# THE DIALIST

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OF THE
NEWARK NEWS RADIO CLUB

1934



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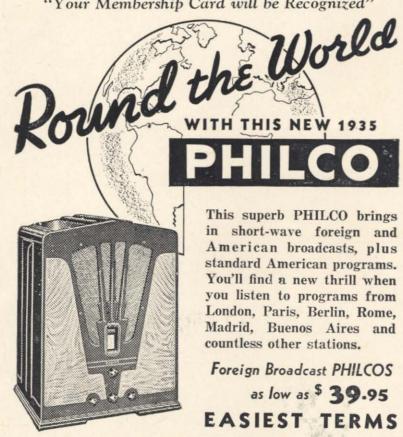
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# The Dialist

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Although somewhat early to do any dependable predicting, a good many old timers are convinced that this DX season will be one of the best on record. While static has been severe at times signal strength of distant stations has been unusually good and it is logical to presume that listening conditions will improve as the weather grows colder.

Listeners along the Atlantic seaboard have been amazed to receive almost daily, between 5 and 6 P. M., Poste Parisien, 960 kilocycles, Paris, France with unbelievable volume. The programs, sponsored by an English firm, are announced in French and English and musical selections are familiar enough to make it easy to record more than sufficient verification material. Invariably, Poste Parisien asks its audience to tune to Radio Normandie, Fecamp, France, after it (Poste Parisien) signs off at 6 P. M., EST.

TGW, Guatemala City, has been a consistent visitor to North America, Sunday mornings between 4 and 6 EST. Our Central American friends have become popular with DXers as a result of their excellent programs, featuring marimba bands, and their courteous attention to letters and reports of reception.

#### SOUTH AMERICANS GOOD

LS2, Buenos Aires, has been heard regularly in all sections of the northern hemisphere. Radio Excelsior LR5, also in Buenos Aires, transmitted a program for The Newark News Radio Club Sunday morning, November 4, from 2.05 to 3.05, EST, and came through in its customary good form. Reception was so good that DXers were able to record every feature of the entire broadcast. LR5 will be on for the NNRC the first Sundays of December, January and February at the time mentioned above.

The Australians seem to be perking up too and the Pacific Coasters are better than ever.

Robert E. Base, 4105 Alto Road, Baltimore, reports reception of his first 50 watt West Coaster, CFCT, Victoria, B. C., the morning of October 28. Other recent catches are WATR, XEFI, KADA, 4BC, 4BH, XEAF and WHJB. Bob says the two Australians were received

the same morning between 4.45 and 5.30, EST. Latest verifications are from CJLS and CJRC.

Submitting his initial report of the season, Donald S. Voorhies, 1717 East 19th Street, Brooklyn, informs us that fifteen additions, WMEX, CKTB, WLNH, WRJN, WEED, WMBR, WAGF, KMLB WHEF WBNO, WGPC, WBNS, WJIM, LS2 and 2BL have increased his log total to 677, while confirmations from WRIN, CKTB, WJAG, WBNS, WJIM, WEED, WHEF, WMBR, WTJS, WAGF and WSJS bring his verifications up to 425. WMEX, which has so far failed to answer so many reports of reception, and WLNH are still outstanding. Don expresses his appreciation of the work of our courtesy programs committee and requests that a fellow-Brooklynite, William Wheatley, be supplied with a membership application.

Lloyd Westmoreland, NNRC member, 2313 McIntyre Street, Regina, Sask., conducts a DX program over CKCK, that city every Saturday morning from 12.15 to 12.30, EST, during which time DX tips submitted by the various clubs are broadcast. Writing to Chairman Louis Hahn of our courtesy programs committee, Lloyd says: "I logged KGU, Honolulu, the morning of October 4 and received their verification the 19th." October 21 was a red letter DX day for Lloyd as he added LR2, LR4, LR8 and LS2.

Charles Martin, 227-11 Burgoyne avenue, Springfield, Long Island, writes that he listened to CJRC's recent NNRC program and enjoyed it immensely. Charlie installed a new antenna system, 200 feet long, a short time ago and used it with excellent results October 24 when he logged 3AR, 3LO, 2UE, all sufficiently good for verification material, and several others nearer home. He adds: "I think that J. W. Brauner, Williamsville, N. Y., has about the most complete log of U. S., stations heard and verified. All J. W. needs are KSUN, KMED and KRKO to complete the roster of active stations."

DXing in Waterbury, Conn., has been pretty fair recently and Howard Kemp has been doing a land office business both on the long and short waves. TGW and KWSC are his best BC bets while on the short waves he has snared RKI, CBX, COH, WON, CM2WZ, JVT, WOF, JVF, OCI, PHI, WKK, YVR, YDA, PCJ and CM6XS. Howard lists WEED and WSGN among his quick verifiers and informs us that W1XBS, 1530 kcs., Waterbury, officially came on the air November 2, with an elaborate inaugural program.

Alec Kinghorn, Apartado 2488, Havana, is DXing with an all-wave Philco and an aerial 200 feet high and expects to report some good ones in the near future. He advises that there is no Cuban station with the call CMCM but that several "pirate" stations are operating in Havana at present. They are not easily identified as they use no call letters.

Although static has been rather heavy out in Redlands, Cal., Barbara Rogers, NNRC representative in that town, has managed to add several good ones to her log including, WWL, KWYO, CMQ, XEAF, XEAW, CKMO and WPTF. Barbara has a boss who is DX mindedwhen she intends to spend a night at the dial her employer allows her to report at the office later than usual the next morning so she can catch up on sleep.

While on a visit to the South a short time ago, Everettt H. Colburn, 273 West Main street, Ilion, N. Y., called at the studios of WBTM, Danville, and WRBX, Roanoke, Va., and received a cordial welcome at both places. Although "Ev" has been a member of the club since 1930 he has never written a DX report but he now tells us that his log includes 564 stations including thirty-nine 2000 milers. LR5 and Poste Parisien are his overseas catches. Like Lester Kraemer, it has never been his experience to receive a 100 watter 2,000 miles distant.

# DJC SPECIAL

Through arrangement with Charles O'Brien, 107 Kensington avenue, Jersey City, DJC, Zeesen, Germany, will broadcast a special program for the NNRC November 24 from 9:15 to 10:30 P. M., EST. Our friends across the sea have lined up an exceptionally fine program for the occasion and are anxious for reports from listeners in this country and Canada. Charlie lists WJTL, WAGF, WNEL, WGPC, WBNO, W8BLT and W1XBS as his latest additions—all heard the morning of November 6.

Those DXers who are having trouble securing their verifications from KADA, Ada, Okla., are advised by Ray E. Everly, (The Sun Dodger) 102 West Washington Street, Newton, Ill., to write

to its Chief Engineer, Bob Taylor. Mr. Taylor, formerly operator at WJSV and WBZ and chief operator at WDBJ and WJEJ, is a dyed-in-wool DX fan and is in sympathy with the dial twisters' activities. Incidentally, KADA is on the air almost every morning after 2, EST. Ray reports reception of LR5 and KWYO the morning of November 4 and verifications from CJAT and XEM. He adds: "Those LR5 broadcasts are sure great stuff; more power to our CPC."

The South Norwalk Conn., DXing duo, Robert Musson and Henry Moeller, write that they logged LR5, VE9EK, TGW and KGER November 4.

CHAB, Moose Jaw, Sask., inform Vice President W. H. Applegate, Chicago, of a series of DX tests the first Sunday of each month from 2 to 4 A. M., EST, beginning December 2 and concluding in March. An hour of the December 2 broadcast will be dedicated to the NNRC and the other to the CDXR while the one in January will be for the NNRC; February for the CDXR and the final one in March to both.

Mr. Applegate has completed arrangements with CKGB, CJKL and CFCH for an NNRC series the morning of November 25. To be known as "The Northern Broadcasting Company Frolic for The Newark News Radio Club," it will begin at 2 A. M., EST, with an hour program by CKGB, 1420 kcs., Timmins, Ont., followed by CJKL, 1310 kcs., Kirkland Lake, Ont., at 3, and CFCH, 930 kcs., North Bay Ont., at 4. DXers are indebted to Directors C. W. Wright, CKGB; Brian G. Shellon, CJKL, and to an old friend, Tom Darling of CFCH.

CKOV, Kelowna, B. C., have installed a new 100 watt, 100 per cent modulated Marconi transmitter and are on the air every Sunday morning from 3.30 to 5, EST. A half hour of each program is dedicated to The Newark News Radio Club. Managing Director J. W. B. Browne informs Mr. Applegate that any delay in sending out verifications is due to the fact they have been swamped with reports. Mr. Browne will appreciate hearing from NNRCers.

WNEL, San Juan, Puerto Rico, were on with a frequency check at 4 A. M., EST, November 6. It is quite possible that hereafter they will be testing the first Tuesday at the aforementioned time.

According to Vice President Phil Nichols, XEYZ, Avenue Juarez 48, Mexico City, are anxious for reports of reception and verify promptly.

# FLASH LINES

George Burns and Gracie Allen will pack their duds and hurry out to Hollywood about the middle of this month to start a new picture; their program on the 21st will be broadcast from KHJ, Los Angeles. . . Because Johnny Green bet him he wouldn't dare raise a goatee, Stephen Fox, Columbia leading man, has grown one and since it sprouted he's had to turn down two parts in Broadway productions calling for smooth-faced gents.
... Myrt and Marge celebrated their third year on the CBS network Friday, November 2, their thousandth performance November 5. . . . Gertrude Niesen, famed in Broadway's night spots for her exotic voice and dress, often gets up at 5 A. M., dons a turtle-neck sweater, rubber boots and old riding jeans to go fishstations associated with the Columbia Broadcasting System, but by flipping a half-inch switch in its master-control room in New York all outlets can be linked together in 30 seconds. . . . Poley McClintock of the frog-like voice in Fred Waring's band really sings high tenor in the solemn glee club specialties. . . . Despite her avoirdupois, Kate Smith is an aquatic whiz; she swims all strokes speedily, dives from high boards, aquaplanes and holds several life-saving awards. . . . Gracie Allen, who always talks about her little blue hat, has dozens of chapeaux, but not one is blue. . . . Michael Strange, the former Mrs. John Barrymore, played a part in a recent American School of the Air dramatization. . . . On the radio recently Ted Husing picked the winners in sixteen football games and Saturday's results gave him a perfect record.... But he didn't bet on 'em! ... Because Danny Cahill, night elevator operator in the CBS New York studios, knows so many radio celebs by their first name, some autograph-seekers now are asking for his signature. . . . Roxy, head man of the CBS "Roxy and his Gang" broadcasts, can't read a note of music, yet he conducts the large orchestra and chorus on his programs. . . . He has been in the business so long he knows music thoroughly without being able to read the notes. . . . Ronne, one of Little America's canine radio artists, is glad television is still around that corner because numerous battles in "Dog Town" have left his formerly handsome countenance all scarred and scratched. . . After every microphone announcement Fred Waring unconsciously jerks his head as though he were saying, "So, there." . . Lud Gluskin not only has a "continental" orchestra but a "continental" home as well. with a Viennese wife who speaks German and a Belgian griffon, named Kiki, that only answers to French... Buddy



Lou Holts, famous comedian and long a Broadway favorite, is building an extensive radio following through his frequent guest performances on Rudy Vallee's program over a coast-to-coast network Thursday night at 8 P. M. E.S.T.

Rogers of the "Family Theatre" program will go to England soon to make a movie. . . . Charlie of Columbia's Chicago team, Gene and Charlie, has his arm in a sling because he tripped getting out of his car the other day. . . Art Kassel and his Kassels in the Air Orchestra are making records of a lot of new tunes, including one from Bing Crosby's latest picture, "Here Is My Heart."

All along the line there has been a tightening-up in the issuance of verifications. Many broadcasters are becoming fed up with the DX fan who writes: "I heard your station, the program was fine. Please send me a veri." Announcing that CJAT, Trail, British Columbia, will transmit a special program in honor of the NNRC from 12:01 to 3 A. M., EST., December 9, Manager T. G. Robinson requests Vice-President Applegate to inform DXers they require at least three musical numbers or announcements, and that they do not verify chain program reports. Mr. Robinson's stand will be endorsed by every right-thinking DXer.

# GLEANINGS FROM EVERYWHERE

Broadcasts to and from the Byrd Antarctic Expedition which have been heard over a coast-to-coast WABC-Columbia network since November, 1933, will be continued Wednesdays from 10 to 10.30 P. M., E. S. T., under a contract renewal effective Wednesday, November 14. At present five tractor and sledge parties are exploring the interior of the Antarctic. A giant Condor biplane is being prepared for a flight over the South Pole region in the near future. Reports of these adventures will be made during the regular weekly broadcasts.

Radio stations WCOA, Pensacola, Fla., and WOC, Davenport, Iowa, have been added to the Columbia Broadcasting System. There are now 102 outlets associated with the chain. Seven years ago, the original Columbia network consisted of sixteen stations. WCOA is owned and operated by the Pensacola Broadcasting Company in the San Carlos Hotel, has 500 watts power and broadcasts on a frequency of 1340 kilocycles, 233.7 meters. Beginning November 11, WOC will carry Columbia programs on a permanent basis. This station operates on 1420 kilocycles, 211.1 meters, and is owned by the Palmer School of Chiropractic, Davenport, Io.

Roxy, pioneer showman of the air, will observe the 12th anniversary of his radio debut in his broadcast Saturday, November 17, from 8 to 8:45 P. M., E. S. T., over the nationwide WABC-Columbia network. Early in November, 1922, Roxy heard a broadcast for the first time and was highly impressed with radio's future possibilities as an entertainment medium. Two weeks later he stepped to a microphrone for the first time to introduce his 'gang" to the relatively few listeners, whose possession of crystal sets as a hobby made them objects of neighborhood interest and curiosity. That first broadcast, originating at the Capitol Theatre, New York, of which Roxy was then manager, was the first broadcast from a theatre stage. The occasion also marked the birth of Roxy's now familiar sign-off phrase, "Goodnight, pleasant dreams, God bless you," the words he ad-libbed in confusion when he forgot his carefully prepared closing announcements under stress of emotion.

For twelve years Mr. and Mrs. Clyde Boswell paid Professor Otto Finck to teach their daughters, Connie, Vet and Martha, all he knew about the violin, 'cello and piano. These fond parents fully expected that their offspring would be one of the foremost string trios in the country, but, as of old, the best laid plans

of mothers and fathers "gang aft agley." Instead, the girls have received top radio billing for the past four years as the hottest of harmonizers and now are heard in contrast to Bing Crosby's crooning each Tuesday over the WABC-Columbia network. It was when Mr. Boswell left their New Orleans home for an extended business trip that these three youngsters, eager to shine in other fields, laid aside their classical trappings. Connie learned to play the sax, Vet strummed a banjo, Martha kept her place at the piano, and before long Brahms had given way to the hottest rhythms. Close upon the heels of this new penchant for jazz came a desire to sing as well, and their latent talent as specialists in vocal harmonies soon came to light. Their distinctive style has brought them far more fame and fortune in radio, screen and stage fields than they could have hoped for as the Boswell String Trio.

Just before signing off every night at midnight, KVI, Tacoma, Wash., an official Newark News Radio Club station, broadcasts its DX tips and news. In addition, KVI's final quarter-hour on the air Thursdays from 11.45 to 12 P.M., PST, is devoted to the club and its activities. H. J. McAllister of KVI's staff and an NNRCer is in charge of these programs.

VOGY, St. Johns, Newfoundland, have scheduled special DX programs November 11 and 25 from 1 to 5 A.M., EST. R. W. Munro, studio director, informs Vice President W. H. Applegate that parts of these broadcasts will be dedicated to The Newark News Radio Club. Located in the Newfoundland Hotel and operating on 840 kcs., VOGY has a 400 watt, Marconi, crystal controlled transmitter which was installed in February, 1934. Previously, the station broadcast with a home-made transmitter built from old ship transmitters.

Ventura, Calif., is evidently an ideal spot for the location of transmitters for the chamber of commerce of that town, according to a news item, has received three applications to establish broadcasting stations there. One has been filed by KMTR, the 250 watter now in Hollywood; another by a San Bernardino resident, while the third came from a group of interested Texans.

# LOOKING AHEAD IN RADIO

By John V. L. Hogan

Past President, Institute of Radio Engineers.

Today we are on the eve of new developments in radio broadcasting. I believe that these forward-reaching applications of modern science and invention will be of interest to you, and I shall try to tell you something about their possibilities.

Since KDKA blazed the famous trail that we all have followed for the past fourteen years, broadcasting has been much the same thing. Station power has generally been on the upward trend, and so there has been some relief from static and other electrical noise. Programs have grown both better and worse, according to one's viewpoint; and the possibility of long distance reception has been favored by the general use of highly selective receiving sets, but definitely set back by the overcrowding of regional and local broadcast channels and by the breakdown of some of our cleared channels. But broadcasting has continued in much the some old way, and, although the technical advances of the past years have been definite and helpful, it would indeed be an optimist who would say that they have been startling.

There are now three new departures in the broadcast field that you should know about. One of them is now with us; the second is about to be realized, and the third is no longer "just around the corner" if my judgment can be considered dependable. I shall tell you a little about all three, taking them up in the reverse order of their availability and therefore beginning with television.

#### TELEVISION

As you know, television broadcasting is linked to everyday broadcasting of speech and music in the same way that our sense of sight is linked with our sense of hearing. The two should carry on together, television giving you living images of the scenes and persons whom you listen to with the aid of your loudspeakers. When you can see by radio, as well as you now hear, the possibilities of the system for entertainment and for interesting information will be multiplied many-fold.

A natural question is: "Why do we not have a television broadcast service to-day?" Of course, the fact is that there are television stations in regular operation today, but all of them are operated experimentally and none of them render a true program service for observers. To my mind, the real reason that no such program services are available to broad-



Buddy Rogers, young screen and radio star, is hitting a new high in popularity in the threefold role of maestro, singer and actor. Rogers and his Dance Programs are now an NBC feature.

cast listeners is that so far there has been no coordinated plan incorporating the three essential elements of such a service. These three elements are: first, an adequate television transmitter having good coverage; second, a source of interesting program material to be televised, and third, a supply of television receivers that can be widely distributed at a reasonable price and which will give sufficiently good reproduction of television pictures to satisfy the user's desire for a service rather than merely to appeal to his curiosity. A further essential, not directly a part of the television operations themselves, is that the picture programs shall be accompanied by synchronized sound from a radio transmitter that will provide at least as good coverage as does the picture transmitter.

In the past five years there have been several commercially-inspired attempts to render a popular television service, but none of them has made a substantial success. If you will analyze any of these attempts, I think you will find they were lacking in at least one of the essentials that I have just outlined; and it seems to me that the failure to provide

all of those important elements is exactly what is accountable for whatever dissatisfaction has resulted.

Perhaps the most striking thing about public television in the past is that the receiving apparatus offered for sale has been relatively crude in performance and high in cost. Even the apertured discs and drums that were put on the market were quite costly, and the lens discs have never been manufactured in quantity to sell at a moderate price. The newer types of optical television receivers, and the cathode ray tube receivers, have never been made available to radio users in satisfactory form. From the engineering point of view, there seems to be little reason why useful television apparatus of these types should remain in the laboratory. While it is always dangerous to attempt to be a prophet, I would like to leave with you the thought that television is on the up-grade. It is quite probable that before very long some forward-looking broadcasters and manufacturers will combine their facilities in such a way as to provide you with a useful and interesting television service.

#### THE RADIO PEN

Turning now to the second of the three topics that I am bringing before you, let me point out that television is not the only way in which our ordinary sound broadcasting may be supplemented to appeal to the sense of sight. Instead of using television to send you fleeting images which leave you nothing but a memory after the program is ended, we may use the Radio Pen facsimile apparatus to deliver to you a series of pictures, diagrams or printed notes that will remain in your hands as tangible records on paper sheets. These records may be illustrations to accompany and explain the talks that you hear by radio, they may be program notes on the music that is played for you, or they may be any of dozens or hundreds of other types of pictorial or printed matter such as news bulletins, weather reports and so on. There seems to be no limit except that of our imaginations as to the vast number of ways in which the visual broadcasting service of the Radio Pen may supplement the audible service of every day broadcasting.

