pob. Coop. Victoria, Casa 12
	HJ1ABR	....	Cartagena, Colombia. Apto. 47
	PRD5	5000	Rio de Janeiro, Brazil. Dpto. de Educacao da Prefeitura Largo da Carioca 5
	YV6RA	200	Bolivar, Venez. Ecos del Orinoco, Apto. 34
1405	OAX6B	60	Arequipa, Peru. Maximo J. Landa, Sucre 409
1410	CC141	100	Concepcion, Chile. Radio Phillips, Caupolican 370
	CW37	1000	Colonia, Uruguay. Bernotti Montellanos
	PRE7	5000	Sao Paulo, Brazil. Radio Cosmos, Praca Marechal Deodoro 52
1420	PRB2	2000	Curityba, Brazil. Radio Club Paranaense
1430	CC143	100	Talca, Chile. Radio Atlantida, Molino Sandoval
	PRE2	5000	Rio de Janeiro, Brazil. Soc. Radio Caiuty, Rua Conde de Bomfim 457
1440	CB144A	100	Santiago, Chile. "Nascimento," Av. Jose M. Infante 2290
	CB144B	100	Santiago, Chile. "Radio Copec," Ed. La Nacion 9o piso.
	CB144C	150	Santiago, Chile. "Radio Service," Luis Desmaras Los Deones, Camelias 2860
	LS7	10000	Buenos Aires, Argentina.
	PRF9	3000	Porto Alegre, Brazil. Empresa Radiodifusora Portoalegrense
	PRG6	500	Cruzeiro, Brazil. Soc. Radio Mantiqueira
	PRG8	250	Baura, Brazil. Fauru Radio Club
1450	CC145	100	Rancagua, Chile. "Colmena," Brasil 1174
	CX46	500	Montevideo, Uruguay. Radio America, Colonia, esquina Cuareim
	PRB4	1000	Santos, Brazil. Rua da Pedro II-16
	PRH5	250	Pocos de Caldas, Brazil. Radio Cultura.
1460	CW47A	250	San Jose, Uruguay. Broadcasting San Jose.
	PRF2	250	Ria Claro, Brazil. Radio Club do Rio Claro
	PRF7	250	Campos, Brazil. Radio Cultura de Campos
	ZP5	150	Asuncion, Paraguay.
1470	LT11	500	Parana, Argentina. Radio Provincia de Entre Rios
	PRE6	1000	Nittheroy, Brazil. Radio Soc. Fluminense
	PRG4	250	Jaboticabal, Brazil. Radio Club Jaboticabal
1480	PRB5	250	Franca, Brazil. Radio Club Hertz
	PRD3	1000	Petropolis, Brazil. Petropolis Radiodifusora
1490	CX48	500	Montevideo, Uruguay. Estacion Feminina, 18 de Julio 1333
1500	CB150	10000	Santiago, Chile. Markoff Hnos.
	HJ5ABE	....	Cali, Colombia. Radiodifusora Colombiana, S. A., Apto. 50

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	G Assigned this frequency but using another under Special Authorization.	Q Station not in use.
a Verifies for return postage.	H Assigned another frequency—using this one under Special Authorization.	R National "Red" Network.
b Verifies only occasionally.	J Assigned lower power but using this power under Special Authorization.	S Sundays only.
c Does not verify.	K Licensed for facsimile.	Sy Synchronized.
d Verifies—no postage required.	L Limited time.	X Has Permit to change power.
e Verifies for International Reply Coupon	M Mutual Network.	Y Has Permit to change location.
z No information available.	N National "Red" and "Blue" Networks.	Z Has Permit to change frequency.
Fourth Column Symbols	P Has Construction Permit only.	a-b-c Small letters show stations using same transmitter.
A Status in doubt—in Court.		1-2-3 Figures denote stations sharing time.
B National "Blue" Network.		... No information.
C Columbia Network.		
D Daytime only.		
F Canadian Network.		

540 kcs. (555.2m.)

CJRM	a	1000	F	Regina, Sask.	1819 Cornwall St.
ZNS	d	400	....	Nassau, Bahamas	Box 48

550 kcs. (545.1 m.)

CFNB	a	500	F(1)	Fredericton, N. B.	York St.
KFUO	a	500	2(1)	St. Louis, Mo.	801 DeMun St.
KFYR	a	1000	N(5)	Bismarck, N. Dak.	320 Broadway
KOAC	a	1000	....	Corvallis, Ore.	State Agricultural Col.
KSD	a	1000	2R(5)	St. Louis, Mo.	Pulitzer Pub. Co.
KTSA	a	1000	C(5)	San Antonio, Tex.	KTSA Brdcstg. Co.
WDEV	a	500	D	Waterbury, Vt.	Chas. B. Adams, Adm.
WGR	a	1000	C(5)	Buffalo, N. Y.	Rand Bldg.
WKRC	a	1000	C(5)	Cincinnati, Ohio	Hotel Alms
WSVA	a	500	D	Harrisonburg, Va.	Maia & Market Sts.
XEFC	a	100	....	Merida, Yuc.	Calle 59, No. 517

560 kcs. (535.4 m.)

KFDM	a	500	N(1)	Beaumont, Texas	Box 2950
KLZ	a	1000	C(5)	Denver, Colo.	Shirley-Savoy Hotel
KSFO	a	1000	C(5)	San Francisco, Calif.	Russ Bldg.
KWTO	a	5000	D	Springfield, Mo.	St. Louis and Kimbrough
WFIL	a	1000	BMX	Philadelphia, Pa.	638 Pub. Ledger Bldg.
WIND	a	1000	(5)	Gary, Ind.	504 Broadway
WIS	a	1000	N(5)	Columbia, S. C.	1811 Main St.
WQAM	a	1000	C	Miami, Fla.	327 N. E. First Ave.

570 kcs. (526 m.)

CMCY	a	10000	....	Havana, Cuba	De los Presidentes 215
KGKO	a	1000	B(5)	Ft. Worth, Texas	Ft. Worth Star-Telegram
KMTR	a	1000	....	Los Angeles, Calif.	915 N. Formosa Ave.
KVI	a	1000	C(5)	Tacoma, Wash.	Rust Bldg.
WKBN	a	500	IC	Youngstown, Ohio	17 N. Champion St.
WMCA	a	1000	....	New York, N. Y.	1697 Broadway
WNAX	a	1000	C(5)	Yankton, S. Dak.	2nd and Capitol
WOSU	a	750	I(1)	Columbus, Ohio	Ohio State University
WSYR	a	1000	Ba	Syracuse, N. Y.	315 Starret-Syracuse Bldg.
WSYU	a	1000	Qa	Syracuse, N. Y.	315 Starret-Syracuse Bldg.
WWNC	a	1000	N	Asheville, N. C.	Citizen-Times Co., Inc.

580 kcs. (516.9 m.)

CFPR	a	50	....	Prince Rupert, B. C.	Box 132
CHRC	a	100	....	Quebec, P. Q.	Victoria Hotel
CKCL	a	100	F	Toronto, Ont.	444 University Ave.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CKUA	a	500	....	Edmonton, Alta.	University of Alta.
KMJ	a	1000	N	Fresno, Calif.	Van Ness & Calaveras
KSAC	a	500	2(1)	Maahattan, Kans.	State College
WCHS	a	500	C(1)	Charleston, W. Va.	223 1/2 Capitol St.
WBDO	a	1000	C(5)	Orlando, Fla.	563 N. Orange Ave.
WIBW	a	1000	C2(5)	Topeka, Kans.	11th & Topeka Blvd.
WILL	a	1000	DX	Urbana, Ill.	University of Ill.
WTAG	a	1000	R	Worcester, Mass.	20 Franklin St.
XELO	a	10000	....	Tijuana, B. Cfa.	Box 6, San Diego, Calif.
XEMU	z	250	....	Piedras Negras, Coah.	.....

590 kcs. (508.2 m.)

KHQ	a	1000	R(5)	Spokane, Wash.	Sprague & Post
WEEI	a	1000	C(5)	Boston, Mass.	CBS, Inc.
WKZO	a	1000	BDX	Kalamazoo, Mich.	Burdick Hotel
WOW	a	1000	R(5)	Omaha, Nebr.	4th and Farnum

600 kcs. (499.7 m.)

CFCF	a	500	BF	Montreal, P. Q.	1231 St. Catherine St. W.
CJOR	a	500	....	Vancouver, B. C.	846 Howe St.
CMQ	a	25000	....	Havana, Cuba	Montey Prado
FQN	a	250	609	St. Pierre, Miquelon	Radio Club St. Pierrais
KFSD	a	1000	B	San Diego, Calif.	U. S. Grant Hotel
WCAO	a	1000	C	Baltimore, Md.	811 W. Lanvale
WICC	a	500	BM(1)	Bridgeport, Conn.	Stratfield Hotel
WMT	a	1000	BM(5)	Cedar Rapids, Iowa	Hotel Montrose
WREC	a	1000	C(5)	Memphis, Tenn.	Hotel Peabody
XEOJ	z	....	....	....	....

610 kcs. (491.5 m.)

KFAR	z	1000	P	Fairbanks, Alaska	
KFRC	c	1000	M(5)	San Francisco, Calif.	1000 Van Ness Ave.
WCLE	a	500	DM	Cleveland, Ohio	1224 Huron Road
WDAF	a	1000	R(5)	Kansas City, Mo.	1729 Grand Ave.
WIOD	a	1000	Na	Miami, Fla.	Biscayne Blvd.
WIP	a	1000	....	Philadelphia, Pa.	35 S. Ninth St.
WMBF	a	1000	Qa	Miami, Fla.	Biscayne Blvd.
XEXM	z	500	.2	Mexico City, D. F.	Argentina y L. G.
XEYO	z	500	.2	Mexico City, D. F.	5 de Mayo 19

620 kcs. (483.6 m.)

KGW	a	1000	R(5)	Portland, Ore.	325 Adler St.
KTAR	a	1000	N	Phoenix, Ariz.	711 Heard Bdg.
KWFT	z	250	(1)P	Wichita Falls, Tex.	
TIPG	z	2000	625	San Jose, Costa Rica	
WFLA	a	1000	Na(5)	Tampa, Fla.	Tarr Bldg.
WHJB	a	250	CD	Greensburg, Pa.	Penn Albert Hotel
WLBZ	a	500	CM(1)	Bangor, Maine	100 Main St.
WSUN	a	1000	Na(5)	St. Petersburg, Fla.	Recreation Pier
WTMJ	a	1000	N(5)	Milwaukee, Wis.	333 W. State St.

630 kcs. (475.9 m.)

CFCO	a	100	F	Chatham, Ont.	Wm. Pitt Hotel
CFCY	a	1000	F	Charlottetown, P.E.I.	Canadian Nat'l Hotel
CJRC	a	500	F(1)	Winnipeg, Man.	Royal Alexandra Hotel
CKOV	a	100	F	Kelowna, B. C.	Water St. & Mill Ave.
CMCD	a	250	....	Havana, Cuba	Calle G y 25, Vedado
KFRU	a	500	1(1)	Columbia, Mo.	9th and Elm Sts.
KGFX	a	200	D	Pierre, S. Dak.	Box 573
WGBF	a	500	NE(1)	Evansville, Ind.	519 Vine St.
WMAL	a	250	B(.5)	Washington, D. C.	National Press Bldg.
WPRO	a	500	C(1)	Providence, R. I.	15 Chestnut
XEZ	z	500	....	Merida, Yuc.	Av. Colon

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

640 kcs. (468.5 m.)

KFI	a	50000	R	Los Angeles, Calif.	1000 S. Hope St.
WGAN	z	500	DP	Portland, Me.	Port. Brdctg. System
WHKC	a	500	ML	Columbus, Ohio	22 E. Gay St.
WOI	a	5000	D	Ames, Iowa	College of Agriculture
XEBX	z	250	....	Sabinas, Coah.	Domicilio conocido
YSS	a	500	....	San Salvador, E. S.	.....

650 kcs. (461.3 m.)

KIRO	z	250	GQ	Seattle, Wash.	66 Cobb Bldg.
TIX	z	1000	....	San Jose, Costa Rica	
WSM	a	50000	KMN	Nashville, Tenn.	National Bldg.

660 kcs. (454.3 m.)

WAAW	a	500	D	Omaha, Nebr.	19th and Harney
WEAF	a	50000	R	New York, N. Y.	30 Rockefeller Plaza
XEAL	z	1000	....	Mexico City, D. F.	Apartado 1903
XEAO	a	250	....	Mexicali, B. Cfa.	Altamirano 156

670 kcs. (447.5 m.)

WMAQ	a	50000	R	Chicago, Ill.	Merchandise Mart
------	---	-------	---	---------------	------------------

680 kcs. (440.9 m.)

CMBQ	z	5000	P	Havana, Cuba	Palacio del Centro Gallego
CMCG	a	150	....	Havana, Cuba	Calle Malecon 340
KFEQ	a	2500	D	St. Joseph, Mo.	Schneider Bldg.
KPO	a	50000	R	San Francisco, Calif.	111 Sutter St.
VAS	a	2000	685	Glace Bay, N. S.	Canadian Marconi Co.
VOWR	c	500	681	St. John's, Nfld.	Box 157
WLAW	a	1000	D	Lawrence, Mass.	278 Essex St.
WPTF	a	5000	N	Raleigh, N. C.	324 Fayetteville St.

690 kcs. (434.5 m.)

CFRB	a	10000	C	Toronto, Ont.	622 Fleet St.
CJCF	a	100	F	Calgary, Alta.	124 - 7th Ave., W.
XET	a	5000	....	Monterrey, N. L.	Apartado 203

700 kcs. (428.3 m.)

WLW	a	500000	JKMN	Cincinnati, Ohio	1329 Arlington St.
-----	---	--------	------	------------------	--------------------

710 kcs. (422.3 m.)

KIRO	a	1000	CHJ	Seattle, Wash.	66 Cobb Bldg.
KMPC	a	500	L	Beverly Hills, Calif.	9631 Wilshire Blvd.
WOR	a	50000	KM	Newark, N. J.	147- Market St.

720 kcs. (416.4 m.)

CMK	a	250	....	Havana, Cuba	Aptdo. 770
WGN	a	50000	KM	Chicago, Ill.	441 N. Michigan Ave.
XEH	a	250	....	Monterrey, N. L.	Padre Mier 215

730 kcs. (410.7 m.)

CFPL	a	100	F	London, Ont.	Richmond St.
CJCA	a	1000	F	Edmonton, Alta.	10122 - 100 "A" St.
CKAC	a	5000	C	Montreal, P. Q.	980 St. Catherine's, W.
CKPR	a	100	F	Fort William, Ont.	104½ S. May St.
CMCL	z	10000	P	Havana, Cuba	Radio City
XEPN	a	100000	....	Piedras Negras, Coah.	Box 360
XERB	a	100000	....	Rosarito Beach, B. C.	.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

740 kcs. (405.2 m.)

KMMJ	a	1000	D	Clay Center, Nebr.	KMMJ, Inc.
KTRB	a	250	D	Modesto, Calif.	Box 405
WHEB	a	250	D	Portsmouth, N. H.	Box 522
WSB	a	50000	R	Atlanta, Ga.	Biltmore Hotel

750 kcs. (399.8 m.)

CMBL	z	500	....	Havana, Cuba	Calle 25 No. 445
KGU	a	2500	LN	Honolulu, Hawaii	Advertiser Square
WJR	a	50000	C	Detroit, Mich.	Fisher Bldg.
XEAA	a	200	....	Mexicali, B. Cfa.	Box 22, Calexico, Calif.
XEAM	z	25	....	Matamoros, Tams.	Morelos y 5ta.

760 kcs. (394.5 m.)

KXA	a	250	(.5) X	Seattle, Wash.	312 Bigelow Bldg.
WBAL	a	2500	BMSy	Baltimore, Md.	Lexington Bldg.
WCAL	a	1000	2(5)	Northfield, Minn.	St. Olaf College
WEW	a	1000	D	St. Louis, Mo.	221 N. Grand Blvd.
WJZ	a	50000	BSy	New York, N. Y.	30 Rockefeller Plaza
WLB	a	1000	2(5)	Minneapolis, Minn.	University of Minn.
XEOK	a	2500	....	Tijuana, B. Cfa.	Calle 5ta, 312

770 kcs. (389.4 m.)

CMBF	z	5000	....	Havana, Cuba	Edif. Metropolitana 732
KFAB	a	10000	CSyXZ	Lincoln, Nebr.	Hotel Lincoln
WBBM	a	50000	CSy	Chicago, Ill.	410 N. Michigan Ave.

780 kcs. (384.4 m.)

CHWK	b	100	F	Chilliwack, B. C.	Box 507
CKSO	a	1000	F	Sudbury, Ont.	Grand Theater Bldg.
KEHE	a	1000	(5)	Los Angeles, Calif.	214 S. Vermont Ave.
KFDY	a	1000	D	Brookings, S. Dak.	Box L
KFQD	c	250	....	Anchorage, Alaska	411 Fourth Ave.
KGHL	a	1000	N(5)	Billings, Mont.	5th and Broadway
KWLK	z	250	DP	Longview, Wash.	Twin City Brcdstg. Corp.
WEAN	a	1000	BM(5)	Providence, R. I.	New Crown Hotel
WMC	a	1000	R(5)	Memphis, Tenn.	Hotel Gayoso
WPIC	z	250	DP	Sharon, Pa.	Sharon Herald Pub. Co.
WTAR	a	1000	N	Norfolk, Va.	Bank of Commerce Bldg.
XEN	a	1000	...	Mexico City, D. F.	Venustiano Carranza 30

790 kcs. (379.5 m.)

CMGH	a	250	...	Matanzas, Cuba	Box 87
KGO	a	7500	B	San Francisco, Calif.	111 Sutter St.
KOAM	z	1000	DN	Pittsburg, Kans.	404 Commerce Bldg.
WGY	a	50000	R	Schenectady, N. Y.	1 River Road

800 kcs. (374.8 m.)

HIX	a	800	....	Ciudad Trujillo, D.R.	J. R. Saladin
WBAP	a	50000	Na	Fort Worth, Tex.	Carter Publications, Inc.
WFAA	a	50000	Na	Dallas, Texas	Baker Hotel
WTBO	a	250	D	Cumberland, Md.	Commercial Bank Bldg.

810 kcs. (370.2 m.)

CMCF	a	5000	....	Havana, Cuba	Paseo de Marti 9
WCCO	a	50000	C	Minneapolis, Minn.	Nicollet Hotel
WNYC	a	1000	D	New York, N. Y.	Centre and Duane Sts.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XEBZ	a	100	....	Mexico City, D. F.	Flora Av Chapultepec
XEDF	a	100	....	Nuevo Laredo, Tams.	Gral. Gonzalez 3006

820 kcs. (365.6 m.)

CMHW	a	100	....	Santa Clara, Cuba	Marta Abreu 2
WHAS	a	50000	C	Louisville, Ky.	300 W. Liberty St.
XEBG	z	1000	....	Tijuana, B. Cfa.	Av. "E" 268

830 kcs. (361.2 m.)

CMJX	a	500	....	Camaguey, Cuba	Box 23
KOA	a	50000	R	Denver, Colo.	1625 California St.
WEEU	a	1000	D	Reading, Pa.	Berks Brcdstg. Co.
WHDH	a	1000	L	Boston, Mass.	62 Boylston
WRUF	a	5000	L	Gainesville, Fla.	University of Fla.

840 kcs. (356.9 m.)

CBL	a	50000	F	Toronto, Ont.	805 Davenport Rd.
CFQC	a	1000	F	Saskatoon, Sask.	216 First Ave., N.
VOGY	a	400	....	St. Johns, Nfld.	Newfoundland Hotel
XERA	a	250000	....	Villa Acuna, Coah.	Brinkley Hosp., Del Rio, Texas

850 kcs. (352.7 m.)

CMCM	a	250	....	Havana, Cuba	Apartado 33
KIEV	a	250	D	Glendale, Calif.	Cannon System, Ltd.
KWKH	z	1000	GQ	Shreveport, La.	P. O. Box 17
WESG	a	1000	CDH	Elmira, N. Y.	Mark Twain Hotel
WKAR	a	1000	DX	E. Lansing, Mich.	Mich. State College
WWL	a	10000	CX	New Orleans, La.	Roosevelt Hotel

860 kcs. (348.6 m.)

WABC	a	50000	Ca	New York, N. Y.	485 Madison Ave.
WBOQ	a	50000	Qa	New York, N. Y.	485 Madison Ave.
WHB	a	1000	DM	Kansas City, Mo.	Scarritt Bldg.
XEMO	a	5000	....	Tijuana, B. Cfa.	Box 202, San Diego, Cal.
XENC	z	50	....	Mexico City, D. F.	Esabel la Catolica, Desp. 3

870 kcs. (344.6 m.)

WENR	a	50000	Ba	Chicago, Ill.	Merchandise Mart
WLS	a	50000	Ba	Chicago, Ill.	1230 Washington Blvd.
XEFB	a	200	....	Monterrey, N. L.	5 de Mayo Ote. 112
XEJW	z	500	....	Mexico City, D. F.	San Juan de Letran 81

880 kcs. (340.7 m.)

CBO	a	1000	F	Ottawa, Ont.	Chateau Laurier Hotel
CFJC	a	1000	F	Kamloops, B. C.	Wilcox-Hall Bldg.
CMW	a	1400	X	Havana, Cuba	Paseo de Marti 105
KFKA	a	500	2M(1)	Greeley, Colo.	Box 735
KLX	a	1000	....	Oakland, Calif.	Tribune Bldg. Co.
KPOF	a	1000	2	Denver, Colo.	1845 Champa St.
WCOC	a	1000	C	Meridian, Miss.	Box 603
WGBI	a	500	C1(1)	Scranton, Pa.	1000 Wyoming Ave.
WQAN	a	500	1(1)	Scranton, Pa.	149 Penn Ave.
WRNL	a	500	DX	Richmond, Va.	4th and Grace Sts.
WSUI	a	500	(1)	Iowa City, Iowa	University of Iowa

890 kcs. (336.9 m.)

KARK	a	500	N(1)	Little Rock, Ark.	Nat'l Standard Bldg.
KFNF	a	500	2X(1)	Shenandoah, Iowa	407 Sycamore St.
KFPY	a	1000	C(5)	Spokane, Wash.	Symons Bldg.
KUSD	a	500	2	Vermillion, S. Dak.	University of S. Dak.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WBAA	a	500	(1)	W. Lafayette, Ind.	Purdue University
WGST	a	1000	C(5)	Atlanta, Ga.	Ansley Hotel
WJAR	a	1000	R(5)	Providence, R. I.	Weybossett St.
WMMN	a	500	CX(1)	Fairmont, W. Va.	Monongahela Valley Brdcstg. Co.
XEK	a	100	....	Mexico City, D. F.	Jalapa No. 51
XEW	a	50000	....	Mexico City, D. F.	Box 2516

900 kcs. (333.1 m.)

KGBU	a	500	X	Ketchikan, Alaska	107-111 Front St.
KHJ	a	1000	M(5)	Los Angeles, Calif.	7th and Bixel Sts.
KSEI	a	250	N(1)	Pocatello, Idaho	141 S. 6th St.
WBEN	a	1000	R(5)	Buffalo, N. Y.	Hotel Statler
WELI	a	500	D	New Haven, Conn.	City Brdcstg. Corp.
WFMD	a	500	D	Frederick, Md.	Francis Scott Key Hotel
WJAX	a	1000	N(5)	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
WTAD	a	1000	D	Quincy, Ill.	510 E. Main

910 kcs. (329.6 m.)

CBF	a	50000	FN	Montreal, P. Q.	1231 St. Catherine, W.
CJAT	a	1000	F	Trail, B. C.	Box 1959
CKY	a	15000	F	Winnipeg, Man.	Sherbrooke St.
XENT	a	150000	....	Nuevo Laredo, Tams.	Box 410, Laredo, Tex.

920 kcs. (325.9 m.)

CMX	a	1000	X	Havana, Cuba	Apartado 32
KFL	a	500	Ma	Denver, Colo.	Albany Hotel
KOMO	a	1000	R(5)	Seattle, Wash.	Skinner Bldg.
KPRC	a	1000	R(5)	Houston, Texas	Lamar Hotel
KVOD	a	500	Ba	Denver, Colo.	Continental Oil Bldg.
WAAF	a	1000	D	Chicago, Ill.	Palmer House
WORL	a	500	D	Boston, Mass.	Brdcstg. Serv. Org.
WPEN	a	1000	....	Philadelphia, Pa.	22nd and Walnut Sts.
WRAX	a	1000	Q	Philadelphia, Pa.	217 S. Broad St.
WSPA	a	1000	D	Spartanburg, S. C.	Ravenel & Avont Sts.
WWJ	a	5000	R	Detroit, Mich.	616 Lafayette Blvd.

930 kcs. (322.4 m.)

CFAC	a	1000	F	Calgary, Alta.	1006 Southam Bldg.
CFCH	a	100	F	North Bay, Ont.	Northern Brdc. Co.
CFLC	a	100	....	Prescott, Ont.	307 George St.
CHNS	a	1000	F	Halifax, N. S.	Lord Nelson Hotel
CKPC	a	100	F	Brantford, Ont.	Arcade Bldg.
KMA	a	1000	B(5)	Shenandoah, Iowa	Earl E. May Co.
KROW	a	1000	....	Oakland, Calif.	464 - 19th St.
WBRC	a	1000	R(5)	Birmingham, Ala.	Bankhead Hotel
WDBJ	a	1000	C(5)	Roanoke, Va.	Box 150
XEBH	a	500	....	Hermosillo, Son.	Apartado 68

940 kcs. (319 m.)

KOIN	a	1000	C(5)	Portland, Ore.	New Heathman Hotel
WAAT	a	500	D	Jersey City, N. J.	50 Journal Sq.
WAVE	a	1000	N	Louisville, Ky.	1525 Brown Hotel
WCSE	a	1000	R(2.5)	Portland, Me.	The Eastland
WDAY	a	1000	N(5)	Fargo, N. Dak.	118 Broadway
WHA	a	5000	D	Madison, Wis.	University of Wis.
WICA	a	250	D	Ashtabula, Ohio	221 Center St.
XEFO	a	5000	....	Mexico City, D. F.	.....

950 kcs. (315.6 m.)

CJOC	a	100	F	Lethbridge, Alta.	Marquis Hotel
------	---	-----	---	-------------------	---------------

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CMBC	z	150	...	Havana, Cuba	Apartado 132
CRCK	a	1000	F	Quebec, P. Q.	Chateau Frontenac Hotel
KFWB	a	1000	(5)	Hollywood, Calif.	5833 Fernwood Ave.
KMBC	a	1000	C(5)	Kansas City, Mo.	Pickwick Hotel
WHAL	z	500	DP	Saginaw, Mich.	Gross & Shields
WRC	a	1000	R(5)	Washington, D. C.	Nat'l Press Bldg.

960 kcs. (312.3 m.)

CFRN	a	100	F	Edmonton, Alta.	C. P. R. Bldg.
CHNC	a	1000	F	New Carlisle, P. Q.	Box 101
CMKS	z	60	....	Guantanamo, Cuba	Edificio Diaz
CRCY	c	100	F	Toronto, Ont.	805 Davenport Road
XEAW	c	100000	...	Reynosa, Tams.	Box 948; McAllen, Tex.

970 kcs. (309.1 m.)

CMBY	z	200	....	Havana, Cuba	Calle Infanta 132
KJR	a	5000	B	Seattle, Wash.	Skinner Bldg.
WCFL	a	5000	N	Chicago, Ill.	666 Lake Shore Drive
WIBG	a	100	D	Glenside, Pa.	Seaboard Brdctg. Corp.

980 kcs. (306 m.)

KDKA	b	50000	B	Pittsburgh, Pa.	Grant Bldg.
XEAC	a	1000	....	Tijuana, B. Cfa.	Av. Mexico 12
XEFE	z	250	Z	Nuevo Laredo, Tams.	Gonzales y Riva Palacio

990 kcs. (302.8 m.)

CMKL	z	60	....	Bayamo, Cuba	Céspedes 26
WBZ	a	50000	BSy	Boston, Mass.	Hotel Bradford
WBZA	a	1000	BSy	Springfield, Mass.	Hotel Kimball
XEAF	a	750	....	Nogales, Son.	Hotel Central
XES	a	250	....	Tampico, Tams.	Box 309

1000 kcs. (299.8 m.)

CMBZ	a	500	X(1)	Havana, Cuba	Apartado 866
KFVD	a	1000	L	Los Angeles, Calif.	Standard Brdctg. Co.
VOCM	z	200	1006	St. John's, Nfld.	St. John's Eve. Telegram
WHO	a	50000	KR	Des Moines, Iowa	914 Walnut St.
XEBI	a	25	....	Aguascalientes, Ags.	Primo Verdad 14

1010 kcs. (296.9 m.)

CHML	a	100	F	Hamilton, Ont.	Piggott Bldg.
CKCD	a	100	1	Vancouver, B. C.	198 Hastings St., W.
CKCK	a	1000	F	Regina, Sask.	1853 Hamilton St.
CKCO	a	100	F	Ottawa, Ont.	272 Somerset St., W.
CKIC	a	50	....	Wolfville, N. S.	Acadia University
CKWX	a	100	1	Vancouver, B. C.	801 W. Georgia St.
CMJA	a	250	....	Camaguey, Cuba	Box 64
KGGF	a	1000	2M	Coffeyville, Kans.	Journal Bldg.
KQW	a	1000	M	San Jose, Calif.	87 E. San Antonio St.
WHN	a	1000	(5)	New York, N. Y.	1540 Broadway
WNAD	a	1000	2	Norman, Okla.	University of Okla.
WNOX	a	1000	C(5)	Knoxville, Tenn.	Hotel Johnson
XEFQ	a	50	....	Cananea, Son.	Sonora 97
XEU	a	250	....	Veracruz, Ver.	Independencia 98

1020 kcs. (293.9 m.)

KYW	a	10000	R	Philadelphia, Pa.	1622 Chestnut St.
WDZ	a	250	D	Tuscola, Ill.	WDZ Brdctg. Co.
XEJ	a	1000	....	Juarez, Chih.	Av. Lerdo 309

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1030 kcs. (291.1 m.)

CFCN	a	10000	...	Calgary, Alta.	Central Trust Bldg.
CJBR	z	1000	F	Rimouski, P. Q.	J. A. Brillant
CKLW	a	5000	FM	Windsor, Ont.	Guaranty Trust Bldg.
CMCK	a	5000	....	Havana, Cuba	San Miguel 86
XEB	a	10000	....	Mexico City, D. F.	Apartado 79-44

1040 kcs. (288.3 m.)

KRI.D	a	10000	CX	Dallas, Texas	Adolphus Hotel
KTHS	a	1000	GQ	Hot Springs, Ark.	P. O. Box 86
KWJJ	a	500	D	Merced, Calif.	622 Salmon St.
KYOS	b	250	H	Portland, Ore.	Merced Star Pub. Co.
WESG	z	1000	GQ	Elmira, N. Y.	Mark Twain Hotel
WTIC	a	5000	R	Hartford, Conn.	26 Grove St.

1050 kcs. (285.5 m.)

CBM	a	5000	FR	Montreal, P. Q.	1231 St. Catherines W.
CMKD	a	250	...	Santiago, Cuba	Box 23
HIT	z	50	...	Ciudad Trujillo, D.R.	Apartado 1105
KFBI	a	5000	L	Abilene, Kans.	Box 345
KNX	a	5000	C	Los Angeles, Calif.	CBS, Inc.
WEAU	z	1000	D	Eau Claire, Wis.	Central Brdctsg. Co.
WGVA	z	1000	D	Indianapolis, Ind.	Indiana Brdctsg. Corp.

1060 kcs. (282.8 m.)

KTHS	z	1000	HN	Hot Springs, Ark.	Box 86
KWJJ	z	500	GQ	Portland, Ore.	622 Salmon St.
VOAC	z	40	1065	St. John's, Nfld.	.....
WBAL	a	10000	BHM	Baltimore, Md.	Lexington Bldg.
WJAG	a	1000	DH	Norfolk, Nebr.	Norfolk Daily News
W3XJ	z	100	P	College Park, Md.	McNary & Chambers

1070 kcs. (280.2 m.)

CMBX	a	150	....	Havana, Cuba	San Miguel 194-altos
CMHA	z	50	....	Sagua la Grande, Cuba	Carrillo No. 31
KJBS	a	500	L	San Francisco, Calif.	1380 Bush St.
WCAZ	a	100	D	Carthage, Ill.	502 Wabash Ave.
WTAM	a	5000	R	Cleveland, Ohio	1367 E. 6th St.

1080 kcs. (277.6 m.)

CMJQ	z	200	....	Camaguey, Cuba	.....
WBT	a	50000	C	Charlotte, N. C.	Wilder Bldg.
WCBD	a	5000	1L	Chicago, Ill.	128 N. Pulaski Road
WMBI	a	5000	1L	Chicago, Ill.	153 Institute Place
XEBA	z	20	....	Guzman, Jal.	Independencia 32
XEBK	a	100	....	Nuevo Laredo, Tams.	Bravo y Guerrero
XEDP	a	500	....	Mexico City, D. F.	Bucareli 12

1090 kcs. (275.1 m.)

HIN	a	740	....	Ciudad Trujillo, D.R.	Frank Hatton
KMOX	a	5000	C	St. Louis, Mo.	Mart Bldg.

1100 kcs. (272.6 m.)

CBR	a	5000	F	Vancouver, B. C.	C.N.R. Station Bldg.
KGDM	a	1000	DM	Stockton, Calif.	42 S. California St.
KWKH	a	10000	CH	Shreveport, La.	Box 17
WBIL	a	5000	1	New York, N. Y.	132 W. 43rd St.
WPG	a	5000	C1	Atlantic City, N. J.	Convention Hall
XEL	z	250	....	Mexico City, D. F.	Plaza de San Juan 15

1110 kcs. (270.1 m.)

CMCJ	a	500	X	Havana, Cuba	Estevez 4
------	---	-----	---	--------------	-----------

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KSOO	a	5000	IN	Sioux Falls, S. Dak.	Carpenter Hotel
WRVA	a	50000	CM	Richmond, Va.	Hotel Richmond

1120 kcs. (267.7 m.)

CHLP	a	100	F	Montreal, P. Q.	180 St. Catherines E.
CHSJ	a	500	F(1)	St. John, N. B.	Admiral Beatty Hotel
CKOC	a	500	F(1)	Hamilton, Ont.	King Wm. & John Sts.
CKX	a	1000	F	Brandon, Man.	Rosser Ave.
CMGF	a	75	....	Matanzas, Cuba	Gral. Betancourt 51
CMKM	a	100	....	Manzanillo, Cuba	Box 4
CRCS	a	100	F	Chicoutimi, P. Q.	4 Rue Larouche
KFIO	a	100	D	Spokane, Wash.	Ziegler Bldg.
KFSG	a	500	a(2.5)	Los Angeles, Calif.	1100 Glendale Blvd.
KRKD	a	500	a(2.5)	Los Angeles, Calif.	312 Spring Arcade
KRSC	a	250	....	Seattle, Wash.	Wash. Athletic Club
KTBC	z	1000	DP	Austin, Texas	State Capitol Brdc. Assn.
WCOP	a	500	D	Boston, Mass.	Copley Plaza Hotel
WDEL	a	250	R(.5)	Wilmington, Del.	10th and King Sts.
WISN	a	250	C(1)	Milwaukee, Wis.	231 W. Michigan St.
WJBO	a	500	B	Baton Rouge, La.	334 Florida St.
WTAW	a	500	L	College Station, Tex.	Agricultural Col.

1130 kcs. (265.3 m.)

CMJI	a	150	....	Ciego de Avila, Cuba	Box 28
KSL	a	50000	C	Salt Lake City, Utah	Vermont Bldg.
WJJD	a	20000	L	Chicago, Ill.	201 N. Wells St.
WOV	a	1000	D	New York, N. Y.	132 W. 43rd St.
XEJP	z	100	....	Mexico City, D. F.	5 de Febrero 128

1140 kcs. (263 m.)

CMCW	b	150	....	Havana, Cuba	Malecon 54, esq. Galiano
KVOO	a	25000	N	Tulsa, Okla.	Wright Bldg.
WAPI	a	5000	C	Birmingham, Ala.	Ala. State College
WSPR	a	500	DM	Springfield, Mass.	63 Chestnut St.

1150 kcs. (260.7 m.)

CMJF	z	200	....	Camaguey, Cuba	Republica 88
WHAM	a	50000	B	Rochester, N. Y.	Sagamore Hotel
XEBP	z	250	....	Durango, Dgo.	Pino Suarez 412
XEC	a	100	....	Tijuana, B. Cfa.	Teatro Zaragoza
XEDW	z	20	....	Minatitlan, Ver.	Av. Hidalgo 40

1160 kcs. (258.5 m.)

CMHJ	a	100	....	Cienfuegos, Cuba	Box 112
CMKG	z	....	....	Santiago, Cuba	.....
WOWO	a	10000	1B	Fort Wayne, Ind.	Westinghouse Station
WVVA	a	5000	1C	Wheeling, W. Va.	Hawley Bldg.
XEAS	a	100	....	Saltillo Coah.	Morelos 15
XED	a	2500	....	Guadalajara, Jal.	Apartado 197
XEFM	z	20	....	Leon, Gto.	Aquiles Serdan 7
XEP	a	500	....	Juarez, Chih.	16 de Septiembre 111

1170 kcs. (256.3 m.)

CMBS	a	150	X	Havana, Cuba	Calzada y "H" St.
WCAU	a	50000	C	Philadelphia, Pa.	1622 Chestnut St.
XEXX	z	1000	....	Mexico City, D. F.	.....

1180 kcs. (254.1 m.)

CMJO	a	50	....	Ciego de Avila, Cuba	Maceo y C. Central
KEX	a	5000	2B	Portland, Ore.	Oregonian Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KOB	a	10000	2N	Albuquerque, N. Mex.	Alb. Brdstg. Co.
WDGY	a	1000	....	Minneapolis, Min.	909 W. Broadway
WINS	a	1000	....	New York, N. Y.	114 E. 58th St.
WMAZ	a	1000	C(5)	Macon, Ga.	211 Cotton Ave.
XEFA	z	500	....	Tacuba, D. F.	Mar Mediterraneo 236

1190 kcs. (252 m.)

CMXX	z	75	...	Santiago, Cuba	C. No. 3, Rto. E. Fomento
KTKC	a	250	D	Visalia, Calif.	Tulare-Kings Counties Assn.
VONF	a	500	1195	St. John's, Nfld.	Box 135
WATR	a	100	DXZ	Waterbury, Conn.	47 Grand St.
WQAJ	a	50000	N	San Antonio, Tex.	1038 Navarro
WSAZ	a	1000	L	Huntington, W. Va.	Box 729

1200 kcs. (249.9 m.)