I have told you that this facsimile service is "about to be realized," and I do not think that that is too strong a statement. Of course, there may be many slips between cups and lips, but the fact is that both here in New York and at station WTMJ, Milwaukee, the preliminary work is being done to demonstrate the practical feasibility of broadcasting Radio Pen pictures for direct reproduction on paper in the listeners' homes. Up to date all of our work has been most encouraging, and the difficulties that we have encountered are of the kind that do not seem to be hard to solve. Therefore, I think I can properly say that there is every probability of a home facsimile service being inaugurated, in at least one broadcasting center, within a relatively short time.

## HIGH FIDELITY BROADCASTING

The third of the new things in radio to which I have referred, and which I have said is with us today, is high fidelity broadcasting. Our station W2XR is the first to have equipment that will transmit practically the entire range of audible sound frequencies and to be assigned by the Federal Communications Commission to one of the new

(Continued on Page 38)



Countess Olga Albani, soloist over the NBC-WIZ network Sunday, at 7 P. M. She is in better voice than ever, having recovered from an illness which hampered her singing last spring.

# THE STATION'S VIEW POINT

By A. L. McKee, Manager, WHBU, Anderson, Indiana

How does a DX fan feel towards a broadcasting station and how does the station feel towards the DX fan? Perhaps I am not qualified to answer fully, the first half of that question but I do believe I can present the broadcaster's opinions.

Many, many moons have come and gone since I first read Newark News Radio Club flashes and you may be sure that I have had ample opportunity to witness the hammering of DX fans desiring verifications of reception. Apparently, no station manager has so far, had the nerve or invitation to speak from the other side of the fence but as I have been invited to express my ideas I shall be glad to do so.

Believe it or not, we at the radio stations are human and we want to help DXers in every way possible but there are some things we cannot do. When we receive a letter asking for a dedicatory, DX program we would like to comply and take time out to broadcast for the one who requested it but there are so many such requests that it just cannot be done.

#### UNDESIRABLE REPORTS

When we do go on with a DX broad-cast during the wee small hours of the morning we wonder who is listening in and where. Then we wait prepared to acknowledge and verify reports, In about two days a flock of postal cards roll in. Some of them say: "I heard your program at such and such a time; you played such and such a record. Please verify." Still others say: "Thanks for the program; please verify." Remember, they are postal cards and during our program we suggested that postage should be included for verifications. Yet, we get the cards.

We have had a heck of a time keeping our heads above water what with trying to comply with all the rules and regulations and endeavoring to pay rent, salaries and other expenses. Still, there are question is what to do with them. If the previous month has been good and we have \$1.50 in the bank we usually buy postal cards and acknowledge these reports; or perhaps, we used a printed form. Then we feel that we have satisfied the DXers but shortly afterwards we receive some of the hottest letters that Uncle Sam ever let come through the mail. This of course because there has been some delay in our answers but, we have spent the \$1.50 and have to take it.



Vera Van, popular blond singer, is heard Tuesday and Thursday afternoon over WABC. Between broadcasts, the former West Coast dancer is playing vaudeville engagements.

Then the second batch of mail comes in. These reports are generally in the form of return postal cards, nicely printed and all we have to do is sign them if correct. The fellow who invented that postal card system may not know it but you can believe me he is a friend to every radio station manager in America and it tickles us pink to sign those cards and mail them out. Postage is 90 per cent of the cost of our DX programs and this Fall The Newark News Radio Club will have a much easier time persuading stations to put on DX programs if club rules require return postal cards for verifications.

The third class of reports includes letters some of which are just "thank you's" for the program and they include postage. However, the writers do not give us any more information than a hog knows about Sunday but they expect us to verify. It just isn't in the book and of course we see our names again in the columns.

#### THE CORRECT METHOD

Then there is the DX fan who takes the time to give you the exact title and

(Continued on Page 29)

# WHAT'S ON THE AIR

Approximately half a hundred new commercial programs will be heard on NBC networks this Fall; others now being arranged will be announced in the near future. Included in the schedule are:

Grand Hotel, starring Anne Seymour in a half hour dramatic series is on the WJZ coast-to-coast network each Sun-

day at 6.30 P. M., EST.

The same network presents a series of dramatic dog stories each Sunday from 5.45 to 6 P. M., EST., featuring Albert

Payson Terhune.

A series of stamp and adventure talks featuring Captain Tim Healy is a WEAF network presentation every Monday, Wednesday and Friday from 5.45 to 6

P. M., EST.

Plantation Echoes, a new musical series, featuring Willard Robinson and his Deep River orchestra with Mildred Bailey as soloist, is heard each Monday, Wednesday and Friday from 7.15 to 7.30 P. M., EST., over the WJZ chain.

#### BEN AND THE BOYS

Ben Bernie and "All The Lads" are back on the WEAF network every Tuesday from 9 to 9.30 P. M., EST, with repeat performances for Pacific Coast listeners at midnight, EST.

Ed Wynn, the Fire Chief and wellknown comedian, can be heard (each Tuesday over the WJZ network from 9.30 to 10 P. M., EST.

Dangerous Paradise, a dramatic series starring Elsie Hitz and Nick Dawson has returned to the WJZ network. This feature is on the air Monday, Wednesday and Friday evenings from 7.45 to 8, EST.

"The Story Behind The Claim," a new dramatic series based upon true life insurance stories, is heard each Tuesday from 9.15 to 9.30 P. M., over the WJZ network with repeat performances for West Coast listeners at 1.15 A. M., EST

Lanny Ross's own musical show, with the popular singer and other soloists, is a new WJZ network feature heard each Wednesday from 8.30 to 9 P. M., EST, with repeat performance for Pacific Coast

The Mystery Chef, popular cooking expert, is on the WEAF network every Wednesday and Friday morning from 10

to 10.15 A. M., EST.

Sigmund Romberg, famous composer, and William Lyon Phelps, noted literary critic, in a new full-hour musical pro-

gram, are on the WEAF coast-to-coast network each Saturday at 8 P. M., EST. "Songs You Love," a new musical program starring Rose Bampton, Metropolitan Opera contralto, Billy Hillpot and Scrappy Lambert, and a large orchestra under the direction of Nathaniel Shilkret. is on the WEAF network each Saturday night at 9, EST.



Helen Claire, who last Spring so successfully took the part of Betty Graham in the Civil War series, "Roses and Drums", is again impersonating the daring Southern spy over an NBC-WIZ network Sunday at 5 P. M., E.S.T. Miss Claire is a native of Union Springs, Ala., and the soft inflections of voice, appropriate to the role of Betty, are natural to her.

#### THE BAKERS RETURN

The Bakers Broadcast returns to the air with a half hour program each Sunday night at 7.30, EST, over the WJZ network and features Joe Penner and Ozzie Nelson's orchestra.

"Gems of Melody" is back again on the WEAF network each Sunday from 4 to 4.30 P. M., EST, and on the WJZ chain every Thursday night from 7.15 to 7.45. The Kansas City Symphony Orchestra

is being heard in a new series of half hour concerts over the WJZ chain every Sunday at 4, EST.

A new series featuring the famous comedian, Jack Benny and Mary Livingstone, soloists and an orchestra is on the WEAF network every Sunday evening from 7 to 7.30 with repeat performance for Pacific Coast listeners at midnight.

#### COLUMBIA PROGRAMS

After a Summer's absence from the air, "The Big Show" has returned and is presented by the WABC chain each Monday night from 9.30 to 10, EST, featuring Block and Sully, Gertrude Niesen, torchsongstress, and Lud Gluskin and his continental music.

(Continued on Page 38)

# HIGH FREQUENCY

By Ralph I. Cole

To those of our readers who have already experienced the thrill of building their own broadcast receivers and are looking around for more worlds to conquer, we dedicate this column. And to those more advanced who are already in the thick of the fight we offer an engineer service to assist in solving those perplexing problems that have bothered all of us at one time or another. In so doing we hope to debunk the HIGH FREQUENCY radio field and show the similarities existing in all radio phenomena, creating an interest in what has been to all, save old timers, sacred ground.

Many of us have no doubt heard the expression high frequency and have really wondered just where, if any, a line could be drawn. In the earlier days anything of shorter wavelength than our broadcast band was given that identification and restricted entirely to amateur use. As the need for additional channels became apparent, assignments were made in this region in greater and greater numbers until today the amateur transmitters are limited to a relative narrow band at 150, 80, 40, 20, 10 and 5 meters, not to forget the virgin 75 cms. spectrum.

Of these mentioned, perhaps the last three offer more fascination at the moment due to their peculiar properties, differing considerably from the others to which we are more or less accustomed. To explain the basic differences we must digress for the moment and consider the well-known physical fact, that radio signals coming through space and light rays such as those- from the sun have a lot in common. Both travel in a wave motion, the difference being merely one of wavelength. Now as we employ shorter and shorter waves for our signaling, the characteristics of light are approached, that is to say its range is restricted ot distance known as "line of sight." By this we mean that the maximum distance it would be possible to transmit would be that which is in a

straight line from the transmitter to the receiver. Thus we find that in waves of five meters and below the range of transmission is definitely restricted. Further, we find that it is possible to build apparatus of such a size that we can incorporate it inside a reflector and hence secure a directional ray similar to light. The English Channel Radio Telephone uses such type of equipment operated on the extremely short wavelength of 20 cms. No doubt other uses are going to be found to take advantage of this property. Also, due to the virgin nature of the region around five meters and be-low, it has ben found practical to op-erate television transmitters without interference from other types of transmission. As a result, the larger broadcast companies already have experimental stations on the air with far more success than ever before.

As a starting point for those new in the game, the building of an experimental 5-10 meter receiver is recommended. Such a receiver will not only receive television signals but also the new two-way police radio telephone nets now in operation. Boston has installed such a system with other cities no doubt considering such a move.

The preferences shown by our readers in the way of questions will govern this column in its entirety. At present we invite all to send us their particular problems so that their progress may be quicker.

Station CFRC of the Queen's University in Kingston, Ontario, is a part of the electrical engineering department of that institution, and is principally experimental. For that reason a definite schedule is not maintained, and the station does very little broadcasting. It is silent from April to October. However, during the Fall session occasional lectures are given for the Canadian Radio Commission—the next to be presented November 15, 9 to 9:15 P. M., EST. After the New Year, CFRC will transmit regularly every Monday, 5 to 6 P. M., EST., throughout the months of January, February and part of March.

CFRC, transmitting on 1510 kcs. with less than 200 watts, on the above dates, will appreciate detailed reports of reception and verification may be had by enclosing ten cents.

#### VOICES OF THE NNRC

KVI, Tacoma, Wash., recently added to the long list of official Newark News Radio Club stations, devotes a fifteen minute period to the club's tips and news every Thursday evening from 11.45 to midnight, PST. Just previous to signing off every night, KVI is also announcing NNRC programs. The club is to be further publicized for several weeks through newspapers in and around Tacoma and by spot announcements over the station.

This service, especially for West Coast members and listeners, comes to us through the courtesy of H. J. McAllister, KVI's assistant remote engineer and incidentally, a member of the club. Mac, as he is familiarly known, will attempt to have these features duplicated by KPCB, Seattle, which will insure publicity for the NNRC through another major network station and a regional independent. Vice-President Fred W. Janssen, Ventura, Calif., represented the club in the negotiations.

It is expected that WOR's new 50,000 watt transmitter, now under construction at Carteret, N. J., will be ready for testing about the middle of November. The Newark News Radio Club has been advised by Chief Engineer Jack R. Pop-



Adele Ronson, young dramatic actress, has resumed her role as Lieutenant Wilma Deering in the "Buck Rogers in the 25th Century" program broadcast Monday through Thursday from 6 to 6:15 P. M., E.S.T., over the WABC-Columbia chain.

pele, that several of the tests will be dedicated to its members. It is planned to hold an aerial meeting of the club similar to the one broadcast by WOR last season. In the meantime, it will be appreciated if those NNRCers who have not as yet sent in the WOR questionnaire will do so at once.

WTRC, Elkhart, Ind., besides announcing NNRC tips regularly, is planning to broadcast special programs for the club this season. One will go on the air at 5 A. M., CST, January 19, Saturday, selected to overcome interference with WEXL. Lester Zellmer, WTRC's asistant engineer, is shortly to become a member of the club.

By arrangement with Clermont M. Zimmerman, Sunbury, Pa., WKOK, that city, is now an NNRC station. With studios and offices at 1150 North Front Street, and its transmitter building but a few yards from the junction of the north and west branches of the Susequehanna River, WKOK is ideally situated for DX broadcasting. The transmitter, of modern design, operates on 1210 kilocycles with 100 watts. Two ninety foot towers, 200 feet apart, support the single wire antenna in a southeast and northwest at midnight, EST, each Monday, Wednesday and Friday.

Up at CFCO, Chatham, Ontario, our good friend John Beardall, has for the past ten months been conducting "The Western Ontario Better Radio Club," a period devoted to radio chatter, the reading of fan letters and the discussion of subjects of interest to radio students. CFCO has resumed broadcasting NNRC tips and will present a number of DX specials this Fall and Winter.

Roland Trenchard, director of WHOM, Jersey City, advises that the Bureau of Foreign and Domestic Commerce of the Department of Commerce, has compiled and published a new list of short wave broadcasting stations of the world. The call book is obtainable from the Bureau's Washington office, or from its district offices for 25 cents.

The list has been compiled from information secured from the Berne Bureau, the British Broadcasting Corporation, the Federal Communications Commission, thirty-two commercial and 400 consular offices of the United States Government abroad, and other organizations which co-operate with the Electrical Equipment Division.

# MICRO CHATS

Jack Denny, celebrated orchestra director, considers his fan mail a pretty accurate barometer of current trends in music. Just at present, states Denny, who is featured with Harry Richman and John B. Kennedy over the NBC-WJZ network each Wednesday at 10.30 P.M., EST, his mail indicates that an unusually large number of boys and girls are learning to play musical instruments. They seek his advice on various matters—how to tune the instruments, how to obtain the music of a certain tune, how long before they can qualify to play with his band, etc. Denny thinks that radio is responsible for whetting the appetite of American youth for self-generated music. They hear music on the air as it should be played and with that incentive, aspire to do the same.

The Pickens Sisters' first complete short, "Good Luck and Best Wishes" is now being shown throughout the country after a successful premiere in New York City. The short was made by Educational Films. Patti Pickens, youngest of the sisters, plays the ingenue lead. This is the girls' first short, though they have appeared in several feature productions.

Kenneth Carpenter, NBC Hollywood announcer now heard each Sunday at 3.30 P.M., EST, over an NBC-WEAF network, was literally thrust into radio. Born in 1900 in Illinois, his father a minister, he graduated from college and became an advertising manager of a department store. During a visit to Los Angeles, he was persuaded by friends to take a voice test at KFI, and later to desert advertising and become an announcer. Carpenter is married, plays tennis and is a voracious reader. He is of medium height with light hair and complexion.

Don Novis says Frances Langford is the first girl he's met who has her football lingo technically correct. On pigskin lore Novis is an authority. He won grid honors out in California before he knew he had a golden tenor voice.

Lou Holtz's secret ambition was to play the traps. At a rehearsal on NBC recently, Lou bribed Vallee's drummer to let him play them. A few minutes later Rudy's sense of rhythm was violently disturbed and he proceeded to roundly scold the disillusioned comedian.

Tony Wons is now domiciled in Evanston, Ill. The radio colony there includes Clara, Lu 'n Em. Clara, (Louise Starkey) is annoyed by women who look as though they had too many facials. Lu, (Isobel Carothers) is very irritable in the morning until she has her coffee. Em, (Helen King) shudders at the mere thought of mathematics. It's a heritage from her school days when she nearly went daft every time she had to solve a problem in arithmetic.

A thought for today contributed by Joey Nash, tenor heard with Richard Himber's orchestra on NBC. People who live in glass houses shouldn't cast reflections.



Edna Odell, the Hoosier songbird, heard frequently over NBC networks, began her singing career as a soprano. An attack of laryngitis changed her voice to controlto and led her to her early radio successes in Fort Wayne, Ind. There is only one thing she doesn't like about radio—she can't go to baseball and football games because she gets so excited she "roots" her voice away.

Beetle, who haunts Phil Baker is really a sentimentalist, else why did he remark the other day when the Jester returned to the NBC air lanes: "I'm glad to see you back because the radio audience hasn't had its Phil of Baker."

Bits about NBC broadcasters: Lowell Thomas is now an adopted brave of the Mohawks. His Indian name, translated into English is "Hot Coal." Sigmund Romberg, composer and conductor, was in the intelligence service of the United States during the World War. Kenneth Raught, script writer for the Landt Trio and White, is the husband of Mildred Landt, sister of the trio.

Did you know that Queena Mario, Metropolitan prima donna frequently heard on NBC, is married to Wilfred Pelletier, the Met conductor who furnishes the musical background for a large motor car manufacturer's program... that Dixie Mason, vocalist with the National Barn Dance Company, is the wife of Fleming Allan, producer of that show ... that Arlene Sohr, singer with Ted Black's orchestra, is Mrs. Ted Black?

When Lawrence Tibbett chose to sing an improvised Russian song consisting of a mess of syllables run hurriedly together (Tibbett knows no Russian) on an NBC-WJZ network, he didn't know that the Soviet Choir, touring this country, was performing at the same moment in a neighboring NBC studio at Radio City.

The 300th performance of the Sinclair Greater Minstrels was celebrated October 22 at 9 P.M., EST, over the NBC-WJZ network. Gene Arnold, writer and interlocutor, and the only member of the cast who has remained with the show since its first performance in March, 1928, has announced that not one new joke was used during 300th presentation. Each week listeners select the best joke of the performance.

Instead of being heard only in Chicago, Uncle Ezra of National Barn Dance fame and his mythical, small-town radio station, EZRA, will go out over an NBC-WEAF each Wednesday and Friday at 7.30 P.M., EST, and each Sunday at 7.15 P.M., EST. Pat Barrett, who created the role of Uncle Ezra more than two years ago out of a wealth of stage, vaudeville and radio experience, will be supported by a large cast of character actors including Cliff Soubier, Carleton Guy and Nora Cunneen. He will also introduce singers and entertainers on the broadcast of poetry and song, philosophy and comedy.

"How can I kill a pet dog humanely? I made a hit in the Epworth League play at my church. Should I attempt a stage at my character attempt a stage as the career? Is Rudy Vallee an Italian? Is my poetry as good as Eddie Guest's? How shall I go about selling it? Did Shakespeare write Hey Nonny Nonny?" Questions such as these, sent in by radio listeners, explain those furrows which line the brow of Tony Wons who heads the cast of the House By The Side Of The Road program over an NBC-WEAF network Sunday afternoons besides conducting his Scrapbook program five mornings a week over an NBC-WJZ network. Wons has received thousands of these questions and much harder ones too, during his radio career. He lays no claim to omniscience but many of his listeners apparently ascribe that power to him. Many of the questions Tony points out cannot be answered by any mortal man but he sees to it that every writer receives a reply. He attempts to give the correct answers to questions of fact and offers the best advice he knows in problems to which there are no pat answers.

#### INTERESTING RADIO CALLS

CFCO—Coming from Chatham, Ontario

WAGF—Alabama, Georgia, Florida WGPC—World's Greatest Pecan Center

KWTO-Keep Watching the Ozarks

WRGA-Rome, Georgia

KVOD-Voice of Denver.

WBRB-Borough of Red Bank

WHBI-Hoyt Brothers, Inc.