CFGP	z	100	....	Grande Prairie, Alta.	906 McLeod B., Ermonton
CHAB	a	100	F	Moose Jaw, Sask.	Grant Hall Hotel
CKNX	b	100	....	Wingham, Ont.	Box 65
CKTB	a	100	F	St. Catharines, Ont.	King St.
CMCO	a	150	....	Havana, Cuba	Calle Oficios 116
KADA	a	100	M	Ada, Okla.	C. C. Morris
KBTM	a	100	D	Jonesboro, Ark.	W. J. Beard
KDNC	z	100	(.25)P	Lewistown, Mont.	Democrat-News Co.
KELO	z	100	N	Sioux Falls, S. Dak.	S. F. Broadcast Assn.
KFJB	a	100	(.25)	Marshalltown, Iowa	1603 W. Main St.
KFXD	a	100	(.25)	Nampa, Idaho	Box 891
KFXJ	a	100	(.25)	Grand Junction, Colo.	Hillcrest Manor
KGCI	z	100	DP	Coeur d'Alene, Idaho	2nd and Sherman
KGDE	c	100	(.25)	Fergus Falls, Minn.	Charles L. Jaren
KGEC	a	100	L	Sterling, Colo.	109 W. 2nd St.
KGJF	a	100	....	Los Angeles, Calif.	1417 S. Figueroa
KGHI	a	100	(.25)	Little Rock, Ark.	Pyramid Life Bldg.
KGVL	z	100	DP	Greenville, Tex.	Hunt Brdstg. Assn.
KMLB	a	100	(.25)	Monroe, La.	Francis Hotel
KOOS	a	100	(.25)	Marshfield, Ore.	KOOS, Inc.
KSUN	a	100	(.25)	Lowell, Ariz.	Drawer C
KVCV	a	100	....	Redding, Calif.	Golden Empire Brd. Co.
KVEC	a	100	(.25)	San Luis Obispo, Calif.	Valley Elec. Co.
KVOS	b	100	M	Bellingham, Wash.	115 W. Magnolia St.
KWG	a	100	N	Stockton, Calif.	Medico-Dental Bldg.
KWNO	z	250	D	Winona, Minn.	Winona Radio Service
WABI	a	100	(.25)	Bangor, Maine	Community Brdstg. Serv.
WAIM	a	100	C	Anderson, S. C.	Anderson College
WAYX	a	100	(.25)	Wavcross, Ga.	Box 714
WBZB	a	100	M(.25)	Ponca City, Okla.	615 W. Grand
WBHP	a	100	....	Huntsville, Ala.	Wilton H. Pollard
WBNO	a	100	2	New Orleans, La.	St. Charles Hotel
WCAT	a	100	D	Rapid City, S. Dak.	School of Mines
WCAX	a	100	(.25)	Burlington, Vt.	203 College St.
WCLO	a	100	(.25)	Janesville, Wis.	200 E. Milwaukee St.
WCPO	a	100	(.25)	Cincinnati, Ohio	Scripps-Howard Radio
WDSM	z	100	P	Superior, Wis.	1507 Tower Ave.
WENY	z	250	DP	Elmira, N. Y.	Elmira Star-Gazette
WEST	a	100	3(.25)	Easton, Pa.	Associated Brdcasters.
WFAM	a	100	4	South Bend, Ind.	225 W. Colfax Ave.
WFTC	a	100	(.25)	Kinston, N. C.	Jonas Weiland
WHBC	a	100	(.25)	Canton, Ohio	319 Tuscola St., W.
WHBY	a	100	(.25)	Green Bay, Wis.	Bellin Bldg.
WIBX	a	100	C(.25)	Utica, N. Y.	1st Nat'l. Bank Bldg.
WIL	a	100	(.25)	St. Louis, Mo.	Melbourne Hotel
WJBC	a	100	5(.25)	Bloomington, Ill.	Kaskaskia Brdstg. Co.
WJBL	a	100	5	Decatur, Ill.	Gushard Bldg.
WJBW	a	100	2	New Orleans, La.	Godchaux Bldg.
WJHL	z	100	(.25)P	Johnson City, Tenn.	Birdwell & Lancaster
WJNO	a	100	C(.25)	W. Palm Beach, Fla.	Box 189
WJRD	a	250	D	Tuscaloosa, Ala.	James R. Doss, Jr.
WKBO	a	100	3(.25)	Harrisburg, Pa.	Penn Harris Hotel
WLVA	a	100	(.25)	Lynchburg, Va.	Allied Arts Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WMFR	a	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	100	(.25)	Columbus, Ga.	Royal Theater Bldg.
WSAL	z	250	D	Salisbury, Md.	321 E. Main St.
WTHT	a	100	M	Hartford, Conn.	983 Main St.
WTOL	a	100	D	Toledo, Ohio	Community Brdctsg. Co.
WWAE	a	100	4	Hammond, Ind.	Hammond-Calumet Corp.
XEBU	z	50	....	Chihuahua, Chih.	Apartado 157

1210 kcs. (247.8 m.)

CHLT	z	100	....	Sherbrooke, P. Q.	3 Marquette St.
CJCS	a	50	....	Stratford, Ont.	Frank M. Squires
CJCU	z	50	....	Aklavik, N. W. T.	Dr. J. A. Urquahart
CKBI	a	100	F	Prince Albert, Sask.	Sanderson Bldg.
CKCH	a	100	F	Hull, P. Q.	85 Champlain Ave.
CKMC	a	50	....	Cobalt, Ont.	R. L. MacAdam
CMHI	a	250	....	Santa Clara, Cuba	Independencia 34
KALB	a	100	(.25)	Alexandria, La.	Box 788
KANS	a	100	N	Wichita, Kans.	KANS Brdctsg. Co.
KASA	c	100	....	Elk City, Okla.	Casa Grande Hotel
KDLR	a	100	....	Devils Lake, N. Dak.	1025 Third St.
KDON	z	100	M	Monterey, Calif.	Mont. Peninsula Brd. Co.
KFIJ	a	100	....	Klamath Falls, Ore.	Willard Hotel
KFOR	a	100	CM(.25)	Lincoln, Nebr.	Hotel Lincoln
KFPW	a	100	....	Fort Smith, Ark.	Goldman Hotel
KFVS	a	100	5(.25)	Cape Girardeau, Mo.	Box 275
KFXM	a	100	2M	San Bernardino, Calif.	Calif. Hotel
KGLO	a	100	C(.25)	Mason City, Iowa	Hotel Hanford
KGY	a	100	M	Olympia, Wash.	11th & Capitol Way
KHBG	z	100	D	Okmulgee, Okla.	Okmulgee Brdc. Corp.
KIUL	a	100	....	Garden City, Kans.	Garden City Brdc. Co.
KLAH	a	100	(.25)	Carlsbad, N. Mex.	Carlsbad Brdctsg. Co.
KOCA	a	100	(.25)	Kilgore, Texas	Oil Capital Brdc. Assn.
KPFA	a	100	N(.25)	Helena, Mont.	Peoples Forum of the Air
KPPC	a	100	2	Pasadena, Calif.	585 E. Colorado
KROY	a	100	CD	Sacramento, Calif.	Royal Miller
KVSO	a	100	M(.25)	Ardmore, Okla.	Ardmoreite Pub. Co.
KWJB	z	100	P(.25)	Globe, Ariz.	Sims Brdctsg. Co.
WBAX	a	100	M	Zanesville, Ohio	1st Trust & Bank Bldg.
WBBL	a	100	S	Wilkes-Barre, Pa.	70 S. Main St.
WBLY	a	100	D	Richmond, Va.	1627 Monument Ave.
WBRB	a	100	3	Lima, Ohio	1424 Rice Ave.
WCOL	a	100	3	Red Bank, N. J.	63 Broad St.
WCOU	a	100	N	Columbus, Ohio	33 N. High St.
WCOV	z	100	P	Lewiston, Maine	Allen & Coington
WCRW	a	100	DP	Montgomery, Ala.	2756 Pine Grove Ave.
WCRW	a	100	4	Chicago, Ill.	100 E. Poplar
WEBQ	a	100	5(.25)	Harrisburg, Ill.	3850 Ogden Ave.
WEDC	a	100	4	Chicago, Ill.	Hotel Roger Smith
WFAS	a	100	3	White Plains, N. Y.	Fountain of Youth Properties
WFOY	a	100	(.25)	St. Augustine, Fla.	64 S. Grove St.
WGBB	a	100	3	Freeport, N. Y.	WGCM, Inc.
WGCM	a	100	(.25)	Gulfport, Miss.	161 Broadway
WGNV	a	100	3	Newburgh, N. Y.	P. K. Ewing
WGRM	a	100	....	Grenada, Miss.	John W. Haigis
WHAI	z	250	DP	Greenfield, Mass.	Hotel Harms
WHBF	a	100	(.25)	Rock Island, Ill.	Citizens Bank Bldg.
WHBU	a	100	(.25)	Anderson, Ind.	Route No. 3
WIBU	a	100	(.25)	Poynette, Wis.	108 S. 6th St.
WJBY	a	100	(.25)	Gadsden, Ala.	Lovely Dame Bldg.
WTEJ	a	100	....	Hagerstown, Md.	Harold F. Gross
WIIM	z	100	(.25)	Lansing, Mich.	Walter H. McGenty
WJMC	z	250	DP	Rice Lake, Wis.	James Brdctsg. Co., Inc.
WJTN	a	100	B(.25)	Jamestown, N. Y.	41 S. High St.
WJW	a	100	(.25)	Akron, Ohio	1150 N. Front St.
WKOK	a	100	L	Sunbury, Pa.	Head of the Lakes B. C.
WMFG	a	100	(.25)	Hibbing, Minn.	Cape Cod Brdctsg. Co.
WOCB	z	100	(.25)P	Cape Cod, Mass.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOMT	a	100	....	Manitowoc, Wis.	Box 326
WPAX	a	100	D	Thomasville, Ga.	135 E. Jackson St.
WRAL	z	100	(.25)P	Raleigh, N. C.	
WSAY	z	100	(.25)	Rochester, N. Y.	192 S. Goodman St.
WSBC	a	100	4(.25)	Chicago, Ill.	2400 Madison Ave.
WSIX	a	100	(.25)	Nashville, Tenn.	WSIX, Inc.
WSNJ	z	100	D	Bridgeton, N. J.	Eastern States Brdc. Corp.
WSOC	a	100	N(.25)	Charlotte, N. C.	516 W. Trade St.
WTAX	a	100	....	Springfield, Ill.	416 E. Capitol Ave.
XEAT	a	250	....	Parral, Chih.	Box 90
XEE	a	50	....	Durango, Dgo.	Apartado 148
XEFV	a	100	....	Juarez, Chih.	Tlaxcala 1013
XETH	a	100	....	Puebla, Pue.	Calle 17, Oriente 11

1220 kcs. (245.8 m.)

CMJE	z	50	....	Camaguey, Cuba	Aguero No. 2
KFKU	a	1000	a(5)	Lawrence, Kans.	University of Kans.
KTMS	z	500	B	Santa Barbara, Calif.	News Press Pub. Co.
KTW	a	1000	2S	Seattle, Wash.	7th and Spring Sts.
KWSC	a	1000	2(5)	Pullman, Wash.	State College
WCAD	a	500	D	Canton, N. Y.	St. Lawrence University
WCAE	a	1000	MR(5)	Pittsburgh, Pa.	WCAE, Inc.
WDAE	a	1000	C(5)	Tampa, Fla.	Tampa Terrace
WREN	a	1000	Ba(5)	Lawrence, Kans.	7th and Vermont St.
XEBL	a	50	....	Mazatlan, Sin.	Apartado 78
XEDA	z	200	....	Gral. Anaya, D. F.	Ixtlachuatl 5
XETF	a	12	....	Veracruz, Ver.	Independencia 28

1230 kcs. (243.8 m.)

CMCB	z	150	....	Havana, Cuba	La Metropolitana
KGBX	a	500	N	Springfield, Mo.	St. Louis at Kimbrough
KGGM	a	1000	....	Albuquerque, N. Mex.	KiMo Bldg.
KYA	a	1000	(5)	San Francisco, Calif.	988 Market St.
WFBM	a	1000	C(5)	Indianapolis, Ind.	307 N. Pennsylvania St.
WNAC	a	1000	R(5)	Boston, Mass.	Yankee Network, Inc.
XEAZ	z	200	....	Zacatecas, Zac.	.....
XEG	z	250	....	Monterrey, N. L.	Moreles Oriente 580

1240 kcs. (241.8 m.)

CJCB	a	1000	F	Sydney, N. S.	Eastern Brdcasters, Ltd.
CMHB	z	50	....	Sancti Spiritus, Cuba	Independencia 33
KGCU	a	250	1	Mandan, N. Dak.	404 W. Main St.
KLPM	a	250	1XZ	Minot, N. Dak.	Box 707
KTAT	a	1000	M	Fort Worth, Tex.	Tarrant Brdcstg. Co.
KTFI	a	1000	N	Twin Falls, Idaho	Box 521
WKAQ	a	1000	....	San Juan, P. R.	Box 1414
WXYZ	a	1000	B	Detroit, Mich.	King-Trendle Brd. Corp.
XEKL	z	500	....	Leon, Gto.	Madero 18
XELA	z	50	....	Saltillo, Coah.	Cuauhtemoc 28 sur
XEME	z	50	....	Merida, Yuc.	Calle 59 "A"

1250 kcs. (239.9 m.)

CMKC	a	150	....	Santiago, Cuba	Box 466
HRN	c	50	....	Tegucigalpa, Hond.	Paul John
KFOX	a	1000	....	Long Beach, Calif.	220 E. Anaheim St.
KIT	a	250	MX(.5)	Yakima, Wash.	109 1/2 E. Yakima Ave.
KXOK	z	1000	P	St. Louis, Mo.	Star-Times Pub. Co.
WAIR	a	250	D	Winston-Salem, N. C.	Rob't. E. Lee Hotel
WDSU	a	1000	B	New Orleans, La.	Hotel Monteleone
WHBI	a	1000	(2.5)	Newark, N. J.	100 Shipman St.
WKST	z	250	DP	New Castle, Pa.	Keystone Brdcstg. Co.
WNEW	a	1000	(2.5)	New York, N. Y.	501 Madison Ave.
WTCN	a	1000	B(5)	Minneapolis, Minn.	Wesley Temple Bldg.
XEAI	z	500	....	Mexico City, D. F.	Bahia de Sta. Barbara 114
XEXH	z	250	....	San Luis Potosi, S.L.P.	H. Ayuntamiento S.L.P.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1260 kcs. (238 m.)

CMBD	a	500	2X	Havana, Cuba	Calle 17 y "O"
CMC	z	150	?	Havana, Cuba	Prado No. 4
KGVO	a	1000	C(5)	Missoula, Mont.	240 N. Higgins Ave.
KHSL	a	250	....	Chico, Calif.	Golden Empire Brd. Co.
KOIL	a	1000	BM(5)	Omaha, Nebr.	Central States Brd. Co.
KPAC	a	500	D	Port Arthur, Tex.	Port Arthur College
KRGV	a	1000	N	Weslaco, Texas	KRGV, Inc.
KUOA	a	5000	D	Siloam Springs, Ark.	John Brown University
KVOA	a	1000	....	Tucson, Ariz.	Consolidated Nat'l Bank
WHIO	a	1000	C(5)	Dayton, Ohio	39 S. Ludlow St.
WNBX	a	500	CM(1)	Springfield, Vt.	39 Main St.
WTOC	a	1000	C	Savannah, Ga.	DeSoto Hotel

1270 kcs. (236.1 m.)

CMHD	b	250	....	Caibarien, Cuba	Escobar 17
KGCA	a	100	2D	Decorah, Iowa	201 Water St.
KOL	a	1000	M(5)	Seattle, Wash.	Northern Life Tower
KVOR	a	1000	C	Colorado Springs, Co.	Out West Brdcstg. Co.
KWLC	a	100	2D	Decorah, Iowa	Luther College
WASH	a	500	DNa	Grand Rapids, Mich.	Natl. Bank Bldg.
WFBR	a	500	R(1)	Baltimore, Md.	7 St. Paul St.
WJDX	a	1000	R(5)	Jackson, Miss.	Lamar Life Ins. Co.
WOOD	a	500	Na	Grand Rapids, Mich.	Natl. Bank Bldg.
XEXB	a	250	....	Jalapa, Ver.	Gobierno del E. de Ver.
XEXE	z	17	....	Texcoco, D. F.	H. Ayuntamiento de Tex.

1280 kcs. (234.2 m.)

CMKO	z	200	....	Holguin, Cuba	.....
KBFB	a	1000	C(5)	Great Falls, Mont.	Box 1817
KLS	a	250	....	Oakland, Calif.	327 - 21st St.
WCAM	a	500	1	Camden, N. J.	City Hall
WCAP	a	500	1	Asbury Park, N. J.	Convention Hall
WTNJ	a	500	C(5)	Chattanooga, Tenn.	Hotel Patten
WDOD	a	1000	N(5)	Madison, Wis.	111 King St.
WIBA	a	1000	C	Worcester, Mass.	60 Franklin St.
WORC	a	500	M	Dallas, Texas	Southland Bldg.
WRR	a	500	1	Trenton, N. J.	Stacey Ircnt Hotel
XEMX	z	100	...	Mexico City, D. F.	Juan Cuatmazin

1290 kcs. (232.4 m.)

CMCU	a	500	....	Havana, Cuba	Vibora
CMJK	a	200	...	Camaguey, Cuba	Finlay No. 3
KDYL	a	1000	RX	Salt Lake City, Utah	Intermountain Brd. Corp.
KLCN	a	100	D	Blytheville, Ark.	Main & Division Sts.
KTRH	a	1000	C(5)	Houston, Texas	Rice Hotel
WEBC	a	1000	N(5)	Duluth, Minn.	Spaulding Hotel
WJAS	a	1000	C(5)	Pittsburgh, Pa.	7th Ave.
WNBZ	a	100	D	Saranac Lake, N. Y.	Hotel Saranac
WNEL	a	1000	(2.5)	San Juan, P. R.	Box 1252

1300 kcs. (230.6 m.)

CMHX	a	200	...	Cienfuegos, Cuba	P. O. Box 205
KALE	a	1000	M	Portland, Ore.	New Heathman Hotel
KFAC	a	1000	....	Los Angeles, Calif.	3443 Wilshire Blvd.
KFH	a	1000	C(5)	Wichita, Kans.	124½ S. Market St.
WBRR	a	1000	1	Brooklyn, N. Y.	124 Columbia Heights
WEVD	a	1000	1	New York, N. Y.	Hotel Claridge
WFAB	a	1000	1	New York, N. Y.	154 W. 57th St.
WFBC	a	1000	N(5)	Greenville, S. C.	Imperial Hotel
WHAZ	a	1000	1	Troy, N. Y.	8th Ave.
WHBL	a	250	....	Sheboygan, Wis.	Press Bldg.

1310 kcs. 228.9 m.)