WLNH—Laconia, New Hampshire WCKY—Covington, Kentucky

WDNC-Durham, North Carolina

WTJS-The Jackson Sun

WCFL—Chicago Federation Labor

KSAC-State Agricultural College KUSD-University South Dakota

KOAC-Oregan Agricultural College

KPAC-Port Arthur College

WWVA—Wheeling, West Virginia WCSC—Charleston, South Carolina

WTNJ-Trenton, New Jersey

KTFI—Twin Falls, Idaho

WEDC-Emil Denmark Cadillac

WMBI—Moody Bible Institute
WABC—Atlantic Broadcasting Cor-

poration WOSU-Ohio State University

WNYC-New York City WPG-World's Playground

# BROADCASTING STATIONS

HERE	RD VERIFIED			
540	Kilocycles CJRM	555.2 Meters Moose Jaw, Sask.	1000	Jas. Richardson & Sons, Ltd.
	W1 1	E4E 1 M-4		
220	Kilocycles	545.1 Meters	F00	THE CONTRACTOR OF THE
H	CFNB KFUO	Fredericton, N. B. St. Louis, Mo.	500	Jas. S. Neill & Sons, Ltd. Evangelical Lutheran Church,
H		Bismarck, N. D.	1000	Mayer Broadcasting Co.
	KOAC	Corvallis, Ore.	1000	
	KSD KTSA	St. Louis, Mo. San Antonio, Tex.	1000	Pulitzer Publishing Co. Southwest Broadcasting Co.
H	TISO	San Jose, Costa Rica	250	P. F. Saborio.
	☐ WDEV	Waterbury, Vt. Buffalo, N. Y.	500	Harry C. Whitehill.
	WGR WKRC	Buffalo, N. Y.	1000	Buffalo Broadcasting Corp.
H	WSVA	Cincinnati, Ohio Staunton, Va.	500	WKRC, Inc. Marion K. Gilliam.
560	Kilocycles	535.4 Meters		
	☐ KFDM	Beaumont, Texas	500	Sabine Broadcasting Co.
	KLZ KTAB	Denver, Colo. San Francisco, Cal.	1000	Reynolds Radio Co., Inc. Associated Broadcasters, Ltd.
H	KWTO	Springfield, Mo.	1000	KGBX, Inc.
Ö	TGW	Springfield, Mo. Guatemala City, Gua.	10000	KGBX, Inc. Radio Nacionale of Guatemala
	WFI	Philadelphia, Pa.	1000	WFI Broadcasting Co.
H	WIND WLIT	Gary, Ind. Philadelphia, Pa.	500	Johnson-Kennedy Broadcasting Corp. Lit Bros. Broadcasting System, Inc.
H	WNOX	Knoxville, Tenn.	1000	WNOX, Inc.
	WQAM	Miami, Fla.	1000	Miami Broadcasting Co., Inc.
	□ XEA0	Mexicali, Baja Cal.	250	Luis L. Castro.
570	Kilocycles	526.0 Meters		
	□ кско	Wichita Falls, Texas	250	Wichita Falls Broadcasting Co.
	KMTR	Hollywood, Cal.	1000	KMTR Radio Corp. Puget Sound Broadcasting Co.
H	WKBN	Tacoma, Wash. Youngstown, Ohio	500	WKBN Broadcasting Corp.
H	☐ WMCA	New York, N. Y.	500	Federal Broadcasting Corp.
	WNAX	Yankton, S. D.	1000	The House of Gurney, Inc.
H	Wosu wsyr	Syracuse, N. Y.	750 250	Ohio State University Central New York Broadcasting Corp.
H	WSYU	Columbus, Ohio Syracuse, N. Y. Syracuse, N. Y.	250	Syracuse University
	□ WWNC	Asheville, N. C.	1000	Citizen Broadcasting Co., Inc.
	□ 2YA	Wellington, N. Z.	20000	New Zealand Broadcasting Board.
580	Kilocycles	516.9 Meters		
580	CHRC	Quebec, Que.	100	CHRC, Ltd.
580	CHRC CKCL	Quebec, Que. Toronto, Ont.	100	Dominion Battery Co., Ltd.
580	CHRC	Quebec, Que.		Dominion Battery Co., Ltd. University of Alberta.
580	CHRC CKCL CKUA KMJ KSAC	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans.	100 500 500 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture.
580	CHRC CKCL CKUA KMJ KSAC WCHS	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va.	100 500 500 500 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture. Charleston Broadcasting Corp.
580	CHRC CKCL CKUA KMJ KSAC	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va.	100 500 500 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc.
580	CHRC CKCL CKUA KMJ KSAC WCHS WDBO	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans.	100 500 500 500 500 250	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture. Charleston Broadcasting Corp.
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000000000	CHRC CKCL CKUA KMJ KSAC WCHS WDBO WIBW WTAG	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg.	100 500 500 500 500 500 250 1000	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc.
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000000000	CHRC CKCL CKUA KMJ KSAC WCHS WDB0 WIBW WTAG Kilocycles KHQ LS10 WEEI	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich.	100 500 500 500 250 1000 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp, Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer.
000000000	CHRC CKCL CKUA KMJ KSAC WCHS WDBO WIBW WTAG Kilocycles KHQ LS10 WEEI WKZO	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass.	100 500 500 500 250 1000 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp., Orlando Broadcasting Co., Inc., Topeka Broadcasting Assn., Inc., Worcester Telegram Pub. Co.  Louis Wasmer, Inc., Casa America. Edison Electric Illuminating Co.
590	CHRC CKCL CKUA KMJ KSAC WCHS WDBO WIBW WTAG Kilocycles KHQ LS10 WEEI WKZO WOW XEPN	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.	100 500 500 500 250 1000 500 1000 3500 1000 1000	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture. Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World.
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590	CHRC CKCL CKUA KMJ KSAC WCHS WDBO WIBW WTAG  Kilocycles KHQ LS110 WEE1 WKZO WOW XEPN  Kilocycles	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Pledras Negras, Coah.  499.7 Meters Montreal, Que.	100 500 500 500 250 1000 500 1000 1000 1	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture. Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co.
590	CHRC CKCL CKUA KMJ KSAC WCHS WDB0 WTAG Kilocycles KHQ LS10 WEEI WKZO WOW XEPN Kilocycles	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.  499.7 Meters Montreal, Que. Chatham, Ont. Vancouver, B. C.	100 500 500 500 500 250 1000 500 1000 10	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture. Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co. John Beardall. G. C. Chandler.
590	CHRC CKCL CKUA KMJ KSAC WCHS WDBO WIBW WTAG  Kilocycles KHQ LS10 WEEL WKZO WOW XEPN Kilocycles	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.  499.7 Meters Montreal, Que. Chatham, Ont. Vancouver, B. C. San Diego, Cal.	100 500 500 500 250 1000 3500 1000 1000 1000 5000 500 1000 500 1000 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co. John Beardall. G. C. Chandler. Airían Radio Corp., Ltd.
590	CHRC CKCL CKUA KMJ KSAC WCHS WDB0 WTAG Kilocycles KHQ LS10 WEEI WKZO WOW XEPN Kilocycles CFCF CFCF CFCF CFCF CFCF CFCF CFCF CF	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.  499.7 Meters Montreal, Que. Chatham, Ont. Vancouver, B. C. San Dlego, Cal. Storrs, Conn.	100 500 500 500 250 1000 500 3500 1000 1000 5000 5000	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co. John Beardall. G. C. Chandler, Airfan Radio Corp., Ltd. Connecticut State College.
590	CHRC CKCL CKUA KMJ KSAC WCHS WDB0 WIBW WTAG  Kilocycles KHQ LS10 WEEI WKZO WOW XEPN Kilocycles CFCF CFCO CJOR KFSD WCAC WCAC	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.  499.7 Meters Montreal, Que. Chatham, Ont. Vancouver, B. C. San Dlego, Cal. Storrs, Conn. Baltimore, Md. Bridgeport, Conn.	100 500 500 500 250 1000 3500 1000 1000 1000 5000 500 500 500	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co. John Beardall. G. C. Chandler. Airfan Radio Corp., Ltd. Connecticut State College. Monumental Radio Co. Southern Connecticut Broadcasting Corp.
590	CHRC CKCL CKUA KMJ KSAC WCHS WDB0 WIBW WTAG Kilocycles KHQ LS10 WEEI WKZO WOW XEPN Kilocycles CFCF CFCF CFCO CFCO CJOR KFSD WCAC WCAC WCAC WMCAC	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.  499.7 Meters Montreal, Que. Chatham, Ont. Vancouver, B. C. San Diego, Cal. Storrs, Conn. Baltimore, Md. Bridgeport, Conn. Waterloo, Iowa	100 500 500 500 500 250 1000 3500 1000 3500 1000 5000 5000 50	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture, Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co. John Beardall. G. C. Chandler. Airían Radio Corp., Ltd. Connecticut State College. Monumental Radio Co. Southern Connecticut Broadcasting Corp. Waterloo Broadcasting Co.
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590 600	CHRC CKCL CKUA KMJ KSAC WCHS WDBW WTAG KIlocycles LS10 WEEI WKZO WOW XEPN KIlocycles CFCF CFCF CFCF CFCF CFCF CFCF CFCF CF	Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Cal. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.  508.2 Meters Spokane, Wash. Buenos Aires, Arg. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. Piedras Negras, Coah.  499.7 Meters Montreal, Que. Chatham, Ont. Vancouver, B. C. San Dlego, Cal. Storrs, Conn. Baltimore, Md. Bridgeport, Conn. Waterloo, Iowa Memphis, Tenn.  491.5 Meters Havana, Cuba St. Pierre, Miquelon Is. Montevideo, Uruguay San Francisco, Cal. Manila, P. I. Kansas City, Mo. Philadelphia, Pa.	100 500 500 500 250 1000 3500 1000 3500 1000 1000 5000 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 5	Dominion Battery Co., Ltd. University of Alberta. James McClatchy Co. State College of Agriculture. Charleston Broadcasting Corp. Orlando Broadcasting Co., Inc. Topeka Broadcasting Assn., Inc. Worcester Telegram Pub. Co.  Louis Wasmer, Inc. Casa America. Edison Electric Illuminating Co. John E. Fetzer. Woodmen of the World. Piedras Negras Broadcasting Co.  Canadian Marconi Co. John Beardall. G. C. Chandler. Airfan Radio Corp., Ltd. Connecticut State College. Monumental Radio Co. Southern Connecticut Broadcasting Corp. Waterloo Broadcasting Co. WREC, Inc.  Raoul Karman. St. Pierre Radio Club. Don Lee, Inc. Kansas City Star-Co.

620	Kilocycles	483.6 Meters		
020				a privile a
	KTAR KTAR	Portland, Ore. Phoenix, Ariz.	1000	Oregonian Publishing Co. KTAR Broadcasting Co.
H	WFLA	Clearwater, Fla.	1000	KTAR Broadcasting Co. Florida West Coast Broadcasting Co. Pennsylvania Radio Supply House
	☐ WHJB	Greensburg, Pa.	250	Pennsylvania Radio Supply House
	WLBZ WSUN	Bangor, Me.	500 1000	Maine Broadcasting Co., Inc. Florida West Coast Broadcasting Co.
H	WTMJ	St. Petersburg, Fla. Milwaukee, Wisc.	1000	The Journal Co.
	_			
630	Kilocycles	475.9 Meters		
	☐ CFCY	Charlottetown, P. E.		Island Radio Broadcasting Co.
	CJGX	Verkton, Sask.	500	Dawson, Richardson Publications, Ltd.
H	CKOV CMBY	Kelowna, B. C. Havana, Cuba	100 250	Okanagan Broadcasters, Ltd. Callajas-Estafani
	KFRU	Columbia, Mo.	500	KFRU, Inc.
	☐ KGFX	Pierre, S. D.	200	Dana McNeil.
H	☐ LS3 WGBF	Buenos Aires, Arg. Evansville, Ind.	4500 500	"Mayo". Evansville On The Air, Inc.
H	WMAL	Washington, D. C.	250	National Broadcasting Co., Inc.
	□ wos	Jefferson City, Mo.	500	State Highway Control.
	□ WPRO	Providence, R. I.	250	Cherry & Webb Broadcasting Co.
П	□ 5CK	Crystal Brook, Aus.	7500	National Broadcasting Service.
640	Kilocycles	468.2 Meters		
	□ KFI	Los Angeles, Cal.	50000	Earle C. Anthony, Inc.
Ö	☐ WAIU	Columbus, Ohio	500	Associated Broadcasting Corp.
	WOI		5000	Iowa State College.
П	□ XEOX	Saltillo, Coah.	250	
650	Kilocycles	461.3 Meters		
П	CX5	Montevideo, Uruguay	5000	Ministerio Instruccion Publica.
	□ WSM	Nashville, Tenn.	50000	National Life & Accident Insurance Co.
	□ 1YA	Auckland, N. Z.	500	N. Z. Broadcasting Board.
660	Kilocycles	454.3 Meters		
000	□ WAAW	Omaha, Neb.	500	Omaha Grain Exchange.
H	WEAF	New York, N. Y.	50000	
Ō	☐ XEAL	Mexico City, D. F.	1000	Pan American Radio Co.
670	Vilalas	447 F M.		
670	Kilocycles	447.5 Meters	2000	
H		Buenos Aires, Arg. Chicago, Ill.	50000	Juan G. Gonzales Speroni. National Broadcasting Co., Inc.
680	Kilocycles	440.9 Meters		
	☐ CMAF	Havana, Cuba	1000	International Broadcasting Co.
H	CMCQ HJN	Havana, Cuba Bogota, Colombia	1000 500	Andres Martinez. Ministry of Posts.
H	KFEQ	St. Joseph, Mo.	2500	Seroggin & Co. Bank,
	□ КРО	San Francisco, Cal. San Salvador, E. S.	50000	National Broadcasting Co., Inc.
	RDN VOWR	San Salvador, E. S.	500 500	Republic of El Salvador. Wesley United Church.
H	WPTF	St. Johns' Nfld. Raleigh, N. C.	1000	Durham Life Insurance Co.
	□ VAS	Glace Bay, N. S.	2000	Canadian Marconi Co., Ltd.
600	Kilosyslas	434 5 Motors		
690	Kilocycles	434.5 Meters	10000	Pagers Majestic Co. T+4
H		Toronto, Ont. Calgary, Alta.	10000	Rogers Majestic Co., Ltd. Albertan Publishing Co., Ltd.
d	□ NAA	Arlington, Va.	1000	United States Navy.
	□ XET	Monterrey, N. L.	500	Cadena Radiodifusora Mexicana, S. A.
700	Kilocycles	428.3 Meters		
	WLW.	Cincinnati, Ohio	500000	Crosley Radio Corp.
and the same of			20,000,000	
710	Kilocycles	422.3 Meters		
	☐ KMPC	Beverly Hills, Cal.	500	Beverly Hills Broadcasting Corp.
H	☐ LSI1 KPCB	Buenos Aires, Arg.	5000 250	Municipalidad de Buenos Aires.
H	WOR	Seattle, Wash. Newark, N. J.	5000	Queen City Broadcasting Co. Bamberger Broadcasting Service, Inc.
	☐ XEN	Mexico City, D. F.	1000	Cerveceria Modelo, S. A.
720	Viles	1161 14-1-1		
720	Kilocycles	416.4 Meters	4 4 4 4	
	☐ KZEG ☐ WGN	Manila, P. I.	1000 50000	Erlanger & Galinger, Inc.
H	3YA	Chicago, Ill. Christchurch, N. Z.	2500	WGN, Inc. N. Z. Broadcasting Board.
720				
730	Kilocycles	410.7 Meters		
	CFPL CJCA	London, Ont.	100	Free Press & Printing Co.
H	CKAC	Edmonton, Alta. Montreal, Que.	500 5000	Edmonton Journal, Ltd. La Presse Publishing Co., Ltd.
	CMK	Havana, Cuba	3150	National Broadcasting Co. of Cuba
	□ 5CL	Adelaide, Australia	5000	National Broadcasting Service,

740	Kilocycles	405.2 Meters		
	□ KMMJ	Clay Center, Neb.		M. M. Johnson Co.
	KTRB	Modesto, Cal.	250	T. R. McTammany & W. H. Bates, Jr.
	WHEB	Portsmouth, N. H. Atlanta, Ga.	50000	Granite State Broadcasting Corp. Atlanta Journal.
	□ WSB	Atlanta, Ga.	50000	Atlanta Journal.
750	Kilocycles	399.8 Meters		
	CMCW	Havana, Cuba	150	Vilarino y Cervantes
H	KGU	Honolulu, Hawaii	2500	Advertiser Publishing Co.
	WJR	Detroit, Mich.	10000	WJR, Inc.
	□ XEAM	Nuevo Laredo, Tams.	50	Edificio Banco Longoria
760	Kilocycles	394.5 Meters		
100			050	American Bodie Welenhous Co
H	□ KXA □ WBAL	Seattle, Wash.	10000	American Radio Telephone Co. WBAL Broadcasting Co.
H	WEW	Baltimore, Md. St. Louis, Mo.	1000	St. Louis University
H	WJZ	New York, N. Y.	50000	National Broadcasting Co., Inc.
	4QG	Brisbane, Australia	5000	National Broadcasting Service.
	☐ XEBC	Agua Caliente, B. C.	5000	Agua Caliente Broadcasting Station.
770	Kilocycles	389.4 Meters		
110	KFAB		5000	KFAB Broadcasting Co.
H		Lincoln, Neb. Chicago, Ill.	25000	WBBM Broadcasting Corp.
ш	State of the second	Cincago, Inc	20000	Transfer Distriction of the Property of the Pr
780	Kilocycles	384.4 Meters		
П	CHWK	Chilliwack, B. C.	100	Chilliwack Broadcasting Co., Ltd.
Ī	CMBS	Havana, Cuba	150	Enrique Artalajo
	☐ KELW	Burbank, Cal.	500	Evening Herald Publishing Co.
	KFDY	Brookings, S. D.	1000	South Dakota State College. Anchorage Radio Club, Inc.
H	KFQD KGHL	Anchorage, Alaska Billings, Mont.	250 1000	N. W. Auto Supply Co.
H	KTM	Los Angeles, Cal.	500	Evening Herald Publishing Co.
H	WEAN	Providence, R. I.	500	Shepard Broadcasting Service, Inc.
- I	- WMC	Memphis Tenn.	1000	WMC, Inc.
	WTAR	Norfolk, Va. Mexico, D. F.	500	WTAR Radio Corp.
			10000	Angel M. Diez.
790	Kilocycles	379.5 Meters		
	CMJK	Camaguey, Cuba	150	Comp. Cubana Nacl. de Radio.
	☐ KGO	San Francisco, Cal.	7500	National Broadcasting Co., Inc.
	LR10	Buenos Aires, Arg.	8000	"Cultura."
	□ WGY	Schenectady, N. Y.	50000	National Broadcasting Co., Inc.
800	Kilocycles	374.8 Meters		
П	TIGP TIGP	San Jose, Costa Rica	75	Gonzalo Pinto.
Ī	□ WBAP	Fort Worth, Texas	50000	Carter Publications, Inc.
	WFAA	Dallas, Texas	50000	Morning News and Journal.
H	□ WTBO	Cumberland, Md. Melbourne, Australia	250 4500	Associated Broadcast Corp. National Broadcasting Service.
010			4500	Wational Broadcasting Bervice.
810	Kilocycles	370.2 Meters		
	□ WCCO	Minneapolis, Minn.	50000	N. W. Broadcasting, Inc.
	WNYC XFC	New York, N. Y.	350	City of New York,
000	Based .	Aguacalientes, Ags.	990	
820	Kilocycles	365.6 Meters		
	□ WHAS	Louisville, Ky.	50000	Courier Journal.
	XEP XETW	Mexico, D. F. Mexico, D. F.	500	Cia Difusora de Mexico, S. A.
П			500	Rafael M. Pena.
830	Kilocycles	361.2 Meters		
	□ CMC	Havana, Cuba.	500	Radio Corp. of Cuba.
	KOA KOA	Denver, Colo.	50000	General Electric Co.
H	WEEU	Buenos Aires, Arg. Reading, Pa.	1000	A. B. Dougall. Berks Broadcasting Co.
H	WHDH	Boston, Mass.	1000	Matheson Radio Co.
	WRUF	Gainesville, Fla.	5000	State University.
840	Kilocycles	356.9 Meters		
070	CMQ		E000	Jose Fernandez.
H	CFQC	Havana, Cuba Saskatoon, Sask.	1000	Electric Shop, Ltd.
H	CRCT	St. Johns', Nfd.	5000	Canadian Radio Broadcasting Com.
	- VOGY	Toronto, Ont.	400	Newfoundland Broadcasting Co.
850	Kilocycles	352.7 Meters		
050		Glendale, Cal.	250	Connon System T+4
H	KIEV WWL	New Orleans, La.	250 10000	Cannon System, Ltd. Loyola University.
H	WWPA	Clarion, Pa.	250	Clarion Broadcasting Co.
	☐ XEXX	Mexico, D. F.	500	
	□ 2BL	Sydney, Australia	5000	National Broadcasting Service.
860	Kilocycles	348.6 Meters		
П	CMCX	Havana, Cuba	150	New Station.
T	WABC	New York, N. Y.	50000	Atlantic Broadcasting Corp.
	☐ WBOQ	New York, N. Y. New York, N. Y.	50000	Atlantic Broadcasting Co.
	WHB	Kansas City, Mo.	500	WHB Broadcasting Co.
	□ ХЕМО	Tijuana, B. C.	2500	Radio Station XEMO.