CHCK	a	50	....	Charlottetown, P.E.I.	J. A. Gesner
CJKL	a	100	F	North Bay, Ont.	R and E Building
CJLS	a	100	F	Yarmouth, N. S.	Box 684
KCKV	a	100	F	Quebec, P. Q.	254 Marguerite-Bourgeois
KAND	z	100	D	Corsicana, Tex.	State Natl. Bank Bldg.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KARM	a	100	C	Fresno, Calif.	George Harm
KBND	z	100	(.25)	P Bend, Ore.	The Bend Bulletin
KCKN	a	100	....	Kansas City, Kans.	901 N. 8th St.
KCRJ	a	100	(.25)	Jerome, Ariz.	Drawer D
KFPL	b	100	(.25)	Dublin, Texas	Box 176
KFYO	a	100	(.25)	Lubbock, Texas	Box 1448
KGEZ	a	100	....	Kalispell, Mont.	Box 1
KGFW	a	100	....	Kearney, Nebr.	919 W. 27th St.
KHUB	a	250	D	Watsonville, Calif.	Anna Atkinson
KINY	a	100	XZ	Juneau, Alaska	Edwin A. Kraft
KOCY	a	100	(.25)	Oklahoma City, Okla.	Plaza Court Brdc. Co.
KPDN	a	100	D	Pampa, Texas	R. C. Hoiles
KRBA	z	100	D	Lufkin, Texas	Angelina Hotel
KRMD	a	100	(.25)	Shreveport, La.	Box 1712
KROC	a	100	(.25)	Rochester, Minn.	Martin Hotel
KROA	a	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	100	....	Cedar City, Utah	El Escalante Hotel
KTFL	z	250	DP	Tulsa, Okla.	
KTSM	a	100	N(.25)	El Paso, Texas	Box 1976
KVIC	z	100	P	Victoria, Texas	
KVOL	a	100	....	Lafayette, La.	Evangeline Hotel
KVOX	z	100	(.25)	Moorhead, Minn.	KVOX Brdcstg. Co.
KWOC	z	100	D	Poplar Bluff, Mo.	Fields McCarthy Co.
KWOS	z	100	D	Jefferson City, Mo.	Tribune Printing Co.
KXRO	a	100	M(.25)	Aberdeen, Wash.	Morck Hotel
WAML	a	100	(.25)	Laurel, Miss.	Box 26
WBEO	a	100	D	Marquette, Mich.	146 W. Washington
WBOW	a	100	N(.25)	Terre Haute, Ind.	19½ S. 6th St.
WBRE	a	100	N	Wilkes-Barre, Pa.	16 N. Main St.
WBRK	z	100	C(.25)	Pittsfield, Mass.	8 Bank Row
WCLS	a	100	L	Joliet, Ill.	301 E. Jefferson St.
WCMI	a	100	(.25)	Ashland, Ky.	Box 106
WDAH	a	100	S(.25)	El Paso, Tex.	Box 1976
WEBR	a	100	B(.25)	Buffalo, N. Y.	23 North St.
WEMP	a	100	D	Milwaukee, Wis.	711 Empire Bldg.
WEXI	a	50	....	Royal Oak, Mich.	212 W. 6th St.
WFBG	a	100	3	Altoona, Pa.	12th Ave. & 13th St.
WFDF	a	100	....	Flint, Mich.	Union Industrial Bldg.
WGAU	z	100	P(.25)	Athens, Ga.	J. K. Patrick & Co.
WGH	a	100	(.25)	Newport News, Va.	Metropolitan Bldg.
WGTM	z	100	D	Wilson, N. C.	WGTM, Inc.
WHAT	a	100	4	Philadelphia, Pa.	Public Ledger Bldg.
WJAC	a	100	3(.25)	Johnstown, Pa.	Locust St.
WLAJ	z	100	....	Lakeland, Fla.	Lake Region Brdc. Co.
WLBC	a	100	(.25)	Muncie, Ind.	Anthony Bldg.
WLNH	a	100	M	Iaconia, N. H.	523 Main St.
WMBO	a	100	....	Auburn, N. Y.	Metcalf Bldg.
WMFF	a	100	B(.25)	Plattsburg, N. Y.	Hotel Cumberland
WNBH	a	100	M(.25)	New Bedford, Mass.	251 Union St.
WOL	a	100	MZ	Washington, D. C.	1111 "H" St.
WRAW	a	100	....	Reading, Pa.	533 Penn St.
WROL	a	100	N(.25)	Knoxville, Tenn.	524 S. Gay St.
WSAJ	a	100	.	Grove City, Pa.	418 Poplar St.
WSAV	z	100	P	Savannah, Ga.	
WSGN	a	100	B(.25)	Birmingham, Ala.	Birmingham News Co.
WSJS	a	100	C	Winston-Salem, N.C.	416 N. Marshall
WTAL	a	100	(.25)	Tallahassee, Fla.	Fla. Capitol Brdcasters.
WTEL	a	100	4	Philadelphia, Pa.	3701 N. Broad
WTIS	a	100	(.25)	Jackson, Tenn.	Sun Bldg.
WTRC	a	100	(.25)	Elkhart, Ind.	Hotel Elkhart
XEAG	z	10	....	Cordoba, Ver.	Av. "L" 135
XEBO	z	25	....	Irapuato, Gto.	Guerrero 26
XEFW	a	300	....	Tampico, Tams	Salvador Diaz Miron 6
XETB	a	125	....	Torreon, Coah.	Apartado 225
XEX	a	125	....	Monterrev, N. L.	Apartado 10
XEXS	z	100	....	Mexico Citv. D. F.	.....

1320 kcs. (227.1 m.)

KCMO	a	200	....	Havana, Cuba
KGHF	a	500	B	Pueblo, Colo.

Perez y Chisholm
113 Broadway

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KGMB	a	1000	CM	Honolulu, Hawaii	Box 581
KID	a	500	(1)	Idaho Falls, Idaho	Box 487
KRNT	a	1000	C(5)	Des Moines, Iowa	715 Locust St.
TGI	d	....	....	Guademaal City, Guat.	
WADC	a	1000	C(5)	Akron, Ohio	Box 29
WORK	a	1000	N	York, Pa.	15 S. Beaver St.
WSMB	a	1000	R(5)	New Orleans, La.	Maison Blanche Bldg.
XEAU	z	....	....	Tijuana, B. Cfa.	.....

1330 kcs. (225.4 m.)

CMHK	z	250	....	Cruces, Cuba	Calle Heredia-61
KGB	a	1000	M	San Diego, Calif.	1012 First Ave.
KMO	a	1000	M	Tacoma, Wash.	914 1/2 Broadway
KRIS	z	500	N	Corpus Christi, Tex.	Gulf Coast Brdcstg. Co.
KSCJ	a	1000	C(5)	Sioux City, Iowa	415 Douglas St.
WDRG	a	1000	C	Hartford, Conn.	750 Main St.
WSAI	a	1000	MN(5)	Cincinnati, Ohio	1329 Arlington St.
WTAQ	a	1000	C	Green Bay, Wis.	Bellin Bldg.

1340 kcs. (223.7 m.)

CMAB	z	100	....	Pinar del Rio, Cuba	Hotel Ricardo
CMJW	z	300	....	Camaguey, Cuba	Apartado 322
KDTH	z	500	ADP	Dubuque, Iowa	Telegraph Herald Co.
KGIR	a	1000	N(5)	Butte, Mont.	121 W. Broadway
KGNO	a	250	....	Dodge City, Kans.	1st Natl. Bank Bldg.
WCOA	a	500	C(1)	Pensacola, Fla.	Pensacola Brdcstg. Co.
WFPA	a	500	MN(1)	Manchester, N. H.	Carpenter Hotel
WSPD	a	1000	B(5)	Toledo, Ohio	The Fort Industry Co.
XEAP	z	50	....	Obregon, Son.	Veracruz 83
XEB5	z	200	....	Mexico City, D. F.	Castilla 153
XEDH	z	200	....	Villa Acuna, Coah.	Galeana y B. Dominguez
XEXD	z	350	....	Jalapa, Ver.	Gobierno del E. De Ver.

1350 kcs. (222.1 m.)

CMCA	a	450	....	Havana, Cuba	Galiano 102
CMKW	z	....	....	Santiago, Cuba	Reperto Vista Alegre
KIDO	a	1000	N(2.5)	Boise, Idaho	Hotel Boise
KWK	a	1000	XBM(5)	St. Louis, Mo.	Hotel Chase
WAWZ	a	500	1(1)	Zarephath, N. J.	Pillar of Fire
WBNX	a	1000	1	New York, N. Y.	260 E. 161st St.
WMBG	a	500	R	Richmond, Va.	914 W. Broad St.

1360 kcs. (220.4 m.)

CMJH	b	200	....	Ciego de Avila, Cuba	Castilla 37
KCRC	a	250	M	Enid, Okla.	Oxford Hotel
KGER	a	1000	....	Long Beach, Calif.	435 Pine St.
WCSC	a	500	N(1)	Charleston, S. C.	Francis Marion Hotel
WFBL	a	1000	C(5)	Syracuse, N. Y.	Onondago Hotel
WGES	a	500	1(1)	Chicago, Ill.	4000 Washington Blvd.
WQBC	a	1000	D	Vicksburg, Miss.	Hotel Vicksburg
WSBT	a	500	1	South Bend, Ind.	225 W. Colfax Ave.

1370 kcs. (218.8 m.)

CFAR	z	100	....	Flin Flon, Man.	120 Main St.
CKCW	a	100	F	Moncton, N. B.	K of P Hall
CMGE	a	200	....	Cardenas, Cuba	Av. Cespedes 180
KAST	a	100	DXZ	Astoria, Ore.	611 Commercial St.
KCMO	a	100	....	Kansas City, Mo.	1515 Commerce Trust B.
KEEN	a	100	3	Seattle, Wash.	2101 Smith Tower
KELD	z	100	....	El Dorado, Ark.	Radio Enterprises, Inc.
KERN	a	100	N	Bakersfield, Calif.	McClatchey Brdcstg. Co.
KFGQ	a	100	D	Boone, Iowa	924 W. 2nd St.
KFJZ	a	100	(.25)	Fort Worth, Texas	502 Trinity Life
KFRD	a	250	D	Longview, Texas	Box 616
KGAR	a	100	C(.25)	Tucson, Ariz.	142 S. 6th Ave.
KGFL	a	100	4	Roswell, N. Mex.	507 N. Main St.
KGKL	a	100	(.25)	San Angelo, Texas	St. Angelus Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KICA	a	100	4	Clovis, N. Mex.	Box 111
KIUP	a	100	....	Durango, Colo.	2800 Main St.
KLUF	a	100	....	Galveston, Tex.	KLUF Brdctg. Co., Inc.
KMAC	a	100	5(.25)	San Antonio, Tex.	Smith-Young Tower
KOBH	a	100	(.25)	Rapid City, S. Dak.	Alex Johnson Hotel
KOKO	a	100	....	La Junta, Colo.	Southwest Brdctg. Co.
KONO	a	100	5	San Antonio, Tex.	Milan Bldg.
KRE	a	100	(.25)	Berkeley, Calif.	2337 Shattuck Ave.
KRKO	a	50	3	Everett, Wash.	2814 Rucker Ave.
KRMC	z	100	(.25)	Jamestown, N. Dak.	Gladstone Hotel
KSLM	a	100	MXZ	Salem, Ore.	343 Court St.
KTEM	a	250	D	Temple, Texas	Bell Brdctg. Co.
KTOK	a	100	MN	Oklahoma City, Okla.	1113 N. Broadway
KUJ	a	100	....	Walla Walla, Wash.	Marcus Whitman Hotel
KVGB	z	100	....	Great Bend, Kans.	Ernest Edward Ruehlen
KVRS	z	100	P(.25)	Rock Springs, Wyo.	Wyo. Brdctg. Co.
KWYO	a	100	(.25)	Sheridan, Wyo.	Big Horn Brdctg. Co.
WABY	a	100	N(.25)	Albany, N. Y.	Strand Theater Bldg.
WAGF	a	250	D	Dothan, Ala.	Box 25
WATL	a	100	(.25)	Atlanta, Ga.	26 Cain St.
WBKJ	a	100	....	Clarksburg, W. Va.	The Exponent Co.
WBNY	a	100	2(.25)	Buffalo, N. Y.	485 Main St.
WBTM	a	100	(.25)	Danville, Va.	Miller Bldg.
WCBM	a	100	(.25)	Baltimore, Md.	Keith Theater Bldg.
WDAS	a	100	(.25)	Philadelphia, Pa.	1211 Chestnut St.
WDWS	a	100	(.25)	Champaign, Ill.	48-56 Main St.
WEOA	a	100	C(.25)	Evansville, Ind.	Evansv. on the Air, Inc.
WFOR	a	100	....	Hattiesburg, Miss.	Box 947
WGL	a	100	N(.25)	Fort Wayne, Ind.	Westinghouse Stations
WGRC	a	250	D	New Albany, Ind.	North Side Brd. Corp.
WHBO	a	100	....	Memphis, Tenn.	Hotel Claridge
WHDF	a	100	(.25)	Calumet, Mich.	Scott St.
WHLB	a	100	C(.25)	Virginia, Minn.	Head of the Lakes B. C.
WHLS	z	250	DP	Port Huron, Mich.	Port Huron Brdctg. Co.
WIBM	a	100	(.25)	Jackson, Mich.	306 W. Michigan Ave.
WLHJ	a	100	Sy	Lawrence, Mass.	Merrimac Brdctg. Co.
WLH	a	100	MSy(.25)	Lowell, Mass.	Box D
WMBR	a	100	C(.25)	Jacksonville, Fla.	Atlantic Annex Bldg.
WMFD	a	100	D	Wilmington, N. C.	Hotel Wilmington
WMFO	a	100	D	Decatur, Ala.	Box 1025
WMIN	a	100	(.25)	St. Paul, Minn.	St. Anthony & Syndicate
WOC	a	100	C(.25)	Davenport, Iowa	1000 Brady St.
WPAY	a	100	....	Portsmouth, Ohio	Vee Bee Corp.
WPRA	z	100	(.25)	Mavaguez, P. R.	P. R. Advertising Co.
WRAK	a	100	(.25)	Williamsport, Pa.	244 W. 4th St.
WRDO	a	100	M	Augusta, Maine	1 Commercial St.
WRJN	a	100	(.25)	Racine, Wis.	Hotel Racine
WSAU	a	100	....	Wausau, Wis.	Northern Brdctg. Co.
WSVS	a	50	2D	Buffalo, N. Y.	666 E. Delevan St.
XECZ	z	100	....	San Luis Potosi, S.L.P.	Zaragoza 32
XEI	a	125	....	Morelia, Mich.	Madero 545
XELZ	z	100	....	Mexico City, D. F.	Pino 243
....	z	100	....	Owen Sound, Ont.	Owen Sound Sun-Times

1380 kes. (217.3 m.)

CMCR	z	150	....	Havana, Cuba	Infanta 115
CMCX	z	150	....	Havana, Cuba	Calle Maceo 7
KOH	a	500	C	Reno, Nev.	440 N. Virginia St.
KOV	a	500	1C	Pittsburgh, Pa.	1406 C of C Bldg.
WALA	a	500	C(1)	Mobile, Ala.	Box 288
WKBH	a	1000	C	La Crosse, Wis.	409 Main St.
WNBC	a	250	DX	New Britain, Conn.	147 Main St.
WSMK	a	200	ICLX	Dayton, Ohio	121 N. Main St.

1390 kes. (215.7 m.)

CMJC	z	200	F	Yorkton, Sask.	Royal Alexandra Hotel
CMJC	z	150	....	Camaguey, Cuba	Cisneros y Gral Gomez
KABR	a	500	(1)	Aberdeen, S. Dak.	
KLRA	a	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

WHK	a	1000	BM(2.5)	Cleveland, Ohio	1311 Terminal Tower
WQDM	a	1000	D	St. Albans, Vt.	8 Kingman St.

1400 kcs. (214.2 m.)

GMGC	a	150	....	Matanzas, Cuba	Independencia 56
CMKR	z	100	....	Santiago, Cuba	Maso alta 71
KHBC	a	250	CM	Hilo, Hawaii	Box 595
KLO	a	500	B	Ogden, Utah	Hotel Ben Lomond
KTUL	a	1000	C(5)	Tulsa, Okla.	Nat'l. Bank Bldg.
TGX	d	....	....	Guatemala City, Guat.	
WARD	a	500	2	Brooklyn, N. Y.	427 Fulton St.
WBBC	a	500	2(1)	Brooklyn, N. Y.	552-54 Atlantic Ave.
WEGE	z	500	P	Brooklyn, N. Y.	Brooklyn Daily Eagle
WHDL	a	250	D	Olean, N. Y.	Exchange Bank
WIRE	a	1000	MR(5)	Indianapolis, Ind.	540 N. Meridian St.
WLTH	a	500	2	Brooklyn, N. Y.	105 Second Ave., N.Y.C.
WVFW	a	500	2	Brooklyn, N. Y.	4 & 5 Court Square

1410 kcs. (212.6 m.)

CKFC	a	50	5	Vancouver, B. C.	1504 Sun Bldg.
CKMO	a	100	5	Vancouver, B. C.	812 Robson St.
CMCQ	a	5000	....	Havana, Cuba	Vista Alegre 80
KFJM	a	500	(1)	Grand Forks, N. Dak.	University of N. Dak.
KGNC	a	1000	N(2.5)	Amarillo, Texas	Plains Radio Brdc. C
KMED	c	250	N	Medford, Ore.	Sparta Bldg.
WAAB	a	500	M(1)	Boston, Mass.	Yankee Network, In.
WBCM	a	500	(1)	Bay City, Mich.	Hotel Wenonah
WHIS	a	500	(1)	Bluefield, W. Va.	Bland St.
WROK	a	500	(1)	Rockford, Ill.	109 S. Water St.
WSFA	a	500	C(1)	Montgomery, Ala.	Jefferson Davis Hotel

1420 kcs. (211.1 m.)

CHLN	z	100	....	Three Rivers, P. Q.	Le Nouvelliste
CKGB	a	100	F	North Bay, Ont.	R. H. Thompson
KABC	a	100	(.25)	San Antonio, Tex.	Texas Theater Bldg.
KATE	a	250	D	Albert Lea, Minn.	Albert Lea Brdcstg. C
KBPS	a	100	4	Portland, Ore.	546 N. E. 12th Ave.
KCMC	a	100	(.25)	Texarkana, Tex.	KCMC, Inc.
KDNT	z	100	D	Denton, Texas	Harwell V. Shepard
KEUB	a	100	....	Price, Utah	Eastern Utah Brdc. Co.
KFAM	z	100	(.25)	St. Cloud, Minn.	Times Pub. Co.
KFIZ	a	100	....	Fond du Lac, Wis.	Lange Bldg.
KGFF	a	100	M(.25)	Shawnee, Okla.	9th and Bell Sts.
KGGC	a	100	....	San Francisco, Calif.	230 Eddy St.
KGIW	a	100	1	Alamosa, Colo.	Box 26
KGLU	z	100	P(.25)	Safford, Ariz.	Gila Brdcstg. Co.
KIDW	a	100	1	Lamar, Colo.	Southwest Brdcstg. Co.
KIUN	a	100	....	Pecos, Texas	Hawkins & Tubbs
KLBM	z	100	P(.25)	La Grande, Ore.	.....
KNET	a	100	D	Palestine, Texas	Palestine Brdcstg. Assn.
KORE	a	100	M	Eugene, Ore.	733 Willamette St.
KRBC	a	100	(.25)	Abilene, Tex.	Box 263
KRBM	z	100	P(.25)	Bozeman, Mont.	Roberts McNab Co.
KRIC	z	100	(.25)	Beaumont, Texas	Beaumont Brdcstg. Assn.
KRLH	a	100	D	Midland, Texas	Clarence Scharbaur
KTRI	z	100	(.25)	Sioux City, Iowa	Sioux City Brdcstg. Co.
KUMA	a	100	1	Yuma, Ariz.	Box 267
KVAK	z	100	DP	Atchison, Kans.	
KWBG	a	100	....	Hutchinson, Kans.	W. N. Greenwald
KXL	a	100	1(.25)	Portland, Ore.	Multnomah Hotel
WACO	a	100	2	Waco, Texas	KTSA Brdcstg. Co.
WAGM	a	100	....	Presque Isle, Me.	Main St.
WAPQ	a	100	(.25)	Chattanooga, Tenn.	9th Broad St.
WAZL	a	100	2	Hazleton, Pa.	Nat'l. Bank Bldg.
WCBS	a	100	(.25)	Springfield, Ill.	208 1/2 S. 5th St.
WCHV	a	100	3(.25)	Charlottesville, Va.	Box 221
WEED	a	100	3(.25)	Rocky Mount, N. C.	Box 221
WELL	a	100	....	Battle Creek, Mich.	1 W. Michigan Ave.
WFMJ	z	100	DP	Youngstown, Ohio	Wm. F. Maag, Jr.
WGPC	a	100	....	Albany, Ga.	Rylander Theater

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHFC	a	100	(.25)	Cicero, Ill.	6138 Cermak Road
WILM	a	100	2	Wilmington, Del.	920 King St.
WJMS	a	100	....	Ironwood, Mich.	St. James Hotel
WLAP	a	100	(.25)	Lexington, Ky.	Main & Esplanade
WLEU	a	100	B(.25)	Eric, Pa.	Commerce Bldg.
WMAS	a	100	C(.25)	Springfield, Mass.	Hotel Stonehaven
WMBC	a	100	(.25)	Detroit, Mich.	7310 Woodward Ave.
WMBH	a	100	(.25)	Joplin, Mo.	1334 Roosevelt St.
WMBS	a	250	D	Uniontown, Pa.	Fayette Brdcastg. Corp.
WMFJ	a	100	....	Daytona Beach, Fla.	126½ Magnolia Ave.
WMSD	a	100	....	Sheffield, Ala.	Box 688
WPAD	a	100	(.25)	Paducah, Ky.	2201 Broadway
WPAR	a	100	C	Parkersburg, W. Va.	Chancellor Hotel
WPRP	z	100	(.25)	Ponce, P. R.	Julio M. Canesa
WSLI	z	100	P(.25)	Jackson, Miss.	Stand. Life Ins. Co.
....	z	100	....	Kenora, Ont.	Kenora Brdcastg. Co.

1430 kcs. (209.7 m.)