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870	Kilocycles	344.6 Meters	F0000	Good to be Decided to Go
R	WENR WIS	Chicago, III.		Great Lakes Broadcasting Co. Agricultural Broadcasting Co.
000				
880	Kilocycles	340.7 Meters	100	Paniam Bublishing Co. Itd
H		Kamloops, B. C. Ott. wa, Ont.	1000	Review Publishing Co., Ltd. Canadian Radio Com.
H	☐ KFKA	Greeley, Colo.	500	Mid-Western Radio Corp.
	KLX		1000 500	Tribune Publishing Co. Pillar of Fire.
H	KPOF KSEI		250	Radio Service Corp.
i i	□ wcoc	Meridian, Miss.	500	Mississippi Broadcasting Co., Inc.
	WGBI WPHR	Scranton, Pa. Petersburg, Va.	500 500	Scranton Broadcasters, Inc. WLBG, Inc.
H	WQAN		250	Scranton Times.
	WSUI	Iowa City, Iowa	500	State University of Iowa.
	□ YV2RC		100	
890	Kilocycles	336.9 Meters		
prompt of the same	□ CJIC		100	J. G. Hyland & J. C. Whitby.
H	KARK KENE	Shenandoah, Iowa	250 500	Arkansas Radio & Equipment Co. Henry Field Co.
30000000	KUSD	Vermillion, S. D.	500	University of South Dakota.
	WBAA	West Lafayette, Ind.	1000 500	Purdue University. Georgia School of Technology.
H	WGST WILL	Atlanta, Ga. Urbana, Ill.	250	University of Illinois.
d	WJAR	Providence, R. I.	500	Outlet Co.
	WMMN		50000	A. M. Rowe, Inc. Cadena Radiodifusora Mexicana.
			50000	Cadena Itadiodii daora mexicana.
900	Kilocycles	333.1 Meters		
	CMX KGA		1000 5000	Casa "Lavin." N. W. Broadcasting Co., Inc.
H	KGBU		500	Alaska Radio & Service Corp.
	KHJ	Los Angeles, Cal.		Don Lee Broadcasting System,
R	WBEN WJAX		1000	Buffalo Evening News, City of Jacksonville,
H	WKY		1000	
	☐ WLBL	Stevens Point, Wisc.		Wisconsin Dept. of Agriculture & Markets.
П	П	Hamburg, Germany	100000	Nordischer Rundfunk.
910	Kilocycles	329.6 Meters		
	CJAT	Trail, B. C.	250	Kootenay Broadcasting Co., Ltd.
H		Cienfuegos, Cuba Montreal, Que.	100 5000	Canadian Radio Com.
6	LR2	Buenos Aires, Arg.	8500	Alfredo Schroeder.
H		Rockhampton, Aus. San Jose, Costa Rica	5000 75	National Broadcasting Service. Government of Costa Rica.
	based (			dovernment of costa Area.
920	Kilocycles		Waste.	
	КОМО КОМО	Port-au-Prince, Halti Seattle, Wash.	1000	Haltian Government. Fishers Blend Station.
H	KPRO		1000	Houston Printing Co.
	KVOD	Denver, Colo.		Colorado Radio Corp.
H	WAAF WRSO	Chicago, III. Boston, Mass.	500	Drovers Journal. Broadcasting Service Organization.
	WPEN	Philadelphia, Pa.	100	Wm. Penn Broadcasting Co.
	WRAX WSPA		250 1000	WRAX Broadcasting Co. Virgil V. Evans.
	WWJ	Detroit, Mich.	1000	Evening News Association.
		Mexicali, B. C. Leon, Guan.	200	
			500	
930	Kilocycles	322.4 Meters		
	CFAC		100 100	Calgary Herald.
H	CFLC	Prescott, Ont.	100	
	CHNS	Prescott, Ont. Halifax, N. S.	500	
H	CKPC CKPR		100	Telephone City Broadcast, Ltd. Dougall Motor Co., Ltd.
H	☐ CMJF	Camaguey, Cuba	200	John L. Stowers.
	CMW KGBZ		1400	
H	KMA	Shenandoah, Iowa	1000	Earl E. May Seed Co.
	KROW	Oakland, Cal.	500	Educational Broadcasting Corp.
	WBRC WDBJ		1000 1000	Birmingham Broadcasting Co., Inc.
040			2000	
940	Kilocycles	319.0 Meters		
	CMKM KOIN		1000	
H	T VOAS	St. John's, Nfd.	100	Ayre & Sons, Ltd.
	WAAT	Jersey City, N. J.	500 1000	Bremer Broadcasting Corp.
H	WAVE WEST	Portland, Me.	1000	
Ö	WDAY	Fargo, N. D.	1000	

2000 50

5000

1000

50000

Figuera, Canepa y Cia. Jose Antonio Lefran.

Western Broadcast Co., Inc.

Canadian Radio Commission, Farmers & Bankers Life Insurance Co.

CX26 Montevideo, Uruguay CMJG Camaguey, Cuba CRCK Quebec, P. of Q. KFBI Abilene, Kans.

Hollywood, Cal.

CRCK

KNX

1060 Kilocycles 282.8 Meters		
CMCB Havana, Cuba	10000	Metropolitan Building. Chamber of Commerce.
KTHS Hot Springs, Ark.   WBAL Baltimore, Md.		WBAL Broadcasting Co.
WJAG Norfolk, Neb.	1000	Norfolk Daily News.
XEA Guadalajara, Jal.	125	Alberto Palos Souza.
1070 Kilocycles 280.2 Meters		
KJBS San Francisco, Cal.	100	Julius Brunton & Sons Co.
WCAZ Carthage, Ill.		Superior Broadcasting Service.
☐ WDZ Tuscola, Ill.	100	
□ □ WTAM Cleveland, Ohio	50000	National Broadcasting Co.
1080 Kilocycles 277.6 Meters		
□ □ WBT Charlotte, N. C.	50000	Station WBT, Inc.
WCBD Waukegan, III.	5000	Wilbur Glenn Voliva.
WMBI Chicago, Ill. XEMA Tampico, Tams.	5000	Moody Bible Institute, Manuel M. Pier
	0.0	Manuel M. 1101
1090 Kilocycles 275.1 Meters		
CMGI Colon, Cuba	2000	
CX28 Montevideo, Uruguay KMOX St. Louis, Mo.	50000	Miquel Biere, The Voice of St. Louis, Inc.
WESG Elmira, N. Y.	1000	
1100 Kilocycles 272.6 Meters		
CMCY Hayana, Cuba	500	M. D. Autran,
	50	Abelardo Menocal.
CMHA Saguala Grande, Cuba CRCV Vancouver, B. C. KGDM Stockton, Cal. KWKH Shreveport, La. TIRCA San Jose, Costa Rica WLWL New Yor', N. Y. WPG Atlantic City, N. J.	1000	
KGDM Stockton, Cal. KWKH Shreveport, La.	10000	
TIRCA San Jose, Costa Rica	500	
WLWL New Yor', N. Y.		Society of St. Paul.
WPG Atlantic City, N. J. XEFG Mexico City, D. F.	250	Columbia Broadcasting System. Ricardo Gonzales Montero.
1110 Kilocycles 270.1 Meters		
KSOO Sioux Falls, S. D. LS5 Buenos Aires, Arg.	5000	Sioux Falls Broadcasting Association. Rafael Diaz.
WRVA Richmond, Va.		Larus & Bro. Co., Inc.
XENT Nuevo Laredo, Tamps.	70000	Cia Industrial Universal, S. A.
1120 Kilocycles 267.7 Meters		
1120 Kilocycles 267.7 Meters	100	La Patrie Publishing Co., Ltd.
CHLP Montreal, Que.	100	N. B. Broadcasting Corp., Ltd.
CHLP Montreal, Que.	100 500	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co.
CHLP Montreal, Que.	100	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda.
CHLP Montreal, Que.	100 500 150 60 100	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co.
CHLP Montreal, Que.	100 500 150 60 100 500	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn.
CHLP Montreal, Que.	100 500 150 60 100 500 500	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRKC Seattle, Wash. WDEL Wilmington, Del.	100 500 150 60 100 500 500 100 250	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc.	100 500 150 60 100 500 500 100 250 250	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRKD WDEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas	100 500 150 60 100 500 500 100 250	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRKD WIEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles 265.3 Meters	100 500 150 60 100 500 500 100 250 250 500	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRKD Los Angeles, Cal. WDEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah	100 500 150 60 100 500 500 100 250 250 500	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRKD Los Angeles, Cal. WIBM Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y.	100 500 150 60 100 500 100 250 250 250 500 5000 20000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRSC Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles  KSL Salt Lake City, Utah Chicago, Ill.	100 500 150 60 100 500 100 250 250 250 500	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden	100 500 150 60 100 500 100 250 250 250 500 5000 20000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp.
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CHLP Montreal, Que. CHSJ St. John, N. B. Hamilton, Ont. Havana, Cuba CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. KRKD WIBM Wilmington, Del. WISM Milwaukee, Wisc. College Station, Texas  1130 Kilocycles 265.3 Meters KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters KYOO Tulsa, Okla.	100 500 150 60 100 500 500 250 250 250 20000 1000 100	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp.
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CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. WDEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah WJJD Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters  KYOO Tulsa, Okla. WAPI Birmingham, Ala. IITO Turin, Italy  1150 Kilocycles 260.7 Meters	100 500 150 60 100 500 500 250 250 250 2000 1000 1000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa, C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. Havana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba Confugos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wise. WTAW College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah Chieago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters  KYOO Tulsa, Okla. Birmingham, Ala. Turin, Italy  1150 Kilocycles 260.7 Meters  CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 WHAM Rochester, N. Y. XEH Montercey, N. L. Mexico, D. F.	100 500 150 60 100 250 250 250 250 20000 1000 1000 25000 20000 1000 25000 20000 1000 25000 25000 25000 25000 25000 25000 25000 25000 25000 25000 25000 25000 25000 250	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa, C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. Hawana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba Confugos, Calba Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. WISN WImington, Del. WISN Milwaukee, Wise. College Station, Texas  1130 Kilocycles  KSL Salt Lake City, Utah Chieago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles  KVOO Tulsa, Okla. WAPI Birmingham, Ala. HTO Turin, Italy  1150 Kilocycles  CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 Buenos Aires, Arg. WHAM Rochester, N. Y. XEH Monterrey, N. L. XEWZ Mexico, D. F.	100 500 150 60 100 500 500 100 250 250 250 00 1000 20000 1000 20000 7000 2250 5000 50000 50000 50000 50000 50000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric, & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa. C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.
CHLP Montreal, Que. CHSJ St. John, N. B. CKOC Hamilton, Ont. Havana, Cuba CMCG Havana, Cuba CMCG Havana, Cuba CMCG Havana, Cuba Spokane, Wash. KFSG Los Angeles, Cal. KRSC Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. WTAW College Station, Texas  1130 Kilocycles  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles  CMSG Tulsa, Okla. Havana, Cuba CMJH Chicago de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Rochester, N. Y. XEH Monterrey, N. L. XEWZ Mexico, D. F.  1160 Kilocycles  258.5 Meters WOWO Fort Wayne, Ind.	100 500 150 60 1000 500 500 1000 250 250 250 000 10000 10000 10000 20000 7000 2225 50 50000 2250 1000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa, C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.  Main Auto Supply Co.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. Havana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba Cienfuegos, Cuba KFIGO Spokane, Wash. KFSG Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters  KYOO Tulsa, Okla. WAPI Birmingham, Ala. IITO Turin, Italy  1150 Kilocycles 260.7 Meters  CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Rochester, N. Y. Monterrey, N. L. XEWZ Mexico, D. F.  1160 Kilocycles 258.5 Meters  WOWO Fort Wayne, Ind. WWVA Wheeling, W. Va.	100 500 150 60 100 500 500 100 250 250 250 00 1000 20000 1000 20000 7000 2250 5000 50000 50000 50000 50000 50000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa. C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.  Main Auto Supply Co. W. Va. Broadcasting Corp.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. CMCG Havana, Cuba CMHJ Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters  KYOO Tulsa, Okla. WAPI Birmingham, Ala. IITO Turin, Italy  1150 Kilocycles 260.7 Meters  CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Rochester, N. Y. XEM Mexico, D. F.  1160 Kilocycles 258.5 Meters  WOWO Fort Wayne, Ind. WWVA XED Guadalajara, Jal.	100 500 150 60 100 500 500 250 250 20000 1000 20000 1000 20000 1000 25000 5000 5000 20000 1000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa, C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.  Main Auto Supply Co.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. Havana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters  KYOO Tulsa, Okla. WAPI Birmingham, Ala. IITO Turin, Italy  1150 Kilocycles 260.7 Meters  CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Rochester, N. Y. Monterrey, N. L. XEWZ Mexico, D. F.  1160 Kilocycles 258.5 Meters  WOWO WWVA XED Guadalajara, Jal.  1170 Kilocycles 256.3 Meters	1000 500 150 60 1000 2500 2500 2500 20000 10000 20000 10000 25000 5000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa. C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.  Main Auto Supply Co. W. Va. Broadcasting Corp. Radiofonographica de Guadalajaro, S. A.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. Hawana, Cuba CMCG Havana, Cuba CMCG Havana, Cuba CMCG Havana, Cuba Confugos, Cuba Spokane, Wash. KFSG Los Angeles, Cal. KRKD Los Angeles, Cal. Wilson Milwaukee, Wisc. College Station, Texas  1130 Kilocycles KSL Salt Lake City, Utah Chieago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters KVOO WAPI Birmingham, Ala. HTO Turin, Italy  1150 Kilocycles 260.7 Meters CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Ciego de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Rochester, N. Y. XEH Monterrey, N. L. XEWZ Mexico, D. F.  1160 Kilocycles 258.5 Meters WOWO Fort Wayne, Ind. WWVA Wheeling, W. Va. Guadalajara, Jal.  1170 Kilocycles 256.3 Meters	100 500 150 60 100 500 500 250 250 20000 1000 20000 1000 20000 1000 25000 5000 5000 20000 1000	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa. C. R. Sherrer y Cia. Stromberg-Carlson Tel. Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.  Main Auto Supply Co. W. Va. Broadcasting Corp.
CHLP CHSJ St. John, N. B. CKOC Hamilton, Ont. Havana, Cuba CMGG Havana, Cuba CMGG Havana, Cuba Cienfuegos, Cuba KFIO Spokane, Wash. KFSG Los Angeles, Cal. KRSC Seattle, Wash. WDEL Wilmington, Del. WISN Milwaukee, Wisc. College Station, Texas  1130 Kilocycles 265.3 Meters  KSL Salt Lake City, Utah Chicago, Ill. WOV New York, N. Y. SBH Horby, Sweden  1140 Kilocycles 263.0 Meters  KYOO Tulsa, Okla. WAPI Birmingham, Ala. IITO Turin, Italy  1150 Kilocycles 260.7 Meters  CMBG Havana, Cuba CMJH Ciego de Avila, Cuba LR8 Buenos Alres, Arg. WHAM Rochester, N. Y. Monterrey, N. L. XEWZ Mexico, D. F.  1160 Kilocycles 258.5 Meters  WOWO WWVA XED Guadalajara, Jal.  1170 Kilocycles 256.3 Meters	100 500 150 60 100 500 500 100 250 250 250 100 1000 1000 1000 5000 1	N. B. Broadcasting Corp., Ltd. Wentworth Radio Broadcasting Co. E. Pareda. Victorino Lopez Hontanon. Spokane Broadcasting Co. Echo Park Evang. Assn. Radio Broadcasters, Inc. Radio Sales Corp. WDEL, Inc. American Radio News Corp. Agric. & Mech. College.  Radio Service Corp. of Utah. WJJD, Inc. International Broadcasting Corp. Royal Board of Telegraphs.  Southwestern Sales Corp. WAPI Broadcasting Corp. E. I. A. R.  John L. Stowers. Luis Marauri Mendosa, C. R. Sherrer y Cia. Stromberg-Carlson Tel, Mfg. Co. Tarnava y Cia. Medellin e Insurgentes.  Main Auto Supply Co. W. Va. Broadcasting Corp. Radiofonographica de Guadalajaro, S. A.  Manuel Fernandez.

1180	) Ki	locycles	254.1 Meters		
			Portland, Ore.	5000	Western Broadcasting Co.
H	H	WDGY	Albuquerque, N. M. Minneapolis, Minn.	10000	Albuquerque Journal. Dr. Geo. W. Young.
		WINS	New York, N. Y.	1000	Am. Radio News Corp.
H	H	WMAZ XEFA	Macon, Ga. Mexico, D. F.	1000 500	Southeastern Broadcasting Co. Eduardo Limon Segui.
1190	0 Ki	locycles	252.0 Meters		
			Buenos Aires, Arg.	50000	Radio Prieto.
	H	WATR	Waterbury, Conn. San Antonio, Texas	50000	The WATR Co., Inc. Southern Industries, Inc.
H	d	WSAZ	Huntington, W. Va.	1000	WSAZ, Inc.
H	H	VE9EK	Montmagny, Que. Frankfurt-am-Main, Ger.	17000	J. A. Marquis.
1200	O V:				
1200	UKI	locycles	249.9 Meters Moose Jaw, Sask.	100	Moose Jaw Radio Assn.
H	H	CKTB	St. Catharines, Ont.	100	E. T. Sandell.
		KADA	Havena, Cuba	500	Rafael Rodriquez
H	H	KBTM	Ada, Okla. Jonesboro, Ark.	100	C. C. Morris. J. P. Beard.
		KFJB	Marshalltown, Iowa	100	Marshall Electric Co.
H	H	KFXD KFXJ	Nampa, Idaho Grand Junction, Colo.	100	Frank E. Hurt. Western Slope Broadcasting Co.
		KGDE	Fergus Falls, Minn.	100	C. L. Jaren.
H	H	KGEK	Sterling, Colo. Los Angeles, Cal.	100	Elmer G. Beehler. Ben S. McGlashan.
Ö	İ	KGHI	Little Rock, Ark.	100	Lloyd Judd Co.
R	H	KMLB	Missoula, Mont. Monroe, La.	100	Mosby's Inc. Liner's Broadcasting Station, Inc.
H	Ö	KOOS	Marshfield, Ore.	100	H. H. Hanseth
		KSUN	Lowell, Ariz. Bellingham, Wash.	100	Copper Electric Co., Inc. KVOS, Inc.
5	6	KWG	Stockton, Cal.	100	McClatchy Newspapers, Inc.
	H	WABI	Bangor, Me. Ponca City, Okla.	100	1st Universalist Society. C. L. Carrell.
H	H	WBHS	Huntsville, Ala.	100	Radio Station WBHS, Inc.
		WBNO	New Orleans, La. Rapid City, S. D.	100	Samuel D. Reeks.
H	H	WCAT	Burlington, Vt.	100	State School of Mines. Burlington Daily News, Inc.
		WCLO	Burlington, Vt. Janesville, Wisc.	100	Gazette Printing Co., Inc.
H	H	WFAM	South Bend, Ind. Cincinnati, Ohio	100	South Bend Tribune. WFBE, Inc.
	D.	WHBC	Canton, Ohio	100	Edw. P. Graham.
H	H	WHBY	Green Bay, Wisc. Utica, N. Y.	100	WHBY, Inc.
		WIL	St. Louis, Mo.	100	Missouri Broadcasting Corp.
H	H	WJBC	Bloomington, Ill. Decatur, Ill.	100	Commodore Broadcasting, Inc.
		WJBW	New Orleans, La.	100	C. C. Carlson.
H	H	WKBO	Harrisburg, Pa. Lancaster, Pa.	100	Keystone Broadcasting Corp. Lancaster Broadcasting Service.
		WLVA	Lynchburg, Va.	100	Lynchburg Broadcasting Corp.
H	H	WMPC	Lapeer, Mich. Washington, Pa.	100	1st Methodist Protestant Church. J. B. Spriggs.
	Ö	WRBL	Columbus, Ga.	100	WRBL Radio Station, Inc.
H	H	WWAE YV3RC	Hammond, Ind. Caracas, Venez.	1000	Hammond Calumet Broadcasting Corp. Degwitz & Siblesz
		10AK	Stratford, Ont.	15	M. I. Higgins.
H	H	10BP 10BQ	Wingham, Ont. Brantford, Ont.	25 15	W. T. Cruickshank,
		10BU	Canora, Sask.	.50	Canora Radio Assoc.
1210	0 Ki	locycles	247.8 Meters		
			New Carlisle, Que.		Gaspesian Broadcasting Co. Prince Albert Radio Club.
H	H	CKBI	Prince Albert, Sask. Hull, Que.	100	Radio Broadcasting of Hull, Ltd.
		CKMC	Cobalt, Ont.	50	R. L. MacAdam.
H	H	KASA	Ciego de Avila Elk City, Okla.	150	Gilberto Gessa Lopez. E. M. Woody.
ij		KDLR	Devil's Lake N. D.	100	KDLR, Inc.
H	H	KFJI	Klamath Falls, Ore. Lincoln, Neb.	100	KFJI Broadcasters, Inc. Howard Shuman.
		KFPW	Fort Smith, Ark.	100	Southwestern Hotel Co.
H	H	KFVS	Cape Girardeau, Mo. San Bernardino, Cal.	100	Oscar C. Hirsch. Lee Bros. Broadcasting Co.
H	D	KGY	Olympia, Wash.	100	KGY, Inc.
B	B	KIEM	Eureka, Cal. Pasadena, Cal.	100	H. H. Hanseth. Pasadena Presbyt. Church.
H	H	KWEA	Shreveport, La.	100	International Broadcasting Corp.
B	B	KWFV	Hilo, T. H. Watertown, S. D.	100	Hilo Broadcasting Co., Ltd. Greater Kampeska Radio Corp.
	H	KWTN	Hibbing, Minn.	100	Head of Lakes Broadcasting Co.
	(22-0)				

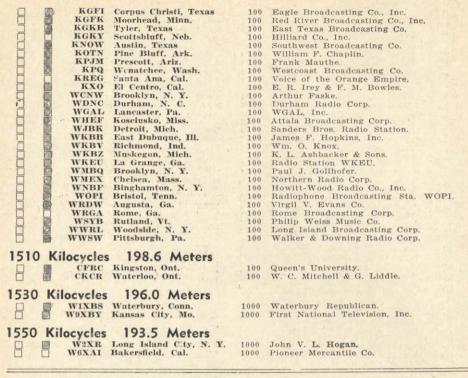
HEAL	RD VE	RIFIED			
	П	WALR	Zanesville, Ohio	100	WALR Broadcasting Corp.
H	H	WBAX	Wilkes-Barre, Pa.	100	John H. Stenger, Jr.
Ī		WBBL	Richmond, Va.	100	Grace Covenant Presby, Church.
		WBRB	Red Bank, N. J.	100	Monmouth Broadcasting Co., Inc.
	H	WCBS	Springfield, Ill.	100	WCBS, Inc. WCOL, Inc.
H	H	WCRW	Columbus, Ohio Chicago, Ill.	100	Clinton R. White.
H	H	WEBQ	Harrisburg, Ill.	100	Harrisburg Broadcasting Co.
H	D	WEDC	Chicago, Ill.	100	Emil Denmark.
		WFAS	White Plains, N. Y.	100	Westchester Broadcasting Corp.
		WGBB	Freeport, N. Y.	100	H. H. Carman. Great Southern Land Co.
	H	WGCM	Gulfport, Miss. Chester, N. Y.	100	Peter Goelet.
H	H	WHBF	Rock Island, Ill.	100	Rock Island Broadcasting Co.
H	H	WHBU	Anderson, Ind.	100	Anderson Broadcasting Corp.
H	Ħ	WIBU	Poynette, Wisc. Gadsden, Ala.	100	Wm. C. Forrest.
		WJBY	Gadsden, Ala.	100	Gadsden Broadcasting Co.
		WJEJ	Hagerstown, Md.	100	Hagerstown Broadcasting Co., Inc. Capitol City Broadcasting Co.
H	H	WJW	Lansing, Mich. Akron, Ohio	100	WJW, Inc.
H	H	WKFI	Greenwood, Miss.	100	J. Pat Scully.
H	H	WKOK	Sunbury, Pa.	100	Sunbury Broadcasting Co.
Ti.		WMBG	Richmond, Va.	100	Havens & Martin, Inc.
		WOCL	Jamestown, N. Y.	100	A. E. Newton.
		WOMT	Manitowoc, Wisc.	100	Francis M. Kadow. Stevens Luke.
H	H	WQDX	Thomasville, Ga. Chicago, III.	100	Gene T. Dyer.
H	H	WSIX	Springfield, Tenn.	100	638 Tire & Vulcanizing Co.
H	H	WSOC	Charlotte, N. C.	100	WSOC, Inc.
d	Ē	WTAX	Springfield, Ill.	100	WTAX, Inc.
		XEC	Toluca, D. F.	50	
		XEE	Durango, Dgo. Monterrey, N. L.	100	R. Junco de la Vega
H	H	XEFV	Juarez, Chih.	100	J. Onfre Meza.
H	H	XETH	Puebla, Pue.	100	Ramon Huertag.
H	H	XEMZ	Tijuana, B. C.	30	Adolfo Labsatida, Jr.
122	O Ki	locycles	245.8 Meters		
			Havara, Cuba	150	Jorge Garcia Serra.
H	H	CMHK	Crnees, Cuba	5.0	Virgilio Villaeuva Fernandez.
H	H	KFKU	Lawrence, Kans.	1000	University of Kansas.
		KTW	Seattle, Wash.	1000	First Presbyterian Church.
		KWSC	Pullman, Wash.	1000	State College of Wash. St. Lawrence University,
H	H	WCAE	Conton, N. Y. Pittsburgh, Pa.	1000	WCAE, Inc.
H	H	WDAE	Tampa, Fla.	1000	Tampa Times Co.
H	H	WREN	Lawrence, Kans.	1000	Jenny Wren Co.
- H			Trieste, Italy	10000	E. I. A. R.
123	0 Ki	locycles	243.8 Meters		
			Lethbridge, Alta.	100	H. R. Carson, Ltd.
H	H	CMCA	Havana, Cuba	150	J. M. Gonzales.
H	n	KGGM	Albuquerque, N. M.	250	New Mex. Broadcasting Co.
		KYA	San Francisco, Cal.	1000	Pacific Broadcasting Corp.
		LS8	Buenos Aires, Arg.	20000	Confed. Esperitista Arg.
			Indianapolis, Ind.	1000	Indianapolis Pow & Lt. Co. Shepard Broadcasting Service, Inc.
	П	WNAU	Boston, Mass.	1000	Shepard Broadcasting Service, Inc.
124	O K	locycles	241.8 Meters		
121	-	The second second			** ***
			Sydney, N. S.	1000	N. Nathanson.
H	H	KGCU	San Spiritus, Cuba Mandan, N. D.	250	Mandan Radio Assn.
H	H	KLPM	Minot, N. D.	250	John B. Cooley.
T		KTAT	Minot, N. D. Forth Worth, Texas Twin Falls, Idaho	1000	Southwest Broadcasting Co.
		KTFI	Twin Falls, Idaho	1000	Radio Broadcasting Corp.
9	H	WKAQ	San Juan, P. R.	1000	Radio Corp. of P. R. Kunsky-Trendle Broadcasting Corp.
H	H	XEAL	Detroit, Mich. Mexico, D. F.	1000	Carlos Gonzales Caballero.
		- August			
125	O Ki	locycles	239.9 Meters		
		,	Long Beach, Cal.	1000	Nicholas & Warinner, Inc.
123	-	TO BOX SE		1000	ATICALVIES OF TREATMENT, LINE,
8	R	KFOX			St Olaf College.
8	R	WCAL	Northfield, Minn,	1000	St. Olaf College. Jos. H. Uhalt.
	B				Jos. H. Uhalt. Hoyt Bros., Inc.
0000		WCAL WDSU WHBI WLB	Northfield, Minn, New Orleans, La, Newark, N. J. Minneapolis, Minn,	1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota,
00000	000000	WCAL WDSU WHBI WLB WNEW	Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn. Newark, N. J.	1000 1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota, WODAAM Corp.
0000000	0000000	WCAL WDSU WHBI WLB	Northfield, Minn, New Orleans, La, Newark, N. J. Minneapolis, Minn,	1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota,
0000000	0000000	WCAL WDSU WHBI WLB WNEW WTCN	Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn. Newark, N. J. Minneapolis, Minn.	1000 1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota, WODAAM Corp.
0000000	0000000	WCAL WDSU WHBI WLB WNEW WTCN	Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn. Newark, N. J. Minneapolis, Minn. 238.0 Meters	1000 1000 1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota. WODAAM Corp. Minnesota Broadcasting Corp.
0000000	0000000	WCAL WDSU WHBI WLB WNEW WTCN	Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn. Newark, N. J. Minneapolis, Minn.  238.0 Meters Edmonton, Alta.	1000 1000 1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota, WODAAM Corp. Minnesota Broadcasting Corp.  Taylor & Pearson, Ltd.
0000000	0000000	WCAL WDSU WHBI WLB WNEW WTCN	Northfield, Minn, New Orleans, La. Newark, N. J. Minneapolis, Minn, Newark, N. J. Minneapolis, Minn,  238.0 Meters Edmonton, Alta. Council Bluffs, Iowa	1000 1000 1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota. WODAAM Corp. Minnesota Broadcasting Corp.  Taylor & Pearson, Ltd. Mona Motor Oil Co. Port Arthur College.
0000000	0000000	WCAL WDSU WHBI WLB WNEW WTCN Ilocycles CFTP KOIL KPAC KRGV	Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn, Newark, N. J. Minneapolis, Minn.  238.0 Meters Edmonton, Alta. Council Bluffs, Iowa Port Arthur, Tex. Weslaco, Texas	1000 1000 1000 1000 1000 1000 1000 500 5	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota. WODAAM Corp. Minnesota Broadcasting Corp.  Taylor & Pearson, Ltd. Mona Motor Oil Co. Port Arthur College. KRGV, Inc.
0000000	0000000	WCAL WDSU WHBI WLB WNEW WTCN Ilocycles CFTP KOIL KPAC KRGV	Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolls, Minn. Newark, N. J. Minneapolls, Minn.  238.0 Meters Edmonton, Alta. Council Bluffs, Iowa Port Arthur, Tex.	1000 1000 1000 1000 1000 1000	Jos. H. Uhalt. Hoyt Bros., Inc. Univ. of Minnesota. WODAAM Corp. Minnesota Broadcasting Corp.  Taylor & Pearson, Ltd. Mona Motor Oil Co. Port Arthur College.

KVOA Tuscon, Ariz.   WLBW Eric, Pa.   WNBX Springfield, Vt.   WTOC Savannah, Ga.	500 Arizona Broadcasting Co. 1000 Broadcasters of Pa., Inc. 1000 WNBX Broadcasting Corp. 500 Savannah Broadcasting Co., Inc.
1270 Kilocycles 236.1 Meters	
HIX Santo Domingo, D. R. KGCA Decorah, Iowa KOL Seattle, Wash. KVOR Colorado Springs, Col. KWLC Decorah, Iowa LS9 Buenos Aires, Arg. WASH Grand Rapids, Mich. WFBR Baltimore, Md. WJDX Jackson, Miss. WOOD Grand Rapids, Mich. XFB Jalapa, Ver.	1000 Dominica Republic, J. R. Saladin, Director. 1000 Chas. W. Greenley. 1000 Seattle Broadcasting Co. 1000 S. H. Patterson. 100 Luther College. 5000 Tagliaferro, Raffo y Cia. 500 Kunsky-Trendle Broadcasting Corp. 500 Baltimore Radio Show, Inc. 1000 Lamar Life Ins. Co. 500 Kunsky-Trendle Broadcasting Corp. 1000 Gobierno Estado de Veracruz.
1280 Kilocycles 234.2 Meters	
CMCO Havana, Cuba KFBB Great Falls, Mont. LU7 Bahla Blanca, Arg. WCAM Camden, N. J. WCAP Asbury Park, N. J. WDOD Chattaneoga, Tenn. WIBA Madison, Wisc. WORC Worcester, Mass. WRR Dallas, Texas WTNJ Trenton, N. J.	150 Assn. Detes Del Comercio. 1000 Buttrey Broadcasting Co. 5000 500 City of Camden. 500 Radio Industries Broadcasting Co. 1000 WDOD Broadcasting Corp. 500 Badger Broadcasting Co., Inc. 500 A. F. Kleindienst. 500 City of Dallas. 500 WOAX, Inc.
1290 Kilocycles 232.4 Meters	
KDYL Salt Lake City, Utah KLCN Blytheville, Ark. KTSA San Antonio, Texas Wibbc Superior, Wise. WJAS Pittsburgh, Pa. WNBZ Saranae Lake, N. Y. WNEL San Juan, P. R.	1000 Intermountain Broadcasting Corp. 100 C. L. Lintzenich. 1000 Southwest Broadcasting Co. 1000 Head of Lakes Broadcasting Co. 1000 Pitts. Radio Supply House. 50 Smith & Mace. 500 Juan Piza.
1300 Kilocycles 230.6 Meters	
CMKJ Guantanamo, Cuba KALE Portland, Ore. KFAC Los Angeles, Cal. KFH Wiehita, Kans. KFJR Portland, Ore. VOAC St. Johns' Nfd. WBBR Brooklyn, N. Y. WEVD New York, N. Y. WFAB New York, N. Y. WFAB New York, N. Y. WFAB Troy, N. Y. WHAZ Troy, N. Y. WIOD Miami, Fla.	20 Luis Morlote. 500 KALE, Inc. 1000 Los Angeles Broadcasting Co., Inc. 1000 Radio Station KFH Co. 500 Ashley C. Dixon. 40 1000 Peoples Pulpit Assn. 1000 Jewish Daily Forward. 1000 5th Ave. Broadcasting Corp. 1000 Greenville News-Piedmont Co. 500 Rensselaer Poly. Inst. 1000 Isle of Dreams Broadcasting Corp.
1310 Kilocycles 228.9 Meters	
CHCK CJKL CJKL CJKL Kirkland Lake, Ont. Yarmouth, N. S. CKCV Quebec, Que. KGCK Guebec, Que. KFPK Sacramento, Cal. Dublin, Texas KFYK Oklahoma City, Okla. KKFV Lubbock, Texas Springfield, Mo. KGEX KGBX Springfield, Mo. KGEX KGFW KGFW KGFW KGFW KGFW KEARN KKFYO BROWN KGEX KGFW KEARN KKED KGFW KEARN KKED KKEW KEARN KKED KKEW KEARN KKED KRED KRED KRED KRED KRED KRED KRED	50 W. E. Burke & J. A. Gesner. 100 Northern Broadcasting Co., Ltd. 100 Laurie L. Smith 50 Vandry, Inc. 100 Chas. C. Robinson. 100 Jas. McClatchy Pub. Co. 100 C. C. Baxter. 15 New Furniture Co. 100 Exchange Ave. Baptist Church. 100 Kirksey Bros. 100 E. E. Krebsbach. 100 Donald C. Treloar. 100 Cent. Neb. Broadcasting Corp. 100 Walley Broadcasters, Inc. 100 Mrs. W. J. Virgin. 101 Radio Station KRMD, Inc. 102 Tri-State Broadcasting Co., Inc. 103 KXRO, Inc. 104 Plattsburg Broadcasting Corp. 105 Southland Radio Corp. 106 Banks of Wabash, Inc. 107 Louis G. Baltimore. 108 WCLS, Inc. 109 Tri-State Broadcasting Co., Inc. 100 Louis G. Baltimore. 101 WT.State Broadcasting Co., Inc. 102 Tri-State Broadcasting Co., Inc. 103 Banks of Wabash, Inc. 104 Louis G. Baltimore. 105 WCLS, Inc. 106 Tri-State Broadcasting Co., Inc. 107 Tri-State Broadcasting Co., Inc. 108 Gable Broadcasting Co., Inc. 109 Gable Broadcasting Co. 100 Gable Broadcasting Co. 100 Flint Broadcasting Co. 100 Flint Broadcasting Co. 100 Flint Broadcasting Co.