CMJP	a	75	....	Moron, Cuba	Callejas No. 80
KECA	a	1000	B(5)	Los Angeles, Calif.	1000 S. Hope St.
KGNF	a	1000	D	NorthPlatte, Nebr.	W. 12th St.
KSO	a	500	BM(2.5)	Des Moines, Iowa	715 Locust St.
WBNS	a	1000	C(5)	Columbus, Ohio	33 N. High St.
WHEC	a	500	C(1)	Rochester, N. Y.	40 Franklin St.
WHP	a	500	C(1)	Harrisburg, Pa.	216 Locust St.
WMPS	a	500	B(1)	Mer-phis, Tenn.	Box 445
WOKO	a	500	C(1)	Albany, N. Y.	Hotel Ten Eyck

1440 kcs. (208.2 m.)

CMOA	z	150	....	Havana, Cuba	Aguilas 126, altos
HP50	z	....	....	Colon, Panama	La Voz de la Victor
KDFN	a	500	....	Casper, Wyo.	Box 930
KELA	a	500	M	Centralia, Wash.	Central Brdcastg. Corp.
KXYZ	a	1000	B	Houston, Texas	Gulf Bldg.
WBIG	a	1000	C	Greensboro, N. C.	The O. Henry Hotel
WCBA	a	500	a	Allentown, Pa.	39-41 Tenth St.
WMBD	a	1000	C(5)	Peoria, Ill.	200 Alliance Life Bldg.
WSAN	a	500	Na	Allentown, Pa.	39 Tenth St.
XEFI	a	250	...	Chihuahua, Chih.	Apartado 157

1450 kcs. (206.8 m.)

CFCT	a	500	....	Victoria, B. C.	620 View St.
CHGS	a	50	F	Summerside, P. E. I.	190 Water St.
CMHM	z	150	....	Cienfuegos, Cuba	Hotel Union
KGCX	a	1000	....	Wolf Point, Mont.	Westland Radio Station
KIEM	a	500	M(1)	Eureka, Calif.	Vance Hotel
KTBS	a	1000	N	Shreveport, La.	Box 17
TGO	d	200	....	Quezaltenango, Guat.	Dir. of Elec. Comm.
WAGA	a	500	B(1)	Atlanta, Ga.	Western Union Bldg.
WGAR	a	500	CX(1)	Cleveland, Ohio	Hotel Statler
WHOM	a	250	....	Jersey City, N. J.	29 W. 57th St., N.Y.C.
WSAR	a	1000	M	Fall River, Mass.	Academy of Music Bldg.
XEF	a	100	....	Juarez, Chih.	Box 70

1460 kcs. (205.4 m.)

CMKF	z	250	....	Holguin, Cuba	Libertad esq. Arias
KSTP	a	1000	R(25)	St. Paul, Minn.	St. Paul Hotel
WJSV	a	1000	C	Washington, D. C.	Earle Bldg.

1470 kcs. (204 m.)

KGA	a	5000	BM	Spokane, Wash.	1023 W. Riverside Ave.
WLAC	a	5000	C	Nashville, Tenn.	2421 West End Ave.

1480 kcs. (202.6 m.)

KOMA	a	5000	C	Oklahoma City, Okla.	Biltmore Hotel
------	---	------	---	----------------------	----------------

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHIP	z	5000	D	Hammond, Ind.	137 Pochman Ave.
WKBW	a	5000	C	Buffalo, N. Y.	Rand Bldg.

1490 kcs. (201.2 m.)

KFBK	a	10000	N	Sacramento, Calif.	708 Eye St.
WKCY	a	10000	N	Covington, Ky.	6th and Madison

1500 kcs. (199.9 m.)

CJIC	a	100	F	Sault Ste. Marie, Ont.	Windsor Hotel
KAWM	z	100	....	Gallup, N. Mex.	A. W. Mills
KBIX	a	100	M	Muskogee, Okla.	Barnes Bldg.
KBKR	z	100	(.25)P	Baker, Ore.	
KBST	z	100	....	Big Spring, Tex.	Crawford Hotel
KDAL	a	100	C	Duluth, Minn.	Red River Brdc. Co.
KDB	a	100	M(.25)	Santa Barbara, Calif.	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	100	(.25)	Scottsbluff, Nebr.	1517½ Broadway
KNEL	a	250	D	Brady, Texas	Box 1077
KNOW	a	100	C	Austin, Texas	Norwood Bldg.
KOTN	a	100	D	Pine Bluff, Ark.	Hotel Pines
KOVC	a	100	(.25)	Valley City, N. Dak.	KOVC, Inc.
KPAB	z	100	(.25)	Laredo, Tex.	Hamilton Hotel
KPLC	a	100	(.25)	Lake Charles, La.	Majestic Hotel
KPLT	z	250	D	Paris, Texas	Gibraltar Hotel
KPQ	a	100	M(.25)	Wenatchee, Wash.	20 Second St.
KRNR	a	100	M(.25)	Roseburg, Ore.	News-Review Co.
KROD	z	100	P	El Paso, Texas	Dorrance D. Roderick
KSAL	a	100	(.25)	Salina, Kans.	Journal Building
KSAM	z	100	DP	Huntsville, Texas	Sam Houston Brd. Co.
KUTA	z	100	N	Salt Lake City, Utah	Utah Brdcstg. Co.
KVNU	z	100	P	Logan, Utah	Cache Valley Brd. Co.
KVOE	a	100	M	Santa Ana, Calif.	Voice of Orange Empire
KWEW	z	100	DP	Hobbs, N. Mex.	W. E. Whitmore
KXO	a	100	....	El Centro, Calif.	Box 140
KYCA	z	100	(.25)P	Prescott, Ariz.	
KYSM	z	100	P(.25)	Mankato, Minn.	F. B. Clement & Co.
WCNW	a	100	1(.25)	Brooklyn, N. Y.	846 Flatbush Ave.
WDAN	z	250	DP	Danville, Ill.	Northwestern Pub. Co.
WDNC	a	100	C	Durham, N. C.	Washington Duke Hotel
WGAL	a	100	(.25)	Lancaster, Pa.	8 W. King St.
WGIL	z	250	DP	Galesburg, Ill.	Galesburg Brdc. Co.
WGKV	z	100	P	Charleston, W. Va.	Kanawha Valley Brd. Co.
WHBB	a	100	....	Selma, Ala.	Box 26
WHEF	a	100	(.25)	Kosciusko, Miss.	Box 631
WJBK	a	100	(.25)	Detroit, Mich.	6559 Hamilton Ave.
WKAT	a	100	....	Miami Beach, Fla.	A. Frank Katzentine
WKBB	a	100	YC(.25)	E. Dubuque, Ill.	Hotel Julian
WKBV	a	100	(.25)	Richmond, Ind.	Box 308
WKBZ	a	100	(.25)	Muskegon, Mich.	Ashbacker Radio Corp.
WKEU	a	100	D	Griffin, Ga.	906 Hill St.
WMEX	a	100	(.25)	Boston, Mass.	Northern Corp.
WNBF	a	100	C(.25)	Binghamton, N. Y.	Arlington Hotel
WNLC	a	100	DM	New London, Conn.	Mohican Hotel
WOMI	a	100	(.25)	Owensboro, Ky.	Owensboro Brdc. Co.
WOPI	a	100	...	Bristol, Tenn.	22nd and State
WRDW	a	100	C(.25)	Augusta, Ga.	309 Eighth St.
WRGA	a	100	(.25)	Rome, Ga.	10 Third Ave.
WRTD	a	100	B	Richmond, Va.	State-Planters Bank Bldg.
WSTP	z	100	(.25)P	Salisbury, N. C.	
WSYB	a	100	....	Rutland, Vt.	Box 328
W MV	a	100	(.25)	E. St. Louis, Ill.	Miss. Val. Brdc. Co.
W WRL	a	100	1(.25)	Woodside, N. Y.	41-30 - 58th St.
WWSW	a	100	(.25)	Pittsburgh, Pa.	Hotel Keystone

1510 kcs. (198.6 m.)

CFRC	a	100	F	Kingston, Ont.	Fleming Hall
CKCR	a	100	....	Waterloo, Ont.	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.)

 KITE a 1000 Kansas City, Mo. 106 W. 14th St.
 WBRY a 1000 M Waterbury, Conn. 136 Grand St.

1550 kcs. (193.4 m.)

 KPMC a 1000 M Bakersfield, Calif. Pioneer Mercantile Co.
 WQXR a 1000 New York, N. Y. 730 Fifth Ave.

RADEX CLUB

(Continued from Page 17)

2. South America.
3. Europe, including Iceland and the British Isles.
4. Africa.
5. Asia, including the Philippine Islands.
6. 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.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

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.

ALABAMA			
F Canadian, M Mutual.			
Birmingham	KGHI 1200	100	KJBS 1070 500
WAPI 1140 5000 C	KLRA 1390 1000 C		KFO 680 50000 R
WBRG 930 1000 R	Pine Bluff		KSFO 560 1000 C
WSGN 1310 100 B	KOTN 1500 100		KYA 1230 1000
Decatur	Siloam Springs		San Jose
WMFO 1370 100	KUOA 1260 5000		KQW 1010 1000M
Dothan			San Luis Obispo
WAGF 1370 250			KVEC 1200 100
Gadsden			Santa Ana
WTJB 1210 100			KVOE 1500 100M
Huntsville			Santa Barbara
WBHP 1200 100			KDB 1500 100M
Mobile			KTMS 1220 500 B
WALA 1380 500 C			Santa Rosa
Montgomery			KSRO 1310 100
WCOV 1210 100			Stockton
WSFA 1410 500 C			KGDM 1100 1000M
Selma			KWG 1200 100 N
WHBB 1500 100			Visalia
Sheffield			KTCK 1190 250
WMSD 1420 100			Watsonville
Tuscaloosa			KHUB 1310 250
WJRD 1200 250			
ALASKA			
Anchorage			
KFQD 780 250			
Fairbanks			
KFAR 610 1000			
Juneau			
KINY 1310 100			
Ketchikan			
KGBV 900 500			
ARIZONA			
Globe			
KWJB 1210 100			
Jerome			
KCRJ 1310 100			
Lowell			
KSUN 1200 100			
Phoenix			
KOY 1390 1000 C			
KTAR 620 1000 N			
Prescott			
KYCA 1500 100			
Safford			
KGLU 1420 100			
Tucson			
KGAR 1370 100 C			
KVOA 1260 1000			
Yuma			
KUMA 1420 100			
ARKANSAS			
Blytheville			
KLCN 1290 100			
El Dorado			
KELD 1370 100			
Fort Smith			
KFPW 1210 100			
Hot Springs			
KTHS 1060 10000 N			
Jonesboro			
KBTM 1200 100			
Little Rock			
KARK 890 500 N			
CALIFORNIA			
Bakersfield			
KERN 1370 100 N			
KPMC 1550 1000M			
Berkeley			
KRE 1370 100			
Beverly Hills			
KMPC 710 500			
Chico			
KHSL 1260 250			
El Centro			
KXO 1500 100			
Eureka			
KIEM 1450 500M			
Fresno			
KARM 1310 100 C			
KMJ 580 1000 N			
Glendale			
KIEV 850 250			
Hollywood			
KFWB 950 1000			
Long Beach			
KFOX 1250 1000			
KGER 1360 1000			
Los Angeles			
KECA 1430 1000 B			
KEHE 780 1000			
KFAC 1300 1000			
KFT 640 50000 R			
KFSG 1120 500			
KFVD 1000 1000			
KGFJ 1200 100			
KHJ 900 1000M			
KMTR 570 1000			
KNX 1050 50000 C			
KRKC 1120 500			
Merced			
KYOS 1040 250			
Modesto			
KTRB 740 250			
Monterey			
KDON 1210 100M			
Oakland			
KLS 1280 250			
KLX 880 1000			
KROW 930 1000			
Pasadena			
KPPC 1210 100			
Redding			
KVCV 1200 100			
Sacramento			
KFBK 1490 10000 N			
KROY 1210 100 C			
San Bernardino			
KFXM 1210 100M			
San Diego			
KFSD 600 1000 B			
KBG 1330 1000M			
San Francisco			
KFRG 610 1000M			
KGGC 1420 100			
KGO 790 7500 R			
COLORADO			
Alamosa			
KGIW 1420 100			
Colorado Springs			
KVOR 1270 1000 C			
Denver			
KFEL 920 500M			
KLZ 560 1000 C			
KOA 830 50000 R			
KPOF 880 1000			
KVOD 920 500 B			
Durango			
KIUP 1370 100			
Grand Junction			
KFXJ 1200 100			
Greeley			
KFKA 880 500M			
La Junta			
KOKO 1370 100			
Lamar			
KIDW 1420 100			
Pueblo			
KGHF 1320 500 B			
Sterling			
KGEK 1200 100			
CONNECTICUT			
Bridgeport			
WICC 600 500M			
Hartford			
WDRC 1330 1000 C			
WTIC 1040 50000 R			
WTHT 1200 100M			
New Britain			
WNBC 1380 250			
New Haven			
WELI 900 500			
New London			
WNLC 1500 100M			
Waterbury			
WATR 1190 100			
WBRY 1530 1000M			
DELAWARE			
Wilmington			
WDEL 1120 250 R			
WILM 1420 100			
DISTRICT OF COLUMBIA			
Washington			
WJSV 1460 10000 C			
WMAL 630 250 B			
WOL 1310 1000M			
WRC 950 1000 R			
FLORIDA			
Daytona Beach			
WMFJ 1420 100			
Gainesville			
WRUF 830 5000			
Jacksonville			
WJAX 900 1000 N			
WMBR 1370 100 C			
Lakeland			
WLAK 1310 100			
Miami			
WIOD 610 1000 N			
WMBF 610 1000			
WOAM 560 1000 C			
Miami Beach			
WKAT 1590 100			
Orlando			
WDBO 580 1000 C			
Pensacola			
WCOA 1340 500 C			
St. Augustine			
WFOY 1210 100			
St. Petersburg			
WSUN 620 1000 N			
Tallahassee			
WTAL 1310 100			
Tampa			
WDAE 1220 1000 C			
WFLA 620 1000 N			
West Palm Beach			
WJNO 1200 100 C			
GEORGIA			
Albany			
WGPC 1420 100			
Athens			
WGAU 1310 100			
Atlanta			
WAGA 1450 500 B			
WATL 1370 100			
WGST 890 1000 C			
WSB 740 5000 R			
Augusta			
WRDW 1500 100 C			
Columbus			
WRBL 1200 100			
Griffin			
WKUE 1500 100			
Macon			
WMAZ 1180 1000 C			
Rome			
WRGA 1500 100			
Savannah			
WSAV 1310 100			
WTOC 1260 1000 C			

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Thomasville
WPAX 1210 100
Waycross
WAYX 1200 100

HAWAII

Hilo
KHBC 1400 250M
Honolulu
KGMB 1320 1000 C
KGU 750 2500 N

IDAHO

Boise
KIDO 1350 1000 N
Coeur d'Alene
KGCI 1200 100
Idaho Falls
KID 1320 500
Lewiston
KRLC 1390 250
Nampa
KFXX 1200 100
Pocatello
KSEI 900 250 N
Twin Falls
KTFF 1240 1000 N

ILLINOIS

Bloomington
WJBC 1200 100
Carthage
WCAZ 1070 100
Champaign
WDWS 1370 100
Chicago
WAAF 920 1000
WBBM 770 50000 C
WCBP 1080 5000
WCFL 970 5000 N
WCRW 1210 100
WEDC 1210 100
WENR 870 50000 B
WGES 1360 500
WGN 720 50000M
WJJD 1130 20000
WLS 870 50000 B
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
Galesburg
WGIL 1500 250
Harrisburg
WEBQ 1210 100
Joliet
WCLS 1310 100
Peoria
WMBD 1440 1000 C

Quincy
WTAD 900 1000
Rockford
WROK 1410 500
Rock Island
WHBF 1210 100
Springfield
WCBS 1420 100
WTAX 1210 100
Tuscola
WDZ 1020 250
Urbana
WILL 580 1000

INDIANA

Anderson
WHBU 1210 100
Elkhart
WTRC 1310 100
Evansville
WEOA 1370 100 C
WGBF 630 500 N
Fort Wayne
WGL 1370 100 N
WOWO 1160 10000 B
Gary
WIND 560 1000
Hammond
WHIP 1480 5000
WWAE 1200 100
Indianapolis
WFBM 1230 1000 C
WGVA 1050 1000
WIRE 1400 1000 R
Muncie
WLBC 1310 100
New Albany
WGRC 1370 250
Richmond
WKBV 1500 100
South Bend
WFAM 1200 100
WSBT 1360 500
Terre Haute
WBOW 1310 100 N
West Lafayette
WBAA 890 500

IOWA

Ames
WOI 640 5000
Boone
KFGQ 1370 100
Cedar Rapids
WMT 600 1000 B
Davenport
WOC 1370 100 C
Decorah
KGCA 1270 100
KWLC 1270 100
Des Moines
KRNT 1320 1000 C
KSO 1430 500 B
WHO 1000 50000 R
Dubuque
KDTH 1340 500
Iowa City
WSUI 880 500
Marshalltown
KFJB 1200 100

Mason City
KGLO 1210 100 C
Shenandoah
KFNF 890 500
KMA 930 1000 B
Sioux City
KSCJ 1330 1000 C
KTRI 1420 100

KANSAS

Abilene
KFBI 1050 5000
Atchison
KVAK 1420 100
Coffeyville
KGGF 1010 1000M
Dodge City
KGNO 1340 250
Garden City
KIUL 1210 100
Great Bend
KVG B 1370 100
Hutchinson
KWBG 1420 100
Kansas City
KCKN 1310 100
Lawrence
KFKU 1220 1000
WREN 1220 1000 B
Manhattan
KSAC 580 500
Pittsburg
KOAM 790 1000 N
Salina
KSAL 1500 100
Topeka
WIBW 580 1000 C
Wichita
KANS 1210 100 B
KFH 1300 1000 C

KENTUCKY

Ashland
WCMI 1310 100
Covington
WCKY 1490 10000 N
Lexington
WLAP 1420 100
Louisville
WAVE 940 1000 N
WHAS 820 50000 C
Owensboro
WOMI 1500 100
Paducah
WPAD 1420 100

LOUISIANA

Alexandria
KALB 1210 100
Baton Rouge
WJBO 1120 500 B
Lafayette
KVOL 1310 100
Lake Charles
KPLC 1500 100

Monroe
KMLB 1200 100
New Orleans
WBNO 1200 100
WDSU 1250 1000 B
WTBW 1200 100
WSMB 1320 1000 R
WWL 850 10000 C
Shreveport
KRMD 1310 100
KTBS 1450 1000 N
KWKH 1100 10000 C

MAINE

Augusta
WRDO 1370 100M
Bangor
WABI 1200 100
WLBZ 620 500 C
Lewister
WCOV 1210 100
Portland
WCSH 940 1000 R
WGAN 640 500
Presque Isle
WAGM 1420 100

MARYLAND

Baltimore
WBAL 760 2500 B
WBAL 1060 10000 B
WCAO 600 500 C
WCBM 1370 100
WFBR 1270 500 R
College Park
W3XJ 1060 100
Cumberland
WTBO 800 250
Frederick
WFMD 900 500
Hagerstown
WWEJ 1210 100
Salisbury
WSAL 1200 250

MASSACHUSETTS

Boston
WAA B 1410 500M
WBZ 990 50000 B
WCOP 1120 500
WEEI 590 1000 C
WHDH 830 1000
WMEX 1500 100
WNAC 1230 1000 R
WORL 920 500
Cape Cod
WOCB 1210 100
Fall River
WSAR 1450 1000M
Greenfield
WHA I 1210 250
Lawrence
WLA W 680 1000
WLLH 1370 100
Lowell
New Bedford
WNLH 1310 100M
WLLH 1370 100M