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		WHAT	Philadelphia, Pa.	100	Curtis-Martin Newspapers, Inc. WJAC, Inc.	
		WJAC	Johnstown, Pa.	100	WJAC, Inc.	
H	H	WLBC	Muncie, Ind. Laconia, N. H.	100	D. A. Burton. Northern Broadcasting Co., Inc. WMBO, Inc. E. Anthony & Sons, Inc. American Broadcasting Co. Reading Broadcasting Co. Stuart Broadcasting Corp. Grove City College.	
		WMBO	Laconia, N. H. Auburn, N. Y. New Bedford, Mass. Washington, D. C.	100	WMBO, Inc.	
		WNBH	New Bedford, Mass.	100	E. Anthony & Sens, Inc.	
H		WOL	Reading, Pa.	100	Reading Broadcasting Co.	
H	-		Knoxville, Tenn.	100	Stuart Broadcasting Corp.	
		WSAJ				
		WSGN	Birmingham, Ala. Winston-Salem, N. C.	100	R. B. Broyles. Winston-Salem Journal.	
H		WTEL	Philadelphia, Pa.	100		
	0	WTJS	Jackson, Tenn.	100	Foulkrod Radio Eng. Co., Inc. Sun Publishing Co. Truth Radio Corp. Maria E ena Bravo de Cardero. J. Expedito Martinez. J. Molina	
	0	WTRC	Elkhart, Ind.	50.	Truth Radio Corp.	
H	H	XECW	Tampico, Tamps.	70	T Expedito Martinez	
H	H	XEFC	Merida, Yuc.	. 100	J. Molina.	
		XETB	Torreon, Coah.	125	Jose A. Berumen.	
H	H	XEX		125	L. F. Petit Jean.	
П		AFA	Aguascalientes, Ags.	nin i		
132	0 Ki	locycles	227.1 Meters			
		CMBD	Havana, Cuba	150	Luis Perez Garcia	
	H	COX	Havana, Cuba Havana, Cuba	200	Luis Perez Garcia New Station. C. P. Ritchie.	
	12	KGHF	Pueblo, Colo.	500	C. P. Ritchie.	
H	1	KID	Idaho Falls Idaho	250	Honolulu Broadcasting Co., KID Broadcasting Co., Inc.	*
H	10	KSO	Idaho Falls, Idaho Des Moines, Iowa Akron, Ohio York, Pa.	250	Des Moines Register.	
		WADC	Akron, Ohio	1000	Allen T. Simmons.	
		WORK	York, Pa. New Orleans, La.	1000	York Broadcasting Co., WSMB, Inc.	
П		WENTE	New Orleans, La.	500	WSMB, Inc.	
133	0 Ki	locycles	225.4 Meters			
П	grants.	KGB	San Diego, Cal.	1000	Don Lee, Inc. KMO, Inc. Perkins Bros. Co. KTRH Broadcasting Co. WDRC, Inc. Crosley Radio Corp.	
		KMO	Tacoma, Wash.	250	KMO, Inc.	
		KSCJ	Sioux City, Iowa	1000	Perkins Bros. Co.	
H			Houston, Texas Hartford, Conn.	1000	WDRC. Inc.	
H	i i	WSAI	Cincinnati, Ohio	1000	Crosley Radio Corp.	
	-	WTAQ	Eau Claire, Wisc.	1000	Gillette Rubber Co.	
124	0 K:	locuelos	223.7 Meters			
154	U KI	locycles	Spokane, Wash.	1000	Symons Broadcasting Corp.	
H	8	KGDY				
		KGNO	Dodge City, Kans.	250	KGNO Broadcasting Station.	
	103	WCOA				
	=		Manchester N H	500	Pensacola Broadcasting Co.	
H		WFEA	Manchester, N. H.	500	New Hampshire Braodcasting Co.	
			Toledo, Ohio Orizaba, Ver.	1000 250	Toledo Broadcasting Co. Gobierno Estado de Veracruz.	
		WFEA WSPD	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France	500 1000 250 30000	Toledo Broadcasting Co.	
135	O K	WFEA WSPD XFD	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France	1000 250	Toledo Broadcasting Co. Gobierno Estado de Veracruz.	
135	O Ki	WFEA WSPD XFD	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters	1000 250 30000	New Hampshire Broadcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT	
135	O Ki	WFEA WSPD XFD	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho	1000 250 30000	New Hampshire Broadcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill.	
135	O Ki	WFEA WSPD XFD locycles KIDO KWK WAWZ	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J.	1000 250 30000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire.	
135	O Ki	WFEA WSPD XFD locycles KIDO KWK WAWZ	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo.	1000 250 30000	New Hampshire Broadcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc.	
0000		WFEA WSPD XFD locycles KIDO KWK WAWZ WBNX	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.	1000 250 30000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire.	
0000		WFEA WSPD XFD locycles KIDO KWK WAWZ WBNX locycles	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters	1000 250 30000 1000 1000 250 250	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.	
0000		WFEA WSPD XFD locycles KIDO KWK WAWZ WBNX locycles	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba	1000 250 30000 1000 250 250	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.	
0000		WFEA WSPD XFD locycles KIDO KWK WAWZ WBNX locycles CMJP CMKF KGER	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal.	1000 250 30000 1000 1000 250 250 250	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co.	
0000		WFEA WSPD XFD Iocycles KIDO KWK WAWZ WBNX Iocycles CMJP CMKF KGER	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont.	1000 250 30000 1000 250 250 250 75 30 1000 1000	New Hampshire Broadcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc.	
0000		WFEA WSPD XFD locycles KIDO KWK WAWZ WBNX locycles CMJP CMKF KGER KGIR WCSC	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont.	1000 250 30000 1000 250 250 250 250 75 30 1000 1000 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc.	D.
0000		WFEA WSPD XFD Iocycles KIDO KWK WAWZ WBNX Iocycles CMJP CMKF KGER WCSC WFBL WGES	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill.	1000 250 30000 1000 250 250 250 75 30 1000 1000 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station,	
0000		locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGSS WQBC	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss.	1000 250 30000 1000 250 250 250 250 75 30 1000 1000 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co.	
0000		locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGSS WQBC	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill.	1000 250 30000 1000 250 250 250 75 30 1000 1000 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station,	
136		locycles KIDO KWK WAWZ WBNX locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC WSBT	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.	1000 250 30000 1000 250 250 250 250 75 30 1000 1000 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co.	
136		locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.	1000 250 30000 1000 250 250 250 250 75 30 1000 1000 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co.	
136		locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER WGSC WFBL WGES WQBC CKCW CMCN	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moneton, N. B. Havana, Cuba	1000 250 30000 1000 250 250 250 75 30 1000 1000 500 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez.	
136		locycles KIDO KWK WAWZ WBNX locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC WSBT locycles CKCW CMCN CMGE	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moncton, N. B. Havana, Cuba Cardenas, Cuba	1000 250 30000 1000 250 250 250 75 30 1000 1000 500 500 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater.	
136	O COCCO	locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER WGSC WFBL WGES WQBC CKCW CMCN	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moneton, N. B. Havana, Cuba Cardenas, Cuba Havana, Cuba	1000 250 30000 1000 250 250 250 250 1000 1000 500 500 500 500 500 250 250	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater. Rafael Valdez.	
136	O COCCO	locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGER WCSC WFBL WGES WGBL WGES WGBC WFBL WGES WFBL	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moncton, N. B. Havana, Cuba Cardenas, Cuba Havana, Cuba Longview, Texas Enid, Okla.	1000 1000 250 30000 1000 250 250 1000 1000 500 500 500 500 100 250 30 250 30	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandes. Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co.	
136	O COCCO	locycles Kido Kwk Wayz Wbnx  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC CKCW CMCN CMGE COK KCRC KERN	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moneton, N. B. Havana, Cuba Cardenas, Cuba Havana, Cuba Longview, Texas Enid, Okla. Bakersfield, Cal.	1000 250 30000 1000 250 250 250 250 1000 500 500 500 500 500 500 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandes. Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co.	
136	O COCCO	locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC WSBT  locycles CKCW CMCN CMCR KERN KFGQ	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moneton, N. B. Havana, Cuba Cardenas, Cuba Havana, Cuba Longview, Texas Enid, Okla. Bakersfield, Cal.	1000 250 30000 1000 250 250 250 250 1000 1000 500 500 500 500 500 500 1000 250 30 250 100 1000 1000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Coroak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez, Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co. Bee Bakersfield Broadcasting Co. Boone Biblical College,	
136	O COCCO	locycles Kido Kwk Wayz Wbnx  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC CKCW CMCN CMGE COK KCRC KERN	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moncton, N. B. Havana, Cuba Cardenas, Cuba Havana, Cuba Longview, Texas Enid, Okla.	1000 250 30000 1000 250 250 250 250 1000 500 500 500 500 500 500 500 500	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Coroak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater. Rafael Valdez. Voice of Longview, Enid Radiophone Co. Bee Bakersfield Broadcasting Co. Boone Biblical College, Univ. of No. Dakota. Ft. Worth Broadcasters, Inc.	
136	O COCCO	WFEA WSPD XFD  locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WFBL WGES WGBC WFBL WGES WFBL WFJE CKCW CMCN CMCN CMCN CMCN CMCN CMCN CMCN CM	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moncton, N. B. Havana, Cuba Cardenas, Cuba Havana, Cuba Longview, Texas Enid, Okla. Bakersfield, Cal. Boone, Jowa Grand Forks, N. D. Forth Worth, Texas Tucson, Ariz.	1000 1000 250 30000 1000 250 250 250 1000 1000 500 500 500 500 500 1000 1000 1000 1000 1000 1000 1000 1000 1000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co. Bee Bakersfield Broadcasting Co. Boone Biblical College. Univ. of No. Dakota. Ft. Worth Broadcasters, Inc. Tucson Motor Service Co.	
136	O COCCO	WFEA WSPD XFD  locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGIR WOSC WFBL WGES WGES WGES WGES WGES WGES KGIR KGIR KGIR KGIR KGIR KGIR KGIR KGIR	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moncton, N. B. Havana, Cuba Longview, Texas Enid, Okla. Bakersfield, Cal. Boone, Jowa Grand Forks, N. D. Forth Worth, Texas Tucson, Ariz. Oklahoma City, Okla.	1000 250 30000 1000 250 250 250 250 1000 1000 500 500 500 500 500 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co. Bee Bakersfield Broadcasting Co. Boone Biblical College. Univ. of No. Dakota. Ft. Worth Broadcasters, Inc. Tucson Motor Service Co. Oklahoma Broadcasting Co.	
136		WFEA WSPD XFD  locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WFBL WGES WGBC WFBL WGES WFBL WFJE CKCW CMCN CMCN CMCN CMCN CMCN CMCN CMCN CM	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moneton, N. B. Havana, Cuba Longview, Texas Enid, Okla. Bakersfield, Cal. Boone, Lowa Grand Forks, N. D. Forth Worth, Texas Tucson, Ariz. Oklahoma City, Okla. Roswell, N. M. San Angelo, Texas	1000 1000 250 30000 1000 250 250 250 1000 1000 500 500 500 500 500 1000 1000 1000 1000 1000 1000 1000 1000 1000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz. PTT  C. G. Phillips & F. L. Hill. Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Cor Oak Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co. Bee Bakersfield Broadcasting Co. Boone Biblical College. Univ. of No. Dakota. Ft. Worth Broadcasting Co. Oklahoma Broadcasting Co. KGKL, Inc. KGKL, Inc. KGKL, Inc.	
136	O COCCO	WFEA WSPD XFD  locycles KIDO KWK WAWZ WBNX  locycles CMJP CMKF KGER KGIR WCSC WFBL WGES WQBC WSBT  locycles CKCW CMCN CMGE COK KERN KFIZ KGAR KGFG KGFL	Manchester, N. H. Toledo, Ohio Orizaba, Ver. Montpellier, France  222.1 Meters Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.  220.4 Meters Moron, Cuba Holquin, Cuba Long Beach, Cal. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  218.8 Meters Moncton, N. B. Havana, Cuba Longview, Texas Enid, Okla. Bakersfield, Cal. Boone, Jowa Grand Forks, N. D. Forth Worth, Texas Tucson, Ariz. Oklahoma City, Okla.	1000 250 30000 1000 250 250 250 250 1000 1000 500 500 500 500 500 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	New Hampshire Bradcasting Co. Toledo Broadcasting Co. Gobierno Estado de Veracruz, PTT  C. G. Phillips & F. L. Hill, Thomas Patrick, Inc. Pillar of Fire. Standard Cahill Co.  Cesar Canail. Libertad Esq. Arias Consolidated Broadcasting Co. KGIR, Inc. So. Car. Broadcasting Co., Inc. Onondaga Radio Broadcasting Corok Leaves Broadcasting Station, Delta Broadcasting Co. S. B. Tribune.  Moncton Broadcasting Co., Ltd. Aurelio Hernandez. Genaro Sebater. Rafael Valdez. Voice of Longview. Enid Radiophone Co. Bee Bakersfield Broadcasting Co. Boone Biblical College. Univ. of No. Dakota. Ft. Worth Broadcasters, Inc. Tucson Motor Service Co. Oklahoma Broadcasting Co. KGFL, Inc.	

		KLUF	Galveston, Texas	100	George R. Clough,
	P	KMAC	San Antonio, Texas San Antonio, Texas	100	W. W. McAllister,
H		KONO	Berkeley Cal	100	Mission Broadcasting Co. 1st Congregational Church.
H	F	KRKO	Berkeley, Cal. Everett, Wash.	50	Lee E. Mudgett.
H	H	KSLM	Salem, Ore.	100	Oregon Radio, Inc.
H	H	KUJ	Salem, Ore. Walla Walla, Wash.	100	KUJ, Inc.
Ħ		KVL	Seattle, Wash.	100	KVL, Inc.
Ī	1	KWKC	Kansas City, Mo.	100	Wilson Duncan Broadcasting Co.
	画	KWYO	Sheridan, Wyo.	100	Big Horn Broadcasting Co.
			Wilmington, N. C.	100	Richard A. Dunles.
	8	WAGF	Dothan, Ala.	100	Dothan Broadcasting Corp.
H		WEBM	Danville, Va. Baltimore, Md.	100	Piedmont Broadcasting Corp. Baltimore Broadcasting Corp.
H		WDAS	Phliadelphia, Pa.	100	WDAS Broadcasting Co., Inc.
H	H	WGL	Fort Wayne, Ind.	100	F. C. Zieg.
H	F	WABY	Albany, N. Y.	100	WOKO, Inc.
H	10	WHBD	Mt. Orab, Ohio Memphis, Tenn. Calumet, Mich.	100	Veebee Corp.
	0	WHBQ	Memphis, Tenn.	100	Broadcasting Station WHBQ, Inc.
		WHDF	Calumet, Mich.	100	Upper Mich. Broadcasting Co.
		WIBM	Jackson, Mich.	100	WIBM, Inc.
		WJTL	Atlanta, Ga.	100	Oglethorpe University. Albert S. Moffat.
H		WLLH	Lowell, Mass. Jacksonville, Fla.	100	F. J. Reynolds.
		WOC	Davenport, Ia.	100	Palmer School of Chiropractic.
H		WPFB	Hattiesburg, Miss.	100	Otis Perry Eure.
H	n	WQDM	St. Albans, Vt.	100	A. J. St. Antoine & E. J. Regan.
D	0	WRAK	Williamsport, Pa.	100	WRAK, Inc. WRDO, Inc.
	0	WRDO	Augusta, Me.	100	WRDO, Inc.
	0	WRJN	Racine, Wisc.	100	Racine Broadcasting Corp.
		WSVS	Buffalo, N. Y. Nuevo Laredo, Tamps.	100	Seneca Voca. High School. R. T. Carranza.
H	H	XEFE	Mexico City, D. F.	100	Manuel Zetina.
H	H	XEI	Morelia, Mch.	125	Carlos Gutierrez.
H	H		San Luis Potosi, Slp.	100	Emilio Delgado.
-	-				
128	O Ki	locycles	217.3 Meters		
130	-			150	Policiana Isaas
		CMJC	Camaguey, Cuba	150 500	Feliciano Isaac. The Bee, Inc.
H		KOH	Reno, Nev. Pittsburgh, Pa.	500	KQV Broadcasting Co.
H	图	WALA	Mobile, Ala.	500	Pape Broadcasting Corp.
-	100	WKBH	La Crosse, Wisc.	1000	WKBH, Inc.
H	尚	WSMK	Dayton, Ohio	200	S. M. Krohn, Jr.
			New Britain, Conn.	250	William J. Sanders.
		TO PERSONAL PROPERTY.			
139	0 Ki	locycles	215.7 Meters		
П	1003.	CJRC	Winnipeg, Man.	100	Jas. Richardson & Sons, Ltd.
H		нін	S. Pedro de Macoris, D.R.	15	Domingo Dominguez.
H		KLRA	Little Rock, Ark.	1000	Arkansas Broadcasting Co.
		KOY	Phoenix, Ariz.	500	Nielson Radio, Sptg. Gds. Co.
		WHK	Cleveland, Ohlo	1000	Radio Air Service Corp.
140	0 1/1	1	21/12 14-1		
140	UKI	locycles			
			Havana, Cuba	150	Antonio Ginard.
		KLO	Ogden, Utah	500	Interstate Broadcasting Co.
		KTUL	Tulsa, Okla.	250	Tulsa Broadcasting Co., Inc.
		WARD	Guatemala City, Gua.	150 500	U. S. Broadcasting Corp.
H	38	WBBC	Brooklyn, N. Y. Brooklyn, N. Y.	500	Brooklyn Broadcasting Corp.
H	H	WKBF	Indianapolis, Ind.	500	Indianapolis Broadcasting, Inc.
H	-	WLTH	Brooklyn, N. Y.	500	Voice of Brooklyn, N. Y.
П		WVFW	Brooklyn, N. Y.	500	Paramount Broadcasting Corp.
Maria Comment	-	1			
141	0 Ki	locycles	212.6 Meters		
П			Vancouver, B. C.	50	United Church of Canada.
H		CKMO	Vancouver, B. C.	100	Sprott-Shaw Radio Co.
		KGRS	Amarillo, Texas	1000	E. B. Gish.
		WAAB	Boston, Mass.	500	Bay State Broadcasting Corp.
		WBCM	Bay City, Mich. Amarillo, Texas	1000	James E. Davidson.
H	温	WHBL	Sheboygan, Wisc.	500	Natl. Radio & Broadcasting Corp. Press Publishing Co.
H	100	WHIS	Bluefield, W. Va.	250	Daily Telegraph Printing Co.
H	in .	WRBX	Bluefield, W. Va. Roanoke, Va.	250	Richmond Development Corp.
		WROK	Rockford, III.	500	Rockford Broadcasters, Ltd.
		WSFA	Montgomery, Ala.	500	Montgomery Broadcasting Co., Inc.
	0 17		211 1 44		
142	UKI	locycles	211.1 Meters		
		CKGB	Timmins, Ont.	100	Northern Broadcasting Co., Ltd.
		CKNC	Toronto, Ont.	100	Canadian National Carbon, Ltd.
		CMBX	Havana, Cuba	150	Alema Proceduration Co. To-
		KABC	San Antonio, Texas	100	Alamo Broadcasting Co., Inc.

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		KBPS	Portland, Ore.	100	Benson Polytech. School.
H	100	KCMC	Texarkana, Ark.	100	M. P. Mims,
	100		Fond du Lac, Wisc.	100	Reporter Printing Co.
H	100	KGFF	Shawnee, Okla.	100	KGFF Broadcasting Co., Inc.
n		KGGC	San Francisco, Cal.	100	Golden Gate Broadcasting Co.
		KGIW	Alamosa, Colo.	100	Leonard E. Wilson.
		KGIX	Las Vegas, Nev.	100	J. M. Heaton.
	100	KIDW	Lamar, Colo.	100	Lamar Broadcasting Co.
		KORE	Eugene, Ore.	100	C. G. Phillips & F. L. Hill.
		KUMA	Yuma, Ariz.	100	Dr. A. H. Schermann,
		KXL	Portland, Ore.	100	KXL Broadcasters.
		****	Aberdeen, S. D.	100	Aberdeen Broadcasting Co.
	19	WACO	Waco, Texas	100	Southwest Broadcasting Co.
	H	WAGM	Presque Isle, Me.	100	Aroostook Broadcasting Corp.
H		WAZL	Hazelton, Pa.	100	Hazelton Broadcasting Service, Inc.
H		WEED	Rocky Point, N. C. Charlottesville, Va.	100	Wm. Avera Wynne, Community Broadcasting Corp.
H		WEHS	Cleare III	100	WEHS, Inc.
H		WELL	Cicero, III. Battle Creek, Mich.	50	Enquirer News Co.
H	100	WGPC	Albany, Ga.	100	Americus Broadcasting Corp.
H		WHDL	Olean, N. Y.	100	Tupper Lake Broadcasting Co.
H		WHEC	Cicero, III.	100	WHFC, Inc.
H			Wilmington, Del.	100	Delaware Broadcasting Co., Inc.
		WJBO	Baton Rouge, La.	100	Baton Rouge Broadcasting Co., Inc.
n	179	WJMS	Ironwood, Mich.	100	WJMS, Inc.
		WKBI	Cicero, Ill.	100	WKBI, Inc. Amer. Broadcasting Corp. of Ky.
		WLAP	Lexington, Ky.	100	Amer. Broadcasting Corp. of Ky.
	1	WLBF	Kansas City, Kans.	100	WLBF Broadcasting Co.
		WLEU	Erie, Pa.	100	Leo J. Omelian.
		WMAS	Springfield, Mass.	100	WMAS, Inc.
000000000000000000000000000000000000000		WMBC	Detroit, Mich. Joplin, Mo.	100	Michigan Broadcasting Co.
	12	WMBH	Jopin, Mo.	100	W. M. Robertson.
H		WNRA	Muscle Shoals, Ala.	100	Muscle Shoals Broadcasting Corp.
	-	WPAD	Paducah, Ky. Monterrey, N. L.	100	Paducah Broadcasting Co., Inc. Jesus Quantanilla.
		ALLED	Monterrey, A. A.	100	Jesus Quantannia.
142	0 K:	locycles	209.7 Meters		
173	O KI	locycles	209.7 Meters		
	12	KECA	Los Angeles, Cal.	1000	Earle C. Anthony, Inc.
H			North Platte, Neb.	500	Great Plains Broadcasting Co.
H			Cedar Rapids, Iowa	250 500	Cedar Rapids Broadcasting Co.
H			Columbus, Ohio Rochester, N. Y.	500	Internatl. Bible Students Assn. WHEC. Inc.
H	8	WHP	Harrisburg, Pa.	500	Harrisburg Telegraph.
H	- 8	WNBR	Memphis, Tenn.	500	Memphis Broadcasting Co.
H		WOKO	Albany, N. Y.	500	WOKO, Inc.
	Had	4.0			
144	O Kil	ocycles	208.2 Meters		
	-		Casper, Wyo.	500	D. L. Hathaway.
H	8	KIS	Ookland Cal	250	Warner Bros.
H	局	KXYZ	Oakland, Cal. Houston, Texas	250	Harris County Broadcasting Co.
H	10	WBIG	Greensboro, N. C.	500	No. Car. Broadcasting Co., Inc. Lehigh Valley Broadcasting Co.
H	8	TATION A	Allentown, Pa.	250	Total Transport Transport Transport
H					Lenigh valley Broadcasting Co.
	H	WCBA	Peoria, Ill.	500	Peoria Broadcasting Co.
	Ä	WMBD WSAN	Peoria, Ill. Allentown, Pa.		Peoria Broadcasting Co. WSAN, Inc.
	1000	WMBD WSAN WTAD	Peoria, III. Allentown, Pa. Quincy, III.	500 250 500	Peoria Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp.
	- WILLIAM	WMBD WSAN WTAD	Peoria, Ill. Allentown, Pa.	500 250	Peoria Broadcasting Co. WSAN, Inc.
8		WMBD WSAN WTAD XEFI	Peoria, Ill. Allentown, Pa. Quincy, Ill. Chihuahua, Chih.	500 250 500	Peoria Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp.
145	0 Ki	WMBD WSAN WTAD	Peoria, Ill. Allentown, Pa. Quincy, Ill. Chihuahua, Chih.	500 250 500	Peoria Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp.
145	0 Ki	WMBD WSAN WTAD XEFI	Peoria, Ill. Allentown, Pa. Quincy, Ill. Chihuahua, Chih.	500 250 500	Peoria Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp.
145	0 Kil	WMBD WSAN WTAD NEFI	Peoria, III. Allentown, Pa. Quiney, III. Chihuahua, Chih. 206.8 Meters	500 250 500 250	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.
145	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio	500 250 500 250 250 500 1000 500	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co.
145	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio	500 250 500 250 250 50 1000 500 250	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp.
145	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM WSAR	Peoria, III. Allentown, Pa. Quiney, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass.	500 250 500 250 250 1000 500 250 250	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc.
145	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga.	500 250 500 250 250 1000 500 250 250 250 500	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp.
145	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM WSAR	Peoria, III. Allentown, Pa. Quiney, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass.	500 250 500 250 250 1000 500 250 250	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc.
0.00000	0995008	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM WSAR WTFI	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France	500 250 500 250 250 1000 500 250 250 250 500	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc.
0.00000	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM WSAR WTFI	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters	500 250 500 250 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Weich Elec. Co., Inc. Liberty Broadcasting Co.
0.00000	O Kil	WMBD WSAN WTAD XEFI CCCCLES CFCT KTBS WGAR WHOM WSAR WTEI	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co.
0.00000	O Kil	WMBD WSAN WTAD XEFI CCCCLES CFCT KTBS WGAR WHOM WSAR WTEI	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Weich Elec. Co., Inc. Liberty Broadcasting Co.
146	O Kil	WMBD WSAN WTAD XEFI locycles EFCT KTBS WGAR WHOM WSAR WTFI locycles KSTP WJSV	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co.
146	O Kil	WMBD WSAN WTAD XEFI CCCCLES CFCT KTBS WGAR WHOM WSAR WTEI	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co.
146	O Kil	WMBD WSAN WTAD XEFI locycles CFCT KTBS WGAR WHOM WSAR WTFI locycles KSTP WJSV	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co.
146	O Kil	WMBD WSAN WTAD XEFI locycles OFCT KTBS WGAR WHOM WSAR WTFI locycles KSTP WJSV	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpis., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp. Old Dominion Broadcasting Corp.
146	O Kil	WMBD WSAN WTAD XEFI locycles OFCT KTBS WGAR WHOM WSAR WTFI locycles KSTP WJSV	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpis., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp. Old Dominion Broadcasting Corp.
146	O Kil	WMBD WSAN WTAD XEFI OCYCLES OFCT KTBS WGAR WHOM WSAR WTFI OCYCLES WLAC OCYCLES	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters	500 250 500 250 1000 250 250 250 10000 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp.  Life & Casualty Ins. Co.
146	O Kil	WMBD WSAN WTAD XEFI OCYCLES CFCT KTBS WGAR WHOM WSAR WTFI OCYCLES KSTP WJSV	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn, Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla.	500 250 500 250 1000 500 250 250 500 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp. Old Dominion Broadcasting Corp.
146	O Kill	WMBD WSAN WTAD XEFI OCYCLES EFCT KTBS WGAR WHOM WSAR WTFI OCYCLES WLAC OCYCLES WLAC OCYCLES KOMA WKBW	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.	500 250 500 250 1000 250 250 250 10000 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co.
146	O Kill	WMBD WSAN WTAD XEFI OCYCLES EFCT KTBS WGAR WHOM WSAR WTFI OCYCLES WLAC OCYCLES WLAC OCYCLES KOMA WKBW	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.	500 250 500 250 1000 250 250 250 10000 10000	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co.
146	O Kill	WMBD WSAN WTAD XEFI OCYCLES WGAR WHOM WSAR WTFI OCYCLES WLAC OCYCLES KOMA WKBW	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.  201.2 Meters	500 250 500 250 1000 250 250 250 10000 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co. Old Dominion Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co. Buffalo Broadcasting Co.
146	O Kill	WMBD WSAN WTAD XEFI OCYCLES WGAR WHOM WSAR WTFI OCYCLES WLAC OCYCLES KOMA WKBW	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.	500 250 500 250 1000 250 250 250 10000 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co.
146 147 148 149	O Kill O Kill O Kill O Kill O Kill O	WMBD WSAN WTAD XEFI OCYCLES OFCT KTBS WGAR WHOM WSAR WTFI OCYCLES KSTP WJSV OCYCLES KOMA WKBW	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.  201.2 Meters Covington, Ky.	500 250 500 250 1000 250 250 250 10000 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Co. N. J. Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co. Old Dominion Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co. Buffalo Broadcasting Co.
146	O Kill O Kill O Kill O Kill O Kill O	WMBD WSAN WTAD XEFI OCYCLES OCYCLES WASAR WTFI OCYCLES WLAC OCYCLES WASW OCYCLES WEBW OCYCLES WEBW OCYCLES	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.  201.2 Meters Covington, Ky.  199.9 Meters	500 250 500 250 1000 250 250 500 10000 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co. Old Dominion Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co. Buffalo Broadcasting Co. L. B. Wilson, Inc.
146 147 148 149	O Kill O Kill O Kill O Kill O Kill O	WMBD WSAN WTAD XEFI OCYCLES GFCT KTBS WGAR WHOM WSAR WTFI OCYCLES KSTP WJSV OCYCLES WLAC OCYCLES WLAC OCYCLES WCRY	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.  201.2 Meters Covington, Ky.  199.9 Meters Summerside, P. E. I.	500 250 500 250 1000 500 250 500 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co. Old Dominion Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co. Buffalo Broadcasting Co. L. B. Wilson, Inc.
146 147 148 149	O Kill O Kill O Kill O Kill O Kill O	WMBD WSAN WTAD XEFI OCYCLES OFFET KTBS WGAR WHOM WSAR WTFI OCYCLES KOMA WKBW OCYCLES WCKY OCYCLES CHGS CMCN	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.  201.2 Meters Covington, Ky.  199.9 Meters Summerside, P. E. L. Havana. Cuba	500 250 500 250 1000 250 500 250 500 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co. Old Dominion Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co. Buffalo Broadcasting Co. L. B. Wilson, Inc.  R. T. Holman, Ltd.
146 147 148 149	O Kill O Kill O Kill O Kill O Kill O	WMBD WSAN WTAD XEFI OCYCLES OFFET KTBS WGAR WHOM WSAR WTFI OCYCLES KOMA WKBW OCYCLES WCKY OCYCLES CHGS CMCN	Peoria, III. Allentown, Pa. Quincy, III. Chihuahua, Chih.  206.8 Meters Victoria, B. C. Shreveport, La. Cleveland, Ohio Jersey, City N. J. Fall River, Mass. Athens, Ga. Fecamp, France  205.4 Meters St. Paul-Mpls., Minn. Washington, D. C.  204.0 Meters Nashville, Tenn.  202.6 Meters Oklahoma City, Okla. Buffalo, N. Y.  201.2 Meters Covington, Ky.  199.9 Meters Summerside, P. E. I.	500 250 500 250 1000 500 250 500 10000 5000 5	Peorla Broadcasting Co. WSAN, Inc. Illinois Broadcasting Corp. Feliciano Lopez.  Victoria Broadcasting Assn. Tri-State Broadcasting System. WGAR Broadcasting Corp. Doughty & Welch Elec. Co., Inc. Liberty Broadcasting Co.  Natl. Battery Broadcasting Co. Old Dominion Broadcasting Corp.  Life & Casualty Ins. Co.  Natl. Radio Mfg. Co. Buffalo Broadcasting Co. L. B. Wilson, Inc.



John J. Baxter, member of the board of directors of The Newark News Radio Club, London, England, writes that Eiffel Tower is to cease broadcasting.... that Lima, Peru, now has what is claimed to be the most powerful short wave station in South America-20 kilowatts on 38.36 meters....that broadcasting in Esthonia is to be nationalized soon; plans have already been prepared for a 40 KW station....that there will be no transmissions from Sottens, (Radio Suisse Romande) for the first few months of 1935 but they are boosting power to 50 KW....that there is talk of introducing licenses for listeners in Holland ... . "Pay what you can afford, when you can afford it and if you cannot pay, well, then they will say "forget it", says the Lon-News Chronocle...that Broadcasting Corp., adult education talks have been reduced to three a week .... that Rome's power is going to a new very soon-150 kilowatts after which listners in North America should be able to receive it .... that all New Zealand stations are scheduled to increase power, that the new Lahti transmitter, 150 to 200 KW is going up soon ....that Radio-Rennes. France, will be on the air with 40 KW shortly and that Poland has equipped its long distance trains with radio.

A delegation of NNRC hams is forming a chapter in the club and will be pleased to hear from other members possessing "tickets." Headed by Willard W. Pope. 308 Elm Street, Kearny, N. J., (W2HRN), the committee includes Howard Beidleman, (W2FHC), East Orange, N. J.: Sid Kaufman, (W1IFH), West Hartford, Conn.; William E. Mays, Charles (W2CEJ), Linden, N. J.; O'Brien, (W2EQS), Jersey City, N. J.; Clement Van Velsor, (W2HNX), Irvington, N. J., and William Tucker, (W2FXE), also of Irvington, N. J.

The committee desires the following information: 1—A brief description of your rig, giving input power to the final; type of tubes and circuit. 2—When you first went on the air and if previously any other call was assigned to you. 3—Which band or bands do you work most. 4—Whether you go in for DX, traffic or rag chews. 5—Whether you are CW, of one or both. 6—Your recent, outstanding ham activities. 7.—Highlights of your ham career that would be of interest to others. Communications-should be directed to Chairman Pope at the address given above.

# MONTHLY FREQUENCY TESTS (Time is A.M., Eastern Standard; Frequencies in Kilocycles)

	(Time is A.M., Lastern Standar	u, Frequen	cies in renocycles)
	FIRST MONDAY	3.50 to 4.10	1370-WAGF, Dothan, Ala.
		4.00 to 4.20	1200-KWG, Stockton, Calif.
2.00 to 2.20	1500-WCNW, Brooklyn, N. Y.	4.10 to 4.30	1310-WTJS, Jackson, Tenn.
	1310-WJAC, Johnstown, Pa.		1506—KPJM, Prescott, Ariz.
2.10 to 2.30	1210-WFAS, White Plains, N. Y.	4.20 to 4.40	1370—WPFB, Hattiesburg, Miss.
	1370—WRAK, Williamsport, Pa.		1370—KERN, Bakersfield, Calif.
2.20 to 2.40	1500-WNBF, Binghamton, N. Y.	4.30 to 4.50	1420-WGPC, Albany, Ga.
	580—WCHS, Charleston, W. Va.		1500—KXO, El Centro, Calif.
2.30 to 2.50	1420—WAGM, Presque Isle, Me.	4.40 to 5.00	1200—WBNO, New Orleans, La.
0.404 0.00	1370—WBTM, Danville, Va.	1 70 4- 7 10	1210—KIEM, Eureka, Calif.
2.40 to 3.00	1200—WLVA, Lynchburg, Va.	4.50 to 5.10	1310-WROL, Knoxville, Tenn. 1440-KLS, Oakland, Calif.
2.50 to 3.10	1420—WHDL, Olean, N. Y. 1310—WHAT, Philadelphia, Pa.	5.00 to 5.20	1500-WDNC, Durham, N. C:
3.00 to 3.20	1200—WCAX, Burlington, Vt.	3.00 to 3.20	1420—KGIX, Las Vegas, Nev.
3.10 to 3.30	1500—WSYB, Rutland, Vt.	5.10 to 5.30	1200-WJBW, New Orleans, La.
3.10 (0 3.30	1310—WTEL, Philadelphia, Pa.	0.10 10 0.00	1320—KGMB, Honolulu, Hawaii.
3.20 to 3.40	1200—WIBX, Utlea, N. Y.	5.20 to 5.40	1310-WAML, Laurel, Miss.
3,30 to 3.50	1370-WQDM, St. Albans, Vt.	0.40 10 0110	1370—KRE, Berkeley, Calif.
0.00 10 0.00	1210-WKOK, Sunbury, Pa.	5.30 to 5.50	1210-WSIX, Springfield, Tenn.
3.40 to 4.00	1310-WMBO, Auburn, N. Y.		750-KGU, Honolulu, Hawaii.
3.50 to 4.10	1370-WABY, Albany, N. Y.	5.40 to 6.00	1370-KGAR, Tueson, Ariz.
	1210-WBAX, Wilkes-Barre, Pa.	5.50 to 6.10	1310-KCRJ, Jerome, Ariz.
4.00 to 4.20	1220-WCAD, Canton, N. Y.	6.00 to 6.20	1100-KGDM, Stockton, Calif.
	1200-KOOS, Marshfield, Ore.	6.10 to 6.30	1200-KSUN, Lowell, Ariz.
4.10 to 4.30	1210-WBBL, Richmond, Va.	6.20 to 6.40	740-KTRB, Modesto, Calif.
	900-KGBU, Ketchikan, Alaska.		
4.20 to 4.40	1290-WNBZ, Saranac Lake, N. Y.		FIRST WEDNESDAY
	1310-WBRE, Wilkes-Barre, Pa.		TIKST WEDINESDAT
	1200-KGVO, Missoula, Mont.	2.00 to 2.20	1310-WEBR, Buffalo, N. Y.
4.30 to 4.50	1200-WNBO, Washington, Pa.	2.10 to 2.30	920-WPEN, Philadelphia, Pa.
	1500—KPQ, Wenatchee, Wash.	2.20 to 2.40	1310-WSAJ, Grove City, Pa.
4.40 to 5.00	1310-WRAW, Reading, Pa.	2.30 to 2.50	1410-WHIS, Bluefield, West Va.
	1210—KGY, Olympia, Wash.	2.40 to 3.00	1310-WFBG, Altoena, Pa.
4.50 to 5.10	940-WAAT, Jersey City, N. J.	2.50 to 3.10	1200-WPHR, Petersburg, Va.
	1370—KRKO, Everett, Wash.	3.00 to 3.20	1370—WDAS, Philadelphia, Pa.
5.00 to 5.20	570-WSYR-WSYU, Syracuse, N.Y.		1500-WKBB, East Dubuque, III.
	1200-KFXD, Nampa, Idaho.	3.10 to 3.30	1410-WRBX, Roanoke, Va.
5.10 to 5.30	600-WCAC, Storrs, Conn.		1200—WHBC, Canton, O.
	1370—KVL, Senttle, Wash.	2 20 40 2 40	1420—KGIW, Trinidad, Colo.
5.20 to 5.40	1310—KGEZ, Kalispell, Mont.	3.20 to 3.40	1210—WMBG, Richmond, Va. 1310—WTRC, Elkhart, Ind.
5.30 to 5.50	1370—KUJ, Walla Walla, Wash.		1370—KICA, Clovis, N. M.
5.40 to 6.00 5.50 to 6.10	1310—KGCX, Wolf Point, Mont. 780—KFQD, Anchorage, Alaska.	3.30 to 3.50	1370—WSVS, Buffalo, N. Y.
6.00 to 6.20		3130 10 0100	1410—WBCM, Bay City, Mich.
6.10 to 6.30			1200—KGHI, Little Rock, Ark.
6.20 to 6.40		3.40 to 4.00	1310-WGH, Newport News, Va.
6.30 to 6.50			630—WGBF, Evansville, Ind.
6.40 to 7.00			1420-KIDW, Lamar, Colo.
6.50 to 7.10		3.50 to 4.10	1210-WOCL, Jamestown, N. Y.
7.00 to 7.20			1410-WROK, Rockford, Ill.
7.10 to 7.30			1200-KBTM, Jonesboro, Ark.
7.20 to 7.40		4.00 to 4.20	880-WQAN, Scranton, Pa.
			1310-WBOW, Terre Haute, Ind.
	FIRST TUESDAY		1280-KFBB, Great Falls, Mont.
		4.10 to 4.30	1430-WHEC, Rochester, N. Y.
2.00 to 2.20	1210—WQDX, Thomasville, Ga.		570-WOSU, Columbus, Ohio.
2.10 to 2.30	1200—WBHS, Huntsville, Ala.		1370—KGFL, Roswell, N. M.
2.20 to 2.40		4.20 to 4.40	1190-WSAZ, Huntington, W. Va.
2.30 to 2.50		4 20 4 4 4	1310-WBEO, Marquette, Mich.
2.40 to 3.00		4.30 to 4.50	1500—WGAL, Lancaster, Pa.
2.50 to 3.10			570-WKBN, Youngstown, Ohio.
3.00 to 3.20 3.10 to 3.30		4.40 to 5.00	1250—WCAL, Northfield, Minn.
3.20 to 3.40		4.40 to 5.00	1070-WCAZ, Carthage, III.
3.30 to 3.50		4.50 to 5.10	1200—KFJB, Marshalltown, Ia.
3.40 to 4.00		2.50 10 5.10	1400-WKBF, Indianapolis, Ind.
			1420-WACO, Waco, Tex.