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Pittsfield st WBRK 1310 100 C Springfield WBZA 990 1000 B WMAS 1420 100 C WSPR 1140 500M Worcester WORC 1280 500 C WTAG 580 1000 R	Northfield WCAL 760 1000 Rochester KROC 1310 100 St. Cloud KFAM 1420 100 St. Paul KSTP 1460 10000 R WMIN 1370 100 Virginia WHLB 1370 100 C Winona KWNO 1200 250	Bozeman KRBM 1420 100 Butte KGIR 1340 1000 N Great Falls KFBB 1280 1000 C Helena KPFA 1210 100 N Kalispell KGEZ 1310 100 Lewistown KDNC 1200 100 Missoula KGVO 1260 1000 C Wolf Point KGCX 1450 1000	Whippany W3XDD ... 50000 Zarephath WAWZ 1350 500
NEW MEXICO			
MICHIGAN			
Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit WJBK 1500 100 WJR 750 50000 C WMBC 1420 100 WWJ 920 5000 R WXYZ 1240 1000 B East Lansing WKAR 850 1000 Flint WFDF 1310 100 Grand Rapids WASH 1270 500 N WOOD 1270 500 N Ironwood WJMS 1420 100 Jackson WIBM 1370 100 Kalamazoo WKZO 590 1000 B Lansing WJIM 1210 100 Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500	Grenada WGRM 1210 100 Gulfport WGCM 1210 100 Hattiesburg WFOR 1370 100 Jackson WJDX 1270 1000 R WSLI 1420 100 Kosciusko WHEF 1500 100 Laurel WAML 1310 100 Meridian WCOC 880 1000 C Vicksburg WQBC 1360 1000	NEBRASKA	
MISSISSIPPI			
MISSOURI			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WBCB 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000 WTCN 1250 1000 B Moorhead KVOX 1310 100	Cape Girardeau KFVS 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000	Reno KOH 1380 500 C	Albany WABY 1370 100 N WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNBFB 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WVFW 1400 500 Buffalo WBEN 900 1000 R WBNY 1370 100 WBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WWSV 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WJTN 1210 100 B Newburgh WGN 1210 100 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000 WEAF 660 50000 R WEVD 1300 1000 WFA3 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WMCA 570 1000 WNEW 1250 1000 WNYC 810 1000
MONTANA			
NEBRASKA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			
NEW HAMPSHIRE			
NEW JERSEY			
NEW YORK			
NEBRASKA			
NEVADA			

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

WOV	1130	1000
WOXR	1550	1000
Olean		
WHDL	1400	250
Plattsburg		
WMFF	1310	100 B
Rochester		
WHAM	1150	50000 B
WHEC	1430	500 C
WSAY	1210	100
Saranac Lake		
WNBZ	1290	100
Schenectady		
WGY	790	50000 R
Syracuse		
WFBL	1360	1000 C
WSYR	570	1000 B
WSYU	570	1000
Troy		
WHAZ	1300	1000
Utica		
WIBX	1200	100C
White Plains		
WFAS	1210	100
Woodside		
WWRL	1500	100

NORTH CAROLINA

Asheville		
WWNC	570	1000 N
Charlotte		
WBT	1080	50000 C
WSOC	1210	100 N
Durham		
WDNC	1500	100 C
Greensboro		
WBig	1440	1000 C
High Point		
WMFR	1200	100
Kinston		
WFTC	1200	100
Raleigh		
WPTF	680	5000 N
....	1210	100
Rocky Mount		
WEED	1420	100
Salisbury		
....	1500	100
Wilmington		
WMFD	1370	100
Wilson		
WGTM	1310	100
Winston-Salem		
WAIR	1250	250
WSJS	1310	100 C

NORTH DAKOTA

Bismarck		
KFYR	550	1000 N
Devils Lake		
KDLP	1210	100
Fargo		
WDAY	940	1000 N
Grand Forks		
KFTM	1410	500
Jamestown		
KRNC	1370	100
Mandan		
KCCU	1240	250
Minot		
WDDM	1240	250

Valley City		
KOVC	1500	100

OHIO

Akron		
WADC	1320	1000 C
WJW	1210	100
Ashtabula		
WICA	940	250
Canton		
WHBC	1200	100
Cincinnati		
WCPO	1200	100
WKRC	550	1000 C
WLW	700	50000N
WSAI	1330	1000 N
Cleveland		
WCLE	610	500M
WGAR	1450	500 C
WHK	1390	1000 B
WTAM	1070	50000 R
Columbus		
WBNS	1430	1000 C
WCOL	1210	100 N
WHKC	640	500M
WOSU	570	750
Dayton		
WHIO	1260	1000 C
WSMK	1380	200 C
Lima		
WBLY	1210	100
Portsmouth		
WPAY	1370	100
Toledo		
WSPD	1340	1000 B
WTOL	1200	100
Youngstown		
WFMJ	1420	100
WKBN	570	500 C
Zanesville		
WALR	1210	100

OKLAHOMA

Ada		
KADA	1200	100M
Ardmore		
KVSO	1210	100M
Elk City		
KASA	1210	100
Enid		
KCRC	1360	250M
Muskogee		
KBIX	1500	100M
Norman		
WNAD	1010	1000
Oklahoma City		
KOCY	1310	100
KOMA	1480	5000 C
KTKO	1370	100M
WKY	900	1000 N
Okmulgee		
KHBG	1210	100
Ponca City		
WRR7	1200	100M
Shawnee		
KGFF	1420	100M
Tulsa		
KTFE	1310	250
KTUL	1400	1000 C
KVOO	1140	25000 N

OREGON

Astoria		
KAST	1370	100
Baker		
KBKR	1500	100
Bend		
KBND	1310	100
Corvallis		
KOAC	550	1000
Eugene		
KORE	1420	100M
Klamath Falls		
KFJI	1210	100
La Grande		
KLBM	1420	100
Marshfield		
KOOS	1200	100
Medford		
KMED	1410	250 N
Portland		
KALE	1300	1000M
KBPS	1420	100
KEX	1180	5000 B
KGW	620	1000 R
KOIN	940	1000 C
KWJJ	1040	500
KXL	1420	100
Roseburg		
KRNR	1500	100M
Salem		
KSLM	1370	100M

PENNSYLVANIA

Allentown		
WCBA	1440	500
WSAN	1440	500 N
Altoona		
WPBG	1310	100
Easton		
WEST	1200	100
Erie		
WLEU	1420	100 B
Glenside		
WIBG	970	100
Greensburg		
WHJB	620	250 C
Grove City		
WSAJ	1310	100
Harrisburg		
WHP	1430	500 C
WKBO	1200	100
Hazleton		
WAZL	1420	100
Johnstown		
WJAC	1310	100
Lancaster		
WGAL	1500	100 N
New Castle		
WKST	1250	250
Philadelphia		
KYW	1020	10000 R
WCAU	1170	50000 C
WDAS	1370	100
WFTL	560	1000 B
WHAT	1310	100
WTP	610	1000
WPFN	920	1000
WRAX	920	1000
WTFI	1310	100
Pittsburgh		

KDKA	980	50000 B
KQV	1380	500 C
WCAE	1220	1000 R
WJAS	1290	1000 C
WWSW	1500	100
Reading		
WEU	830	1000
WRAW	1310	100
Scranton		
WGBI	880	500 C
WQAN	880	500
Sharon		
WPIC	780	250
Sunbury		
WKOK	1210	100
Uniontown		
WMB5	1420	250
Wilkes-Barre		
WBAX	1210	100M
WBRE	1310	100 N
Williamsport		
WRAK	1370	100
York		
WORK	1320	1000 N

PUERTO RICO

Mayaguez		
WPRa	1370	100
Ponce		
WPRP	1420	100
San Juan		
WKAQ	1240	1000
WNEL	1290	1000

RHODE ISLAND

Providence		
WEAN	780	1000M
WJAR	890	1000 R
WPRO	630	500 C

SOUTH CAROLINA

Anderson		
WAIM	1200	100 C
Charleston		
WCSC	1360	500 N
Columbia		
WIS	560	1000 N
Florence		
WOLS	1200	100
Greenville		
WFBC	1300	1000 N
Spartanburg		
WSPA	920	1000

SOUTH DAKOTA

Aberdeen		
KABR	1390	500
Brookings		
KFDY	780	1000
Pierre		
KGFX	630	200
Rapid City		
KORH	1370	100
WCAT	1200	100
Sioux Falls		
WFTO	1200	100 N
KSOO	1110	5000 N

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Grande Prairie
CFGP 1200 100
Lethbridge
CJOC 950 100 F

BRIT. COLUMBIA

Chilliwack
CHWK 780 100 F
Kamloops
CFJC 880 1000 F
Kelowna
CKOV 630 100 F
Prince Rupert
CFPR 580 50
Trail
CJAT 910 1000 F
Vancouver
CBR 1100 5000 F
CJOR 600 500
CKCD 1010 100
CKFC 1410 50
CKMO 1410 100
CKWX 1010 100
Victoria
CFCT 1450 500

MANITOBA

Brandon
CKX 1120 1000 F
Plin Plon
CFAR 1370 100
Winnipeg
CJRC 630 500 F
CKY 910 15000 F

NEW BRUNSWICK

Fredericton
CFNB 550 500 F
Moncton
CKCW 1370 100 F
St. John
CHSJ 1120 500 F

N. W. TERRITORY

Aklavik
CJCU 1210 50

NOVA SCOTIA

Glace Bay
VAS 685 2000
Halifax
CHNS 930 1000 F
Sydney
CJCB 1240 1000 F
Wolfville
CKIC 1010 50
Yarmouth
CJLS 1310 100 F

ONTARIO

Brantford
CKPK 930 100 F
Chatham
CFCO 630 100 F

Cobalt
CKMC 1210 50
Port William
CKPR 730 100 F
Hamilton
CHML 1010 100 F
CKOC 1120 500 F

Kenora
..... 1420 100
Kingston
CFRC 1510 100 F
London
CFPL 730 100 F
North Bay
CFCH 930 100 F
CJKL 1310 100 F
CKGB 1420 100 F
Ottawa
CBO 88C 1000 F
CKCO 1010 100 F
Owen Sound
..... 1370 100
Prescott
CFLC 930 100
St. Catharines
CKTB 1200 100 F
Sault Ste. Marie
CJIC 1500 100 F
Stratford
CJCS 1210 50
Sudbury
CKSO 780 1000 F
Toronto
CBL 840 50000 F
CFRB 690 10000 C
CKCL 580 100 F
CRCY 960 100 F
Waterloo
CKCR 1510 100
Windsor
CKLW 1030 5000 F
Wingham
CKNX 1200 100

PRINCE EDWARD ISLAND

Charlottetown
CFCY 630 1000 F
CHCK 1310 50
Summerside
CHGS 1450 50 F

QUEBEC

Chicoutimi
CRCS 1120 100 F
Hull
CKKH 1210 100 F
Montreal
CBF 910 50000 N
CBM 1050 5000 F
CFCF 600 500 B
CHLP 1120 100 F
CKAC 730 5000 C
New Carlisle
CHNC 960 1000 F
Quebec
CHRC 580 100
CKCV 1310 100 F

CRCK 950 1000 F
Rimouski
CJBR 1030 1000 F
Sherbrooke
CHLT 1210 100
Three Rivers
CHLN 1420 100

SASKATCHEWAN

Moose Jaw
CHAB 1200 100 F
Prince Albert
CKBI 1210 100 F
Regina
CJRM 540 1000 F
CKCK 1010 1000 F
Saskatoon
CFQC 840 1000 F
Yorkton
CJGX 1390 100 F

COSTA RICA

San Jose
TIPG 625 2000
TIX 650 1000

CUBA

Bayamo
CMKL 990 60
Caibarien
CMHD 1270 250
Camaguey
CMJA 1010 250
CMJC 1390 200
CMJE 1220 50
CMJF 1150 200
CMJK 1290 200
CMJQ 1080 200
CMJW 1340 300
CMJX 830 500
Cardenas
CMGE 1370 200
Ciego de Avila
CMJH 1360 200
CMJI 1130 150
CMJO 1180 50
Cienfuegos
CMHJ 1160 100
CMHM 1450 150
CMHX 1300 200
Cruces
CMHK 1330 250
Guantanamo
CMKS 960 60
Havana
CMBC 950 150
CMBD 1260 500
CMBF 770 5000
CMBL 750 500
CMBQ 680 5000
CMBS 1170 150
CMBX 1070 150
CMBY 970 200
CMBZ 1000 500
CMC 1260 150
CMCA 1350 450
CMCB 1230 150
CMCD 630 250

CMCF 810 5000
CMCG 680 150
CMCJ 1110 500
CMCK 1030 5000
CMCL 730 10000
CMCM 850 250
CMCO 1200 150
CMCO 1200 150
CMCR 1380 150
CMCU 1290 500
CMCW 1140 150
CMCX 1380 150
CMCY 570 10000
CMK 720 250
CMOA 1440 150
CMOX 1320 200
CMQ 600 25000
CMW 880 1400
CMX 920 1000

Holguin
CMKF 1460 250
CMKO 1280 200
Manzanillo
CMKM 1120 100
Matanzas
CMGC 1400 200
CMGF 1120 75
CMGH 790 250

Moron
CMJP 1430 75
Pinar del Rio
CMAB 1340 100
Sagua la Grande
CMHA 1070 50
Sancti Spiritus
CMHB 1240 50
Santa Clara
CMHI 1210 250
CMHW 820 100
Santiago
CMKC 1250 150
CMKD 1050 250
CMKG 1160
CMKR 1400 250
CMKW 1350
CMKX 1190 75

DOMINICAN REPUBLIC

Ciudad Trujillo
HIN 1090 740
HIT 1050 50
HIX 800 800

EL SALVADOR

San Salvador
YSS 640 500

GUATEMALA

Guatemala City
TGW 1520 1000
TGX 1400
TGI 1320
Quezaltenango
TGO 1450 200

HONDURAS

Tegucigalpa
HRN 1250 50

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

MEXICO
AGUASCALIENTES

Aguascalientes
XEBI 1000 25

BAJACALIFORNIA

Mexicali
XEAA 750 200
XEAU 1320
Rosarito Beach
XERB 730 100000
Tijuana
XEAC 980 1000
XEAD 1320
XEBG 820 1000
XEC 1150 100
XELO 580 10000
XEMO 860 5000
XEOK 760 2500

CHIHUAHUA

Chihuahua
XEBU 1200 50
XEFI 1440 250
Juarez
XEF 1450 100
XEFV 1210 100
XEJ 1020 1000
XEP 1160 500
Parral
XEAT 1210 250

COAHUILA

Piedras Negras
XEMU 580 250
XEPN 730 100000
Sabinas
XEBX 640 250
Saltillo
XEAS 1160 100
XELA 1240 50
Torreón
XETB 1310 125

Villa Acuna
XEDH 1340 200
XERA 840 250000

D. F.

Gral. Anaya
XEDA 1220 200
Mexico City
XEAI 1250 500
XEAL 660 1000
XEB 1030 10000
XEBB 1340 200
XEBZ 810 100
XEDP 1080 500
XEFO 940 5000
XEJP 1130 100
XEJW 870 500
XEK 890 100
XEL 1100 250
XELZ 1370 100
XEMX 1280 100
XEN 780 1000
XENC 860 50
XEW 890 50000
XEXM 610 500
XEXS 1310 100
XEXX 1170 1000
XEYO 610 500

Tacuba
XEFA 1180 500
Texcoco
XEXE 1270 17

DURANGO

Durango
XEBP 1150 250
XEE 1210 50

GUANAJUATO

Irapuato
XEBO 1310 25
Leon
XEFM 1160 20
XEKL 1240 500

JALISCO

Guadalajara
XED 1160 2500
Guzman
XEBA 1080 20

MICHOACAN

Morelia
XEI 1370 125

NUEVO LEON

Monterrey
XEFB 870 200
XEG 1230 250
XEH 720 250
XET 690 5000
XEX 1310 125

PUEBLA

Puebla
XETH 1210 100

SAN LUIS POTOSI

San Luis Potosi
XECZ 1370 100
XEXH 1250 250

SINALOA

Mazatlan
XEBL 1220 50

SONORA

Cananea
XEFQ 1010 50
Hermosillo
XEBH 930 500
Nogales
XEAF 990 750
Obregon
XEAP 1340 50

TAMAULIPAS

Matamoros
XEAM 750 25

Nuevo Laredo
XEBK 1080 100
XEDF 810 100
XEFE 980 250
XENT 910 150000

Reynosa
XEAW 960 100000
Tampico
XEFW 1310 300
XES 990 250

VERACRUZ

Cordoba
XEAG 1310 10
Jalapa
XEXB 1270 250
XEXD 1340 350
Minatitlan
XEDW 1150 20
Veracruz
XETF 1220 12
XEU 1010 250

YUCATAN

Merida
XEFC 550 100
XEME 1240 50
XEZ 630 500

ZACATECAS

Zacatecas
XEAZ 1230 200

MIQUELON

St. Pierre
FQN 609 250

NEWFOUNDLAND

St. John's
VOAC 1065 40
VOCM 1006 200
VOGY 840 400
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 may reside, it's an odds-on bet that the old stand-bys, patience and perse-

verance, 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.

NORTH AMERICAN B. C. STATIONS BY CALLS

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

NORTH AMERICAN B. C. STATIONS BY CALLS

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

NORTH AMERICAN B. C. STATIONS BY CALLS

KFDY 780 1000	KFYR 550 1000	KGLU 1420 100
Brookings, S. D.	Bismarck, N. D.	Safford, Ariz.
KFEL 920 500	KGA 1470 5000	KGMB 1320 1000
Denver, Colo.	Spokane, Wash.	Honolulu, T. H.
KFEQ 680 2500	KGAR 1370 100	KGNC 1410 1000
St. Joseph, Mo.	Tucson, Ariz.	Amarillo, Texas
KFGQ 1370 100	KGB 1330 1000	KGNF 1430 1000
Boone, Iowa	San Diego, Calif.	North Platte, Neb.
KFH 1300 1000	KGBU 900 500	KGNO 1340 250
Wichita, Kans.	Ketchikan, Alaska	Dodge City, Kans.
KFI 640 50000	KGBX 1230 500	KGO 790 7500
Los Angeles, Calif.	Springfield, Mo.	San Francisco, Calif.
KFIO 1120 100	KGCA 1270 100	KGU 750 2500
Spokane, Wash.	Decorah, Iowa	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	KGCU 1240 250	KGVO 1260 1000
Marshalltown, Iowa	Mandan, N. D.	Missoula, Mont.
KFJI 1210 100	KGCX 1450 1000	KGW 620 1000
Klamath Falls, Ore.	Wolf Point, Mont.	Portland, Ore.
KFJM 1410 500	KGDE 1200 100	KGY 1210 100
Grand Forks, N. D.	Fergus Falls, Minn.	Olympia, Wash.
KFJZ 1370 100	KGDM 1100 1000	KHBC 1400 250
Fort Worth, Texas	Stockton, Calif.	Hilo, T. H.
KFKA 880 500	KGEK 1200 100	KHBB 1210 100
Greeley, Colo.	Sterling, Colo.	Okmulgee, Okla.
KFKU 1220 1000	KGER 1360 1000	KHJ 900 1000
Lawrence, Kans.	Long Beach, Calif.	Los Angeles, Calif.
KFNF 890 500	KGEZ 1310 100	KHQ 590 1000
Shenandoah, Iowa	Kalispell, Mont.	Spokane, Wash.
KFOR 1210 100	KGFF 1420 100	KHSL 1260 250
Lincoln, Neb.	Shawnee, Okla.	Chico, Calif.
KFOX 1250 1000	KGFI 1500 100	KHUB 1310 250
Long Beach, Calif.	Brownsville, Tex.	Watsonville, Calif.
KPPL 1310 100	KGFI 1200 100	KICA 1370 100
Dublin, Texas	Los Angeles, Calif.	Clovis, N. M.
KFPW 1210 100	KGFL 1370 100	KID 1320 500
Fort Smith, Ark.	Roswell, N. Mex.	Idaha Falls, Idaho
KFPY 890 1000	KGFW 1310 100	KIDO 1350 1000
Spokane, Wash.	Kearney, Neb.	Boise, Idaho
KFQD 780 250	KGFX 630 200	KIDW 1420 100
Anchorage, Alaska	Pierre, S. D.	Lamar, Colo.
KFRC 610 1000	KGGC 1420 100	KIAM 1450 500
San Francisco, Calif.	San Francisco, Calif.	Eureka, Calif.
KFRO 1370 250	KGGF 1010 1000	KIEV 850 250
Longview, Texas	Coffeyville, Kans.	Glendale, Calif.
KFRU 630 500	KGGM 1230 1000	KINY 1310 100
Columbia, Mo.	Albuquerque, N. M.	Juneau, Alaska
KFSD 600 1000	KGHP 1320 500	KIRO 710 1000
San Diego, Calif.	Pueblo, Colo.	Seattle, Wash.
KFSG 1120 500	KGHI 1200 100	KIT 1250 250
Los Angeles, Calif.	Little Rock, Ark.	Yakima, Wash.
KFUO 550 500	KGHL 780 1000	KITE 1530 1000
St. Louis, Mo.	Billings, Mont.	Kansas City, Mo.
KFVD 1000 1000	KGIR 1340 1000	KIUL 1210 100
Los Angeles, Calif.	Butte, Mont.	Garden City, Kans.
KFVS 1210 100	KGIW 1420 100	KIUN 1420 100
Cape Girardeau, Mo.	Alamosa, Colo.	Pecos, Texas
KFWB 950 1000	KGKB 1500 100	KIUP 1370 100
Hollywood, Calif.	Tyler, Texas	Durango, Colo.
KFXD 1200 100	KGKL 1370 100	KJBS 1070 500
Nampa, Idaho	San Angelo, Texas	San Francisco, Calif.
KFXJ 1200 100	KGKO 570 1000	KJR 970 5000
Grand Junction, Colo.	Fort Worth, Texas	Seattle, Wash.
KFXM 1210 100	KGKY 1500 100	KLAH 1210 100
San Bernardino, Calif.	Scottsbluff, Neb.	Carlsbad, N. Mex.
KFYO 1310 100	KGLO 1210 100	KLBM 1420 100
Lubbock, Texas	Mason City, Iowa	La Grande, Ore.

NORTH AMERICAN B. C. STATIONS BY CALLS

KLCN 1290	100	KOMA 1480	5000	KRMD 1310	100
Blytheville, Ark.		Oklahoma City, Okla.		Shreveport, La.	
KLO 1400	500	KOMO 920	1000	KRRR 1500	100
Ogden, Utah		Seattle, Wash.		Roseburg, Ore.	
KLPM 1240	250	KONO 1370	100	KRNT 1320	1000
Minot, N. D.		San Antonio, Texas		Des Moines, Iowa	
KLRA 1390	1000	KOOS 1200	130	KROC 1310	100
Little Rock, Ark.		Marshfield, Ore.		Rochester, Minn.	
KLS 1280	250	KORE 1420	100	KROD 1500	100
Oakland, Calif.		Eugene, Ore.		El Paso, Texas	
KLUF 1370	100	KOTN 1500	100	KROW 930	1000
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
Denver, Colo.		Phoenix, Ariz.		Santa Fe, N. Mex.	
KMA 930	1000	KPAB 1500	100	KRRV 1310	250
Shenandoah, Iowa		Laredo, Texas		Sherman, Texas	
KMAC 1370	100	KPAC 1260	500	KRSC 1120	250
San Antonio, Texas		Port Arthur, Texas		Seattle, Wash.	
KMBC 950	1000	KPDN 1310	100	KSAC 580	500
Kansas City, Mo.		Pampa, Texas		Manhattan, Kans.	
KMED 1410	250	KPFA 1210	100	KSAM 1500	100
Medford, Ore.		Helena, Mont.		Hunsville, Texas	
KMJ 580	1000	KPLC 1500	100	KSAL 1500	100
Fresno, Calif.		Lake Charles, La.		Salina, Kans.	
KMLB 1200	100	KPLT 1500	250	KSCJ 1330	1000
Monroe, La.		Paris, Texas		Sioux City, Iowa	
KMMJ 740	1000	KPMC 1550	1000	KSD 550	1000
Clay Center, Neb.		Bakersfield, Calif.		St. Louis, Mo.	
KMO 1330	1000	KPO 680	50000	KSEI 900	250
Tacoma, Wash.		San Francisco, Calif.		Pocatello, Idaho	
KMOX 1090	50000	KPOF 880	1000	KSFO 560	1000
St. Louis, Mo.		Denver, Colo.		San Francisco, Calif.	
KMPC 710	500	KPPC 1210	100	KSL 1130	50000
Beverly Hills, Calif.		Pasadena, Calif.		Salt Lake City, Utah	
KMTR 570	1000	KPQ 1500	100	KSJM 1370	100
Los Angeles, Calif.		Wenatchee, Wash.		Salem, Ore.	
KNEL 1500	250	KPRC 920	1000	KSO 1430	500
Brady, Texas		Houston, Texas		Des Moines, Iowa	
KNET 1420	100	KQV 1380	500	KSOO 1110	5000
Palestine, Texas		Pittsburgh, Pa.		Sioux Falls, S. Dak.	
KNOW 1500	100	KQW 1010	1000	KSTO 1310	100
Austin, Texas		San Jose, Calif.		Santa Rosa, Calif.	
KNX 1050	50000	KRBA 1310	100	KSTP 1460	10000
Los Angeles, Calif.		Lufkin, Texas		St. Paul, Minn.	
KOA 830	50000	KRBC 1420	100	KSUB 1310	100
Denver, Colo.		Abilene, Texas		Cedar City, Utah	
KOAC 550	1000	KRBM 1420	100	KSUN 1200	100
Corvallis, Ore.		Bozeman, Mont.		Lowell, Ariz.	
KOAM 790	1000	KRE 1370	100	KTAR 620	1000
Pittsburg, Kans.		Berkeley, Calif.		Phoenix, Ariz.	
KOB 1180	10000	KRGV 1260	1000	KTAT 1240	1000
Albuquerque, N. M.		Weslaco, Texas		Fort Worth, Texas	
KOBH 1370	100	KRIC 1420	100	KTEC 1120	1000
Rapid City, S. Dak.		Beaumont, Texas		Austin, Texas	
KOCA 1210	100	KRIS 1330	500	KTBS 1450	1000
Kilgore, Texas		Corpus Christi, Tex.		Shreveport, La.	
KOCY 1310	100	KRKD 1120	500	KTEM 1370	250
Oklahoma City, Okla.		Los Angeles, Calif.		Temple, Texas	
KOH 1380	500	KRKO 1370	50	KTFI 1240	1000
Reno, Nev.		Everett, Wash.		Twin Falls, Idaho	
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
Seattle, Wash.		Jamestown, N. Dak.		Santa Barbara, Calif.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KTOK 1370 100	KWJJ 1040 500	WAAT 940 500
Oklahoma City, Okla.	Portland, Ore.	Jersey City, N. J.
KTRB 740 250	KWK 1350 1000	WAAW 660 500
Modesto, Calif.	St. Louis, Mo.	Omaha, Neb.
KTRH 1290 1000	KWKH 1100 10000	WABC 860 50000
Houston, Texas	Shreveport, La.	New York, N. Y.
KTRI 1420 100	KWLC 1270 100	WABI 1200 100
Sioux City, Iowa	Decorah, Iowa	Bangor, Maine
KTSA 550 1000	KWLK 780 250	WABY 1370 100
San Antonio, Texas	Longview, Wash.	Albany, N. Y.
KTSM 1310 100	KWNO 1200 250	WACO 1420 100
El Paso, Texas	Winona, Minn.	Waco, Texas
KTUL 1400 1000	KWOC 1310 100	WADC 1320 1000
Tulsa, Okla.	Poplar Bluff, Mo.	Akron, Ohio
KTW 1220 1000	KWOS 1310 100	WAGA 1450 500
Seattle, Wash.	Jefferson City, Mo.	Atlanta, Ga.
KUJ 1370 100	KWSC 1220 1000	WAGF 1370 250
Walla Walla, Wash.	Pullman, Wash.	Dothan, Ala.
KUMA 1420 100	KWTO 560 5000	WAGM 1420 100
Yuma, Ariz.	Springfield, Mo.	Presque Isle, Me.
KUOA 1260 5000	KWYO 1370 100	WAIM 1200 100
Siloam Springs, Ark.	Sheridan, Wyo.	Anderson, S. C.
KUSD 890 500	KXA 760 250	WAIR 1250 250
Vermillion, S. Dak.	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
Atchison, Kans.	El Centro, Calif.	Zanesville, Ohio
KVCV 1200 100	KXOK 1250 1000	WAML 1310 100
Redding, Calif.	St. Louis, Mo.	Laurel, Miss.
KVEC 1200 100	KXRO 1310 100	WAPT 1140 5000
San Luis Obispo, Cal.	Aberdeen, Wash.	Birmingham, Ala.
KVGB 1370 100	KXYZ 1440 1000	WAPO 1420 100
Great Bend, Kans.	Houston, Texas	Chatanooga, Tenn.
KVI 570 1000	KYA 1230 1000	WARD 1400 500
Tacoma, Wash.	San Francisco, Calif.	Brooklyn, N. Y.
KVIC 1310 100	KYCA 1500 100	WASH 1270 500
Victoria, Texas	Prescott, Ariz.	Grand Rapids, Mich.
KVNU 1500 100	KYOS 1040 250	WATL 1370 100
Logan, Utah	Merced, Calif.	Atlanta, Ga.
KVOA 1260 1000	KYSM 1500 100	WATR 1190 100
Tucson, Ariz.	Mankato, Minn.	Waterbury, Conn.
KVOD 920 500	KYW 1020 10000	WAVE 940 1000
Denver, Colo.	Philadelphia, Pa.	Louisville, Ky.
KVOE 1500 100	TGO 1450 200	WAWZ 1350 500
Santa Ana, Calif.	Quezaltenango, Guat.	Zarephath, N. J.
KVOL 1310 100	TGW 1520 1000	WAYX 1200 100
Lafayette, La.	Guatemala City, Guat.	Waycross, Ga.
KVOO 1140 25000	TGX 1400	WAZL 1420 100
Tulsa, Okla.	Guatemala City, Guat.	Hazelton, Pa.
KVOR 1270 1000	TG1 1305	WBAA 890 500
Colo. Springs, Colo.	Guatemala City, Guat.	West Lafayette, Ind.
KVOS 1200 100	TIX 650 1000	WBAL 760 2500
Bellingham, Wash.	San Jose, Costa Rica	Baltimore, Md.
KVOX 1310 100	VAS 685 2000	WBAL 1060 10000
Moorhead, Minn.	Glace Bay, N.S.	Baltimore, Md.
KVRS 1370 100	VOAC 1065 40	WBAP 800 50000
Rock Springs, Wyo.	St. John's Nfld.	Fort Worth, Texas
KVSO 1210 100	VOCM 1006 200	WBAX 1210 100
Ardmore, Okla.	St. John's Nfld.	Wilkes-Barre, Pa.
KWBG 1420 100	VOGY 840 400	WBBC 1400 500
Hutchinson, Kans.	St. John's Nfld.	Brooklyn, N. Y.
KWEW 1500 100	VONF 1195 500	WBBL 1210 100
Hobbs, N. Mex.	St. John's Nfld.	Richmond, Va.
KWFT 620 250	VOWR 681 500	WBMM 770 50000
Wichita Falls, Texas	St. John's Nfld.	Chicago, Ill.
KWG 1200 100	WAAB 1410 500	WBRR 1300 1000
Stockton, Calif.	Boston, Mass.	Brooklyn, N. Y.
KWJB 1210 100	WAAF 920 1000	WBZZ 1200 100
Globe, Ariz.	Chicago, Ill.	Ponca City, Okla.

NORTH AMERICAN B. C. STATIONS BY CALLS

WBCM 1410	500	WCBM 1370	100	WDRC 1330	1000
Bay City, Mich.		Baltimore, Md.		Hartford, Conn.	
WBEN 900	1000	WCBS 1420	100	WDWM 1200	100
Buffalo, N. Y.		Springfield, Ill.		Superior, Wis.	
WBEO 1310	100	WCCO 810	50000	WDSU 1250	1000
Marquette, Mich.		Minneapolis, Minn.		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.		Charleston, W. Va.		Tuscola, Ill.	
WBIL 1100	5000	WCHV 1420	100	WEAF 660	50000
New York, N. Y.		Charlottesville, Va.		New York, N. Y.	
WBLK 1370	100	WCKY 1490	10000	WEAN 780	1000
Clarksburg, W. Va.		Covington, Ky.		Providence, R. I.	
WBLV 1210	100	WCLE 610	500	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.	
WBNS 1430	1000	WCLS 1310	100	WEBO 1210	100
Columbus, Ohio		Toliet, Ill.		Harrisburg, Ill.	
WBNX 1350	1000	WCMI 1310	100	WEBR 1310	100
New York, N. Y.		Ashland, Ky.		Buffalo, N. Y.	
WBNY 1370	100	WCNW 1500	100	WEDC 1210	100
Buffalo, N. Y.		Brooklyn, N. Y.		Chicago, Ill.	
WBOQ 860	50000	WCOA 1340	500	WEED 1420	100
New York, N. Y.		Pensacola, Fla.		Rocky Mount, N. C.	
WBOW 1310	100	WCOC 880	1000	WEEL 590	1000
Terre Haute, Ind.		Meriden, Miss.		Boston, Mass.	
WBRB 1210	100	WCOL 1210	100	WEU 830	1000
Real Bank, N. J.		Columbus, Ohio		Reading, Pa.	
WBRC 930	1000	WCOP 1120	500	WELI 900	500
Birmingham, Ala.		Boston, Mass.		New Haven, Conn.	
WBRE 1310	100	WCOU 1210	100	WELL 1420	100
Wilkes-Barre, Pa.		Lewiston, Maine		Battle Creek, Mich.	
WBRK 1310	100	WCOV 1210	100	WEMP 1310	100
Pittsfield, Mass.		Montromerv. Ala.		Milwaukee, Wis.	
WBRV 1530	1000	WCPO 1200	100	WENR 870	50000
Waterbury, Conn.		Cincinnati, Ohio		Chicago, Ill.	
WBT 1080	50000	WCRW 1210	100	WENY 1200	250
Charlotte, N. C.		Chicago, Ill.		Elmira, N. Y.	
WBTM 1370	100	WCSC 1360	500	WEOA 1370	100
Danville, Va.		Charleston, S. C.		Evansville, Ind.	
WBZ 990	50000	WCSH 940	1000	WESG 850	1000
Boston, Mass.		Portland, Me.		Elmira, N. Y.	
WBZA 990	1000	WDAE 1220	1000	WEST 1200	100
Springfield, Mass.		Tampa, Fla.		Easton, Pa.	
WCAD 1220	500	WDAF 610	1000	WEVD 1300	1000
Canton, N. Y.		Kansas City, Mo.		New York, N. Y.	
WCAE 1220	1000	WDAH 1310	100	WEW 760	1000
Pittsburgh, Pa.		El Paso, Texas		St. Louis, Mo.	
WCAL 760	1000	WDAN 1500	250	WEXL 1310	50
Northfield, Minn.		Danville, Ill.		Royal Oak, 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.		New York, N. Y.	
WCAP 1280	500	WDBJ 930	1000	WFAM 1200	100
Asbury Park, N. J.		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
Burlington, Vt.		Waterbury, Vt.		Altoona, Pa.	
WCAZ 1070	100	WDGY 1180	1000	WFBL 1360	1000
Carthage, Ill.		Minneapolis, Minn.		Syracuse, N. Y.	
WCBA 1440	500	WDNC 1500	100	WFBN 1230	1000
Allentown, Pa.		Durham, N. C.		Indianapolis, Ind.	
WCBD 1080	5000	WDOD 1280	1000	WFBR 1270	500
Chicago, Ill.		Chattanooga, Tenn.		Baltimore, Md.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WFDF 1310 100	WHAM 1150 5000	WIBM 1370 400
Flint, Mich.	Rochester, N. Y.	Jackson, Mich.
WFEA 1340 500	WHAS 820 50000	WIBU 1210 100
Manchester, N. H.	Louisville, Ky.	Poynette, Wis.
WFIL 560 1000	WHAT 1310 100	WIBW 580 1000
Philadelphia, Pa.	Philadelphia, Pa.	Topeka, Kans.
WFLA 620 1000	WHAZ 1300 1000	WIBX 1200 100
Tampa, Fla.	Troy, N. Y.	Utica, N. Y.
WFMD 900 500	WHB 860 1000	WICA 940 250
Frederick, Md.	Kansas City, Mo.	Ashtabula, Ohio
WFMJ 1420 100	WHBB 1500 100	WICC 600 500
Youngstown, Ohio	Selma, Ala.	Bridgeport, Conn.
WFOR 1370 100	WHBC 1200 100	WIL 1200 100
Hattiesburg, Miss.	Canton, Ohio	St. Louis, Mo.
WFOY 1210 100	WHBF 1210 100	WILL 580 1000
St. Augustine, Fla.	Rock Island, Ill.	Urbana, Ill.
WFTC 1200 100	WHBI 1250 1000	WILM 1420 100
Kinston, N. C.	Newark, N. J.	Wilmington, Del.
WGAL 1500 100	WHBL 1300 250	WIND 560 1000
Lancaster, Pa.	Sheboygan, Wis.	Gary, Ind.
WGAN 640 500	WHBQ 1370 100	WINS 1180 1000
Portland, Me.	Memphis, Tenn.	New York, N. Y.
WGAR 1450 500	WHBU 1210 100	WIOD 610 1000
Cleveland, Ohio	Anderson, Ind.	Miami, Fla.
WGAU 1310 100	WHBY 1200 100	WIP 610 1000
Athens, Ga.	Green Bay, Wis.	Philadelphia, Pa.
WGBB 1210 100	WHDF 1370 100	WIRE 1400 1000
Freeport, N. Y.	Calumet, Mich.	Indianapolis, Ind.
WGBF 630 500	WHDH 830 1000	WIS 560 1000
Evansville, Ind.	Boston, Mass.	Columbia, S. C.
WGBI 880 500	WHDL 1400 250	WISN 1120 250
Scranton, Pa.	Olean, N. Y.	Milwaukee, Wis.
WGCM 1210 100	WHEB 740 250	WJAC 1310 100
Gulfport, Miss.	Portsmouth, N. H.	Johnstown, Pa.
WGES 1360 500	WHEC 1430 500	WJAG 1060 1000
Chicago, Ill.	Rochester, N. Y.	Norfolk, Neb.
WGH 1310 100	WHEF 1500 100	WJAR 890 1000
Newport News, Va.	Kosciusko, Miss.	Providence, R. I.
WGIL 1500 250	WHFC 1420 100	WJAS 1290 1000
Galesburg, Ill.	Cicero, Ill.	Pittsburgh, Pa.
WGL 1370 100	WHIO 1260 1000	WJAX 900 1000
Fort Wayne, Ind.	Dayton, Ohio	Jacksonville, Fla.
WGN 720 50000	WHIP 1480 5000	WJBC 1200 100
Chicago, Ill.	Hammond, Ind.	Bloomington, Ill.
WGNV 1210 100	WHIS 1410 500	WJBK 1500 100
Newburgh, N. Y.	Bluefield, W. Va.	Detroit, Mich.
WGPC 1420 100	WHJB 620 250	WJBL 1200 100
Albany, Ga.	Greensburg, Pa.	Decatur, Ill.
WGR 550 1000	WHK 1390 1000	WJBO 1120 500
Buffalo, N. Y.	Cleveland, Ohio	Baton Rouge, La.
WGRC 1370 250	WHKC 640 500	WJBW 1200 100
New Albany, Ind.	Columbus, Ohio	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.	Virginia, Minn.	Jackson, Miss.
WGTM 1310 100	WHLS 1370 250	WJEJ 1210 100
Wilson, N. C.	Port Huron, Mich.	Hagerstown, Md.
WGVA 1050 1000	WHN 1010 1000	WJIM 1210 100
Indianapolis, Ind.	New York, N. Y.	Lansing, Mich.
WGY 790 50000	WHO 1000 50000	WJJJ 1130 20000
Schenectady, N. Y.	Des Moines, Iowa	Chicago, Ill.
WHA 940 5000	WHOM 1450 250	WJMC 1210 250
Madison, Wis.	Jersey City, N. J.	Rice Lake, Wis.
WHAI 1210 250	WHP 1430 500	WJMS 1420 100
Greenfield, Mass.	Harrisburg, Pa.	Ironwood, Mich.
WHAL 950 500	WIBA 1280 1000	WJNO 1200 100
Saginaw, Mich.	Madison, Wis.	W. Palm Beach, Fla.
	WIBG 970 100	
	Glenside, Pa.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WJR 750 50000	WLNH 1310 100	WNAD 1010 1000
Detroit, Mich.	Laconia, N. H.	Norman, Okla.
WJRD 1200 250	WLS 870 50000	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.	New Britain, Conn.
WJTN 1210 100	WLVA 1200 100	WNBZ 1500 100
Jamestown, N. Y.	Lynchburg, Va.	Binghamton, N. Y.
WJW 1210 100	WLW 700 500000	WNBH 1310 100
Akron, Ohio	Cincinnati, Ohio	New Bedford, Mass.
WJZ 760 50000	WMAL 630 250	WNBX 1260 500
New York, N. Y.	Washington, D. C.	Springfield, Vt.
WKAQ 1240 1000	WMAQ 670 50000	WNBZ 1290 100
San Juan, P. R.	Chicago, Ill.	Saranac Lake, N. Y.
WKAR 850 1000	WMAS 1420 100	WNEL 1290 1000
East Lansing, Mich.	Springfield, Mass.	San Juan, P. R.
WKAT 1500 100	WMAZ 1180 1000	WNEW 1250 1000
Miami Beach, Fla.	Macon, Ga.	New York, N. Y.
WKBB 1500 100	WMBC 1420 100	WNLC 1500 100
East Dubuque, Ill.	Detroit, Mich.	New London, Conn.
WKBH 1380 1000	WMBD 1440 1000	WNOX 1010 1000
LaCrosse, Wis.	Peoria, Ill.	Knoxville, Tenn.
WKBN 570 500	WMBF 610 1000	WNYC 810 1000
Youngstown, Ohio	Miami, Fla.	New York, N. Y.
WKBO 1200 100	WMBG 1350 500	WOAI 1190 50000
Harrisburg, Pa.	Richmond, Va.	San Antonio, Texas
WKBV 1500 100	WMBH 1420 100	WOC 1370 100
Richmond, Ind.	Joplin, Mo.	Davenport, Iowa
WKBW 1480 5000	WMBI 1080 5000	WOCB 1210 100
Buffalo, N. Y.	Chicago, Ill.	Cape Cod, Mass.
WKBZ 1500 100	WMBO 1310 100	WOI 640 5000
Muskegon, Mich.	Auburn, N. Y.	Ames, Iowa
WKEU 1500 100	WMBR 1370 100	WOKO 1430 500
Griffin, Ga.	Jacksonville, Fla.	Albany, N. Y.
WKOK 1210 100	WMBS 1420 250	WOL 1310 1000
Sunbury, Pa.	Uniontown, Pa.	Washington, D. C.
WKRC 550 1000	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.	New York, N. Y.	Owensboro, Ky.
WKY 900 1000	WMEX 1500 100	WOMT 1210 100
Oklahoma City, Okla.	Boston, Mass.	Manitowoc, Wis.
WKZO 590 1000	WMFD 1370 100	WOOD 1270 500
Kalamazoo, Mich.	Wilmington, N. C.	Grand Rapids, Mich.
WLAC 1470 5000	WMFF 1310 100	WOPI 1500 100
Nashville, Tenn.	Plattsburg, N. Y.	Bristol, Tenn.
WLAK 1310 100	WMFG 1210 100	WOR 710 50000
Lakeland, Fla.	Hibbing, Minn.	Newark, N. J.
WLAP 1420 100	WMFJ 1420 100	WORC 1280 500
Lexington, Ky.	Dayton Beach, Fla.	Worcester, Mass.
WLAW 680 1000	WMPO 1370 100	WORK 1320 1000
Lawrence, Mass.	Decatur, Ala.	York, Pa.
WLB 760 1000	WMFR 1200 100	WORL 920 500
Minneapolis, Minn.	High Point, N. C.	Boston, Mass.
WLBC 1310 100	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.	Fairmont, W. Va.	New York, N. Y.
WLBZ 620 500	WMPC 1200 100	WOW 590 1000
Bangor, Me.	Lapeer, Mich.	Omaha, Neb.
WLEU 1420 100	WMPS 1430 500	OWO 1160 10000
Erie, Pa.	Memphis, Tenn.	Fort Wayne, Ind.
WLLH 1370 100	WMSD 1420 100	WPAD 1420 100
Lawrence, Mass.	Sheffield, Ala.	Paducah, Ky.
WLLH 1370 100	WMT 600 1000	WPAP 1420 100
Lowell, Mass.	Cedar Rapids, Iowa	Parkersburg, W. Va.
	WNAC 1230 1000	WPAX 1210 100
	Boston, Mass.	Thomasville, Ga.

NORTH AMERICAN B. C. STATIONS BY CALLS

WPAY 1370	100	WSAN 1440	500	WTAR 780	1000
Portsmouth, Ohio		Allentown, Pa.		Norfolk, Va.	
WPEN 920	1000	WSAR 1450	1000	WTAW 1120	500
Philadelphia, Pa.		Fall River, Mass.		College Station, Tex.	
WPG 1100	5000	WSAU 1370	100	WTAX 1210	100
Atlantic City, N. J.		Wausau, Wis.		Springfield, Ill.	
WPIC 780	250	WSAV 1310	100	WTBO 800	250
Sharon, Pa.		Savannah, Ga.		Cumberland, Md.	
WPRA 1370	100	WSAY 1210	100	WTCN 1250	1000
Mayaguez, P. R.		Rochester, N. Y.		Minneapolis, Minn.	
WPRO 630	500	WSAZ 1190	1000	WTEL 1310	100
Providence, R. I.		Huntington, W. Va.		Philadelphia, Pa.	
WPRP 1420	100	WSB 740	50000	WTHT 1200	100
Ponce, P. R.		Atlanta, Ga.		Hartford, Conn.	
WPTF 680	5000	WSBC 1210	100	WTIC 1040	5000
Raleigh, N. C.		Chicago, Ill.		Hartford, Conn.	
WQAM 560	1000	WSBT 1360	500	WTJS 1310	100
Miami, Fla.		South Bend, Ind.		Jackson, Tenn.	
WQAN 880	500	WSFA 1410	500	WTMJ 620	1000
Scranton, Pa.		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.	
WRAC 1370	100	WSLI 1420	100	WTOL 1200	100
Williamsport, Pa.		Jackson, Miss.		Toledo, Ohio	
WRAW 1310	100	WSM 650	50000	WTRC 1310	100
Reading, Pa.		Nashville, Tenn.		Elkhart, Ind.	
WRAX 920	1000	WSMB 1320	1000	WVFW 1400	500
Philadelphia, Pa.		New Orleans, La.		Brooklyn, N. Y.	
WRBL 1200	100	WSMK 1380	200	WWAE 1200	100
Columbus, Ga.		Dayton, Ohio		Hammond, Ind.	
WRC 950	1000	WSNJ 1210	100	WWJ 920	5000
Washington, D. C.		Bridgeton, N. J.		Detroit, Mich.	
WRDO 1370	100	WSOC 1210	100	WWL 850	10000
Augusta, Me.		Charlotte, N. C.		New Orleans, La.	
WRDW 1500	100	WSPA 920	1000	WWNC 570	1000
Augusta, Ga.		Spartanburg, S. C.		Asheville, N. C.	
WREC 600	1000	WSPD 1340	1000	WWRL 1500	100
Memphis, Tenn.		Toledo, Ohio		Woodside, N. Y.	
WREN 1220	1000	WSPR 1140	500	WWSW 1500	100
Lawrence, Kans.		Springfield, Mass.		Pittsburgh, Pa.	
WRGA 1500	100	WSUI 880	500	WWVA 1160	5000
Rome, Ga.		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	W3KDD	50000
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
Dallas, Texas		Syracuse, N. Y.		Pituaana, 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
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	WTAM 1070	50000	XEAM 750	25
Grove City, Pa.		Cleveland, Ohio		Matamoros, Tams.	
WSAL 1200	250	WTAQ 1330	1000	XEAO 660	250
Salisbury, Md.		Green Bay, Wis.		Mexicali, B. C.	

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 abbreviations 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. 1290 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 Holliday. *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, Calif., 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.
- KERN, Bakersfield, Calif. 1370 kcs., 100 w. unltd. time. *Network:* National Red and Blue; California. *Aerial:* vertical, 251 ft. *Manager:* Robert Stoddard. *Address:* McClatchey Broadcasting 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.
- KEX, 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 Bldg.
- KFAB, 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, 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.*
- KFAC, Los Angeles, Calif., 1300 kcs., 1000 w., unltd. time. *Transmitter:* 8581 W. 18th St. *Aerial:* 2 towers, 140 ft. *Manager:* Calvir 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, *a former station in Denver, Colo. 1079 kcs., 500 w., Western Radio Corp.*
- KFAJ, *a former station in Boulder, Colo. 1150 kcs., 100 w., University of Colorado.*
- KFAM, St. Cloud, Minn. 1420 kcs., 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.*
- KFAN, *a former station in Moscow, Idaho. 1300 kcs., 50 w., University of Idaho.*
- KFAR, Fairbanks, Alaska. Under Construction. To work on 610 kcs., 1000 w., unltd. 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, unltd. 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., unltd. *Owner:* Butte Broadcasting Co., First National Bank Bldg. Mail to P. O. Box 1817. *The call letters KFBB were formerly assigned to a station in Havre, Mont., 1090 kcs., 50 w.*
- 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.*

- KFBI, 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.
- KFBK, Sacramento, Calif., 1490 kcs., 10 kilowatts, unlt'd. time. *Network:* National Red and Blue. *Facsimile:* 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 St.
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. unlt'd. time. *Network:* National Red and Blue. *Aerial:* 2 towers, 200 ft. *Manager:* J. M. Gilham. *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.
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., daytime 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.
- KFH, Wichita, Kans., 1300 kcs., 1000 w. nights, 5 kilowatts to LS, unlt'd. time. *Network:* Columbia. *Aerial:* vertical, 220 ft. *Manager:* Russel L. Lowe. *Licensee:* Radio Station KFH Co., York Rite Temple, 124 1/2 S. Market St.
- KFI, Los Angeles, Calif. 640 kcs., 50,000 w. Unlt'd. time. *Network:* National Red. *Transmitter:* Buena Park. *Aerial:* vertical, 400 ft. *Manager:* Harrison Holliday. *Licensee:* Earle C. Anthony, Inc., 1000 S. Hope St.
- KFIO, Spokane, Wash., 1120 kcs., 100 w., daytime only. *Transmitter:* 526 Riverside Ave. *Aerial:* vertical, 178 ft. *Manager:* Arthur L. Smith. *Licensee:* Spokane Broadcasting Corp., Ziegler Bldg.
- KFIZ, Fond du Lac, Wis., 1420 kcs., 100 w., unlt'd. time. *Transmitter:* 18 W. First St. *Aerial:* 2 towers, 90 ft. *Manager:* Lynn N. Fairbanks. *Licensee:* Reporter Printing Co., Lange Bldg.
- KFJB, Marshalltown, Iowa., 1200 kcs., 100 w. nights, 250 w. days to LS, unlt'd. time. *Aerial:* vertical, 219 ft. *Manager:* Homer Griffith. *Licensee:* Marshall Electric Co., Inc., 1603 W. Main St.
- KFJI, Klamath Falls, Ore., 1210 kcs., 100 w., unlt'd. 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, unlt'd. time. *Aerial:* vertical, 165 ft. *Manager:* Dalton LeMasurier. *Licensee:* University of North Dakota, First National Bank Bldg.
- KFJZ, Fort Worth, Texas. 1370 kcs., 100 w. nights, 250 w. days to LS, unlt'd. time. *Transmitter:* Sunny Hill Dairy Farm, Ft. Worth. *Aerial:* vertical, 155 ft. *Application:* Applied July 26, 1938, for CP to change frequency from 1370 to 930, increase pwr. from 100 (.25) to 500 w. unlt'd. *Manager:* R. S. Bishop. *Licensee:* Fort Worth Broadcasters, Inc., 502 Trinity Life Bldg.
- KFKA, 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
- 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. *Permits:* 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, unlt'd. time. *Networks:* Columbia, Mutual, Central States. *Transmitter:* 4706 S. 48th St., *Aerial:* 2 towers, 80 ft. *Manager:* Don Searle. *Licensee:* Cornbelt Broadcasting Corp., Hotel Lincoln.
- KFOX, Long Beach, Calif. 1250 kcs., 1 kw., unlt'd. time. *Network:* California. *Aerial:* 2 towers, 142 ft. *Permit:* has CP to increase day pwr. to 5 kw. *Manager:* Hal G. Nichols. *Licensee:* Nichols & Warriner, Inc., 1220 E. Anaheim St.
- KFPL, Dublin, Texas, 1310 kcs., 100 w. nights, 250 w. days to LS, unlt'd. time. *Aerial:* vertical, 182 ft. *Manager:* C. B. Baxter. *Licensee:* KFPL Broadcasting Station, 205 Grafton St. Mail to P. O. Box 176.
- KFPW, Fort Smith, Ark., 1210 kcs., 100 w. unlt'd. time. *Licensee:* Southwestern Hotel Co., Goldman Hotel.

(to be continued next month)

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

cent 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 in each State and Territory which I am most anxious to add to my radio log.

Signed	Montana
Alabama	Nebraska
Alaska	Nevada
Arizona	New Hampshire
Arkansas	New Jersey
California	New Mexico
Colorado	New York
Connecticut	North Carolina
Delaware	North Dakota
D. C.	Ohio
Florida	Oklahoma
Georgia	Oregon
Hawaii	Pennsylvania
Idaho	Puerto Rico
Illinois	Rhode Island
Indiana	South Carolina
Iowa	South Dakota
Kansas	Tennessee
Kentucky	Texas
Louisiana	Utah
Maine	Vermont
Maryland	Virginia
Massachusetts	Washington
Michigan	West Virginia
Minnesota	Wisconsin
Mississippi	Wyoming
Missouri	

INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

The Radex Publishing Co.,
289 Queen Anne Road,
Teaneck, N. J.

Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

- One Radio World Map and Time Converter 25c
- One copy of the next RADEX 25c
- One year's subscription to RADEX, 10 issues..... \$1.75
- Two years..... \$3.25 Three years..... \$4.75

(Add 50c per year for foreign subscriptions)

Print Name Plainly

Street and Number

City and State

TIME CONVERTER

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan could have around. Just a twirl of the dial shows the correct time at any location in the world. No calculation is necessary; the dial does all the work.

**You Can't Get Along
Without It.**

The price is only

25c

RADIO AMATEUR CALL BOOK

LATEST EDITION

Lists over 40,000 amateurs in every country in the world, and complete lists of all the high frequency commercial stations. Every listener interested in amateur stations should have one. 292 pages.

We pay the postage.

RADEX
289 Queen Anne Rd.,
TEANECK, N. J.



\$1.25

NEXT MONTH in RADEX

In the November issue of RADEX a complete list of the broadcast band stations of the world will be printed. There will be pictures of European stations and their verifications, and articles written to help you hear these overseas broadcasters.

— RADEX —

More news about The Radex Club and the Verified All Continents Classes.

GET MORE

DX WITH HEADPHONES



WE recommend the famous Trimm line of headphones for DX success. They are precision-built, and combine ultra-sensitivity with rugged construction.

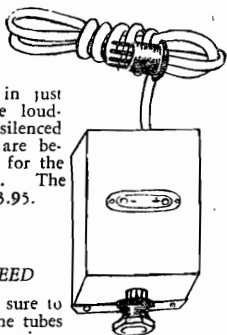
The Trimm "Featherweights" weigh but $4\frac{1}{4}$ ounces complete. 24,000 ohms. **\$8.50**

Trimm "Professional." 4000 ohms. **4.00**

Trimm "Dependable." 2000 ohms. **3.25**

THE PERFECT PHONE ADAPTER

MAKES it easy to attach headphones to any radio set. Easily installed, without tools, in just a minute. The loudspeaker can be silenced while phones are being used. Ideal for the hard-of-hearing. The price is only \$3.95.



**FULLY
GUARANTEED**

In ordering, be sure to give a list of the tubes used in the receiver.

THE RADEX PUBLISHING CO.

289 Queen Anne Rd.
TEANECK, N. J.



J. E. SMITH, President
National Radio Institute
Established 1914

I WILL TRAIN YOU TO START A SPARE TIME OR FULL TIME RADIO SERVICE BUSINESS WITHOUT CAPITAL



Picked up
\$1800 while
Learning



"I picked up \$1800 while studying and I call that easy money—the time I gave my Radio work did not interfere with my other business." OTIS DENTON, 14105 Lorain Ave., Cleveland, Ohio

Own Business
Pays \$300 a
Month



"I now have my own Radio business which shows three hundred dollars a month profit—thanks again to National Radio." FRANK P. REESE, 39 N. Fellon St., Philadelphia, Penna.

The world-wide use of Radio has made many opportunities for you to have a spare time or full time Radio service business of your own. Four out of every five homes in the United States have Radio sets which regularly need repairs, new tubes, etc. Servicemen can earn good commissions selling new sets to owners of old models. Even if you have no knowledge of Radio or electricity, I will train you at home in your spare time to sell, install, fix, all types of Radio sets to start your own Radio business and build it up on money you make in your spare time while learning. Mail coupon for my 64-page book. It's Free—it shows what I have done for others—what I am ready to do for you.

Many Make \$5, \$10, \$15 a Week Extra in Spare Time While Learning

The day you enroll I start sending Extra Money Job Sheets; show you how to do Radio repair jobs. Throughout your training I send plans and directions that made good spare time money—\$200 to \$500—for hundreds, while learning. I send you special Radio equipment to conduct experiments and build circuits. This 50-50 method of training makes learning at home interesting, fascinating, practical. I ALSO GIVE YOU A MODERN PROFESSIONAL, ALL-WAVE, ALL-PURPOSE RADIO SET SERVICING INSTRUMENT to help you make good money fixing Radios while learning and equip you for full time jobs after graduation.

Get Ready Now for Your Own Radio Business and for Jobs Like These

Radio broadcasting stations employ engineers, operators, station managers and

pay up to \$5,000 a year. Fixing Radio sets in spare time pays many \$200 to \$500 a year—full time jobs with Radio jobbers, manufacturers and dealers as much as \$30, \$50, \$75 a week. Many Radio Experts open full or part time Radio sales and repair businesses. Radio manufacturers and jobbers employ testers, inspectors, foremen, engineers, servicemen, and pay up to \$5,000 a year. Automobile, police, aviation, commercial Radio, loud speaker systems are newer fields offering good opportunities now and for the future. Television promises to open many good jobs soon. Men I trained have good jobs in these branches of Radio. Read how they got their jobs. Mail coupon.

Find Out What Radio Offers You

Act Today. Mail the coupon now for Sample Lesson and 64 page book. They're free to any fellow over 16 years old. They point out Radio's spare time and full time opportunities and those coming in Television; tell about my training in Radio and Television; show you letters from men I trained, telling what they are doing and earning. Find out what Radio offers YOU! MAIL COUPON in an envelope, or paste on a postcard—NOW!

J. E. SMITH,
President
Dept. 8KO
National Radio
Institute,
Washington,
D. C.



Get My LESSON on Radio Servicing Tips FREE

I want to prove my Training is just what you need to master Radio. My sample lesson text, "Radio Receiver Troubles—Their Cause and Remedy" covers a long list of Radio receiver troubles in A. C., D. C. battery, universal, auto, T.R.F., super-heterodyne, all-wave, and other types of sets, cross-indexed for quick reference. Special section on receiver checkup, alignment, balancing, neutralizing, testing. Get this lesson. Mail the Coupon.

GOOD FOR BOTH 64 PAGE BOOK SAMPLE LESSON FREE

J. E. SMITH, President, Dept. 8KO
National Radio Institute, Washington, D. C.

Dear Mr. Smith: Without obligating me, send your sample lesson and the book which tells about spare time and full time Radio opportunities, and how I can train for them at home in spare time.
(Please write plainly.)

Name..... Age.....

Address.....

City..... State.....