5.00 to 5.20	1070—WDZ, Tuscola, III. 1200—KGDE, Fergus, Falls, Minn.	3,30 to 3.50	1420—WELL, Battle Creek, Mich. 1200—KGEK, Sterling, Colo.
5.10 to 5.30	900-WLBL, Stevens Point, Wis. 1250-WLB, Minneapolis, Minn.	3.40 to 4.00	1210—WALR, Zanesville, O. 1310—KFPL, Dublin, Tex.
5.20 to 5.40	890—WBAA, West Lafayette, Ind. 1200—WIL, St. Louis, Mo.	3.50 to 4.10	1420—WMBC, Detroit, Mich. 1200—WCAT, Rapid City, S. D.
5.80 to 5.50	1440-WTAD, Quiney, III. 1320-KGHF, Pueblo, Colo.	4.00 to 4.20	1310—WFDF, Flint, Mich. 1240—KGCU, Mandan, N. D.
5.40 to 6.00	1240-WXYZ, Detroit, Mich.	4.10 to 4.30	1200-WFBE, Cincinnati, O. 1370-KWYO, Sheridan, Wyo.
	FIRST THURSDAY	4.20 to 4.40	1450-WGAR, Cleveland, O. 1240-KLPM, Minot, N. D.
2.00 to 2.20	1210-WSOC, Charlotte, N. C.	4 30 to 4 50	1200-WCLO, Janesville, Wis.
2.10 to 2.30	920-WSPA, Spartanburg, S. C.	2100 20 2100	1370-KGFG, Oklahoma City, Okla.
2.30 to 2.50	1310-WSGN, Birmingham, Ala.	4.40 to 5.00	1310-WCLS, Joliet, Ill.
2.40 to 3.00	1420-WJBO, Baton Rouge, La.		1420-KABC, San Antonio, Tex.
2.50 to 3.10	1210-WGCM, Gulfport, Miss.	4.50 to 5.10	1200-WJBL, Decatur, Ill.
3.00 to 3.20	1500-WRDW, Augusta, Ga.		1370-KFJZ, Fort Worth, Tex.
	1200-WHBY, Green Bay, Wis.	5.00 to 5.20	1500-WJBK, Detroit, Mich.
	1310-WDAH, El Paso, Tex.		1430-KWCR, Cedar Rapids, Ia.
3.10 to 3.30	1240-WKAQ, San Juan, P. R.	5.10 to 5.30	1210-WIBU, Poynette, Wis.
	1420-WJMS, Ironwood, Mich.		1500-KGFI, Corpus Christi, Tex.
	1370—KLUF, Galveston, Tex.	5.20 to 5.40	1370-WHDF, Calumet, Mich.
3.20 to 3.40	1360—WCSC, Charleston, S. C. 1210—WEDC, Chicago, Ill.		1420-WLBF, Kansas City, Kan.
	1310—KTSM, El Paso, Tex.	5.30 to 5.50	1210-WCRW, Chicago, Ill.
3.30 to 3.50			1500—KGKB, Tyler, Tex.
	1370—KGKL, San Angelo, Tex.	5.40 to 6.00	1330-WTAQ, Eau Claire, Wis.
3.40 to 4.00			1420-WMBH, Joplin, Mo.
	1210—WSBC, Chicago, III.	2.10 to 2.30	1210-WBRB, Red Bank, N. J.
	1310—KFPM, Greenville, Tex.		
3.50 to 4.10	1360—WQBC, Vicksburg, Miss. 1420—KFIZ, Fond du Lac, Wis.		FIRST SATURDAY
			The second was the second was an
	1370—KMAC, San Antonio, Tex.	2.20 to 2.40	1500-WWRL, Woodside, N. Y.
4.00 to 4.20	1370—KMAC, San Antonio, Tex. 580—WDBO, Orlando, Fla.	2.20 to 2.40 2.30 to 2.50	1500-WWRL, Woodside, N. Y. 1210-WGNY, Chester Twp. N. Y.
4.00 to 4.20	The second of the second		1210-WGNY, Chester Twp. N. Y.
	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, Ill. 1310—KFYO, Lubbock, Tex.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10	1210-WGNY, Chester Twp. N. Y. 1500-WMBQ, Brooklyn, N. Y. 1210-WGBB, Freeport, N. Y.
4.00 to 4.20	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, Ill. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn.	2.30 to 2.50 2.40 to 3.00	1210-WGNY, Chester Twp. N. Y. 1500-WMBQ, Brooklyn, N. Y. 1210-WGBB, Freeport, N. Y. 1430-WOKO, Albany, N. Y.
	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, III. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10	1210-WGNY, Chester Twp. N. Y. 1500-WMBQ, Brooklyn, N. Y. 1210-WGBB, Freeport, N. Y. 1430-WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill.
4.10 to 4.30	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, III. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10 3.00 to 3.20	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex.
	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, III. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex. 1370—WGL, Fort Wayne, Ind.
4.10 to 4.30	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, III. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex. 560—WQAM, Miami, Fla. 1210—WHBF, Rock Island, III.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10 3.00 to 3.20	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex.
4.10 to 4.30 4.20 to 4.40	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, Ill. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex. 560—WQAM, Miami, Fla. 1210—WHBF, Rock Island, Ill. 1220—WDAE, Tampa, Fla. 1500—WKBZ, Muskegon, Mich.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10 3.00 to 3.20 3.10 to 3.30	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex. 1370—WGL, Fort Wayne, Ind. 1210—KFPW, Fort Smith, Ark.
4.10 to 4.30 4.20 to 4.40 4.30 to 4.50	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, Ill. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex. 560—WQAM, Miami, Fla. 1210—WHBF, Rock Island, Ill. 1220—WDAE, Tampa, Fla. 1500—WKBZ, Muskegon, Mich. 1370—KFJM, Grand Forks, N. D.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10 3.00 to 3.20 3.10 to 3.30 3.20 to 3.40	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex. 1370—WGL, Fort Wayne, Ind. 1210—KFPW, Fort Smith, Ark. 810—WNYC, New York City. 1200—WWAE, Hammond, Ind. 1120—WTAW, College Station, Tex.
4.10 to 4.30 4.20 to 4.40 4.30 to 4.50 4.40 to 5.00	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, Ill. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex. 560—WQAM, Miami, Fla. 1210—WHBF, Rock Island, Ill. 1220—WDAE, Tampa, Fla. 1500—WKBZ, Muskegon, Mich. 1370—KFJM, Grand Forks, N. D. 1210—WCBS, Springfield, Ill.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10 3.00 to 3.20 3.10 to 3.30	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1290 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex. 1370—WGL, Fort Wayne, Ind. 1210—KFPW, Fort Smith, Ark. 810—WNYC, New York City. 1200—WWAE, Hammond, Ind. 1120—WTAW, College Station, Tex. 1130—WOV, New York City.
4.10 to 4.30 4.20 to 4.40 4.30 to 4.50	580—WDBO, Orlando, Fla. 1210—WEBQ, Harrisburg, III. 1310—KFYO, Lubbock, Tex. 1430—WNBR, Memphis, Tenn. 1200—WMPC, Lapeer, Mich. 1370—KONO, San Antonio, Tex. 560—WQAM, Miami, Fla. 1210—WHBF, Rock Island, III. 1220—WDAE, Tampa, Fla. 1500—WKBZ, Muskegon, Mich. 1370—KFJM, Grand Forks, N. D. 1210—WCBS, Springfield, III. 880—WCOC, Meridian, Miss.	2.30 to 2.50 2.40 to 3.00 2.50 to 3.10 3.00 to 3.20 3.10 to 3.30 3.20 to 3.40	1210—WGNY, Chester Twp. N. Y. 1500—WMBQ, Brooklyn, N. Y. 1210—WGBB, Freeport, N. Y. 1430—WOKO, Albany, N. Y. 1200 WJBC, Bloomington, Ill. 1330—KTRH, Houston, Tex. 1370—WGL, Fort Wayne, Ind. 1210—KFPW, Fort Smith, Ark. 810—WNYC, New York City. 1200—WWAE, Hammond, Ind. 1120—WTAW, College Station, Tex. 1130—WOV, New York City. 1310—WLBC, Muncie, Ind.
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5.20 to 5.40 1340—WSPD, Toledo, O. 760—WEW, St. Louis, Mo.

5.30 to 5.50 1210—KWEA, Shreveport, La. 5.40 to 6.00 880—WSUI, Iowa City, Ia.

5.50 to 6.10 1230—KGGM, Albuquerque, N. M.

#### FIRST SUNDAY

1290-KLCN, Blytheville, Ark. 3.00 to 3.20 1440-KXYZ, Houston, Tex. 3.30 to 3.50 3.50 to 4.10 1400-KTUL, Tulsa, Okla. 1260-KPAC, Port Arthur, Tex. 4.00 to 4.20 1340—KGDY, Huron, S. D. 1260—KRGV, Weslasco, Tex. 890—KARK, Little Rock, Ark. 4.10 to 4.30 4.20 to 4.40 4.50 to 5.10 570-KGKO, Wichita, Falls, Tex. 5.00 to 5.20 1010-WNAD, Norman, Okla. 5.20 to 5.40 1260-KUOA, Fayetteville, Ark 5.40 to 6.00

# CANADIAN FREQUENCY CHECKS

Following is a list of eastern Canadian stations required to transmit special test programs the 19th and 20th of each month for the CRC monitor at Ottawa. Time is A. M., and Eastern Standard:

12.41 to 12.49 CKPC, 930 kes., Brantford, Ontario

12.51 to 12.59 CHNS, 930 kes., Hallfax, Nova Scotia

1.01 to 1.09 CFCY, 630 kcs., Charlottetown, P. E. I.

1.11 to 1.19 CJLS, 1310 kes., Yarmouth, Nova Scotia

1.21 to 1.29 CFPL, 730 kes., London, Ontario

1.31 to 1.39 CJKL, 1310 kes., Kirkland Lake, Ontario

1.41 to 1.49 CHNC, 1210 kcs., New Carlisle, Quebec

1.51 to 1.59 CFNB, 550 kcs., Fredericton, N. B. 2.01 to 2.09 CHRC, 580 kcs., Quebec City, Quebec

2.11 to 2.19 CFCH, 930 kes., North Bay, Ontario

2.21 to 2.29 CRCS, 950 kcs., Chicoutimi, Quebec

2.31 to 2.39 CKGB, 1420 kes., Timmins, Ontario

2.41 to 2.49 CKCL, 580 kcs., Toronto, Ontario 2.51 to 2.59 CKTB, 1200 kcs., St. Catharines, Ontario

3.01 to 3.09 CHSJ, 1120 kes., St. John, N. B.

Radio Prieto, LS2, Buenos Aires, will transmit a special courtesy program for The Newark News Radio Club November 25, on 1190 kilocycles, from 2.30 to 4 A.M., EST. To consist of popular recording and American songs, typical Argentine orchestras and singers of tangos, and to be announced in English and Spanish, this broadcast should be of especial appeal to distant listeners in all sections of the northern hemisphere. It was arranged by Carl Forestieri, a member of the club, 463 East 185th Street, New York City.

#### DX CHATTER

DO YOU KNOW . . . that a new station is scheduled to operate on 1380 kcs., 250 watts, daytime, in New Britain, Conn., as is one in Hibbing, Minn., on 1210 kcs., 100 watts, unlimited time (and still they come!) . . . that WGLC, Hudson Falls, N. Y., is definitely moving to Albany with possibly a change of call . . . that WBAA, West Lafayette, Ind., now has 1000 watts on 890 kcs., instead of 500 on 1400 kcs. . . . that WALR, of 500 on 1400 kcs. . . . that Zanesville, O., has been refused permission (so far) to move to Toledo . . . that WEHC, Charlottesville, Va., moves from 1350 to 1420 kcs., with 100 watts night power . . . that New York is to have another new station; this one in Plattsburg, on 1310 kcs., with 100 watts ... that another new station has been given a construction permit to operate on 1370 kcs., 100 watts, in Longview, Tex. ... that the Cuban on 955 kcs., is reported as CMCQ, Havana . . . that CMO, Havana, now on 840 kcs., is using 5000 watts?

# THE STATION'S VIEWPOINT (Continued from Page 8)

time you played a selection—not only one but oftentimes five and even a complete program. That's the kind of a report we like to receive because it contains not only information about the program but weather conditions, strength of our signals, whether we fade and in fact, the entire dope. We receive about four or five such reports every DX program and how our engineering department fights for those letters! This type of fan also encloses return postage or a return postal card. He's a pal!

After DX programs we let our mail accumulate for a few days and then my secretary has the job of acknowledging and is it a mess! Eventually, all of it is taken care of and we feel happy to think that we ran the program. Then some bird writes in about six or eight weeks later and wants a verification. He probably saw one his friend had and wants to get one himself even though he was asleep during the broadcast. So I ask you DX fan what would you do? Well,

that's just what we did.

Of course, we are only a small station out here in Indiana but if the trials and tribulations of a DX program are ten times worse than ours on a 10,000 watt station, I certainly sympathize with you 10.000 watters.

Think it over, DXers. Get a return postal card from the post office, fill it out when you want a verification, send it in and 95 per cent of your verification troubles will be permanently over.

# TUNING THE SHORT WAVES

It is important that the short wave listener tune very slowly and carefully over the short wave bands. An almost imperceptible movement of the dial is enough to pass by a weak short wave station. In many cases it will be found that short wave stations are spaced less than a hairline apart but by careful tuning each station can be logged separately.

By careful tuning many weak stations may be brought in with good volume. A slight hiss on each side of the frequency This is more indicates a weak station. evident if the tone control is turned to the Tune to the quiet point between the hissing sound because this point provides the best reception. This hissing sound is often of assitance in locating stations whose transmitters are on but which are not operating at the moment.

Short wave listeners should not expect dial markings to be 100 per cent correct. For instance, EAQ, Madrid, Spain, operates exactly on 10 megacycles, but on your set it may come in slightly to the right or to the left of that mark. This is true of any short wave station. If you are a DX fan you will find that it helps to jot down the actual dial positions for the various frequencies. This practice will help you in tuning and identifying stations of known frequency.

## WHEN TO TUNE

The best time to tune on these four bands is as follows: In early morning and daytime, tune very slowly at the 10, 12, and 15 megacycle bands. In the afternoon and night, tune slowly at the 6 and 10 megacycle bands. Remember the differ-New York, it is 1 A. M. in London. At this hour most of the European stations have signed off, but numerous South American stations are still operating.

Do not expect to receive a foreign short wave station merely because it is scheduled to be in operation. Reception conditions and local interference are determining factors in deciding which stations you can hear at any particular time.

SKIPPING

Many a short wave listener has undoubtedly been puzzled over his inability to hear a powerful American short wave station located comparatively near when by turning his dial a bit, he can receive a program from a station a thousand miles away clearly and powerfully. The reason is that the ground wave of a short wave transmitter follows the ground only a short distance before it loses its power and cannot be heard while the aerial component shoots off into space, continuing until it hits what is known as the Heavi-side layer and is reflected back to earth at some distance from the transmitter. Thus, a listener may be so located that

he is just outside of the range of the ground wave of a station and in an area where the sky wave has not yet returned to earth. Therefore, he does not hear this station which may be fairly close to him yet hear perfectly, other stations hundreds of miles farther away.

## STATION IDENTIFICATIONS

Many short wave stations announce in several languages, including English. A good many have characteristic signatures some of which are listed below:

DJA, DJB, etc.—Zeesen, Germany. Signs in English, Spanish and German. Plays characteristic eight-bar chime selection during intermission.

EAQ—Madrid, Spain cycles). Signs in English. (10.0 mega-

FYA-Pontoise, France (11.705, 11.905, 15.240 megacycles). Plays "Marseillaise" at start and close of program. "Hello, hello, ici Paris, Radio-Coloniale, 103 Rue de Grenelle."

GSA GSB, etc.—Daventry, England. Announces "London calling." Plays "God Save the King," and gives Big Ben chimes on the hour.

HVI-Vatican City (5.970 and 15.120 megacycles). Announces "Pronto, pronto, Radio Vaticano."

negacycles). Lady announcer, "Radio Roma" or "Radio Roma Napoli."

OXY—Skamleback, Denmark (6.090 and 9.520 megacycles). Broadcasts midnight chimes at 6 P. M. (EST).

PRADO-Riobamba, Ecuador megacycles). Announces "Estacion El

Prado, Rio Bamba, Ecuador." RV59—Moscow, U. S. S. R. (6.0 megacycles). Broadcasts midnight chimes from the Kremlin at 5 P. M. (EST).

SR1—Poznan, Poland (9.49 and 9.57 megacycles). Anounces "Hello, hello,

Polski Radjo-Poznan."

T14NRH-Heredia, Costa Rica (9.670 and 15.075 megacycles). Bugle call or tic-tac between selections.

VK2ME-Australia (9.590 megacycles). laughing notes of the Kookaburra bird open and close program.

By special arrangement with the International DXers Alliance, VK2ME, Sydney, Australia, will dedicate three special broadcasts to the Canadian provinces, Alaska, and Yukon. The programs will be transmitted on 28.5 meters December 9 as follows: 2.15 to 3 A.M.: Alaska, Yukon, British Columbia, Alberta, Saskatchewan; 6.30 to 7 A.M.: Manitoba, Ontario; 7 to 7.30 A.M.: Quebec, New Brunswick, Nova Scotia. Time is Eastern Standard. VK2ME desires reports of reception on these broadcasts and will verify promptly.

# SHORT WAVE NOTES

THEY SAY . . . that the "mysterious" Spanish speaking station on 6,720 kilocycles is really the harmonic of XENT, Nuevo Laredo, Mexico . . . that quite close to the aforementioned frequency, 6,700 kcs., to be exact, is TIEP, "The Voice of the Tropics," San Jose, Costa Rica, whose present schedule is from 3 to 9 P. M., sometimes as late as 10 P. M., almost daily, in conversation with amateur T12EP, address Apartado 257, San Jose . . . that YV2RC, Caracas, Venezuela, a regular visitor to these parts can be heard on 6,112 kcs. (very close to the frequency of W3XAL) almost every evening from 6 to 9 and 10 . . . that CMPN, the Havana Police station, formerly a BC station, has been relegated to 1,712 kcs., or 175 meters . . . that COC, Havana, is using 6,010 kcs., 49.9 meters

W2XAF, Schenectady, N. Y., have arranged a special broadcast for International Rotary Clubs starting 9 P. M., November 15; (members of both cities will hold a two-way conversation) . . . that LSX uses 10,350 kcs. (28.98 meters) and W2XAF 9,530 kcs. (31.48 meters)

... that an Indian station on 9,566 kcs., has been identified as VUY, the regular schedule of which is 11:30 A. M. to 12:30 P. M., E.S.T., relaying the programs of VUB, Bombay, India ... VUY, or as some report it, VWY, is located in Kirkee, India ... that said stations are very class to WIXAZ Boston, so have so close to WIXAZ, Boston, so have selectivity on your receiver; you'll need it . . . that single, copper enameled wire is judged better for SW reception than stranded . . . that HJIABE, Cartagena, Colombia, 7001 kcs., is on from 8 to 9 Colombia, 7001 kcs., is on from 8 to 9 P. M., E.S.T., every evening . . . that NJIABB, Baranquilla, Colombia, is on 6,450 kcs., daily from 7 to 10 P. M., . . . that the address of VK2ME, Melbourne, Australia, is G. P. O., Box 1272L . . . that OER2, Vienna, Austria, about 6,070 kcs., (49.4 meters), is considered a rare catch, operates irregularly, and is usually on the air during the early morning hours ... that PHI, Huizen, Holland, is now being heard on 11,730 kcs., instead of their old 17,770 . . . that HJ13ABD, Colombia, moved from their old frequency to 7,410 kcs., (40.5 meters) . . . that their scheduled time is 7 to 11 P. M., E.S.T.,

daily. The International DXers Alliance announces three short wave broadcasts. The first, November 24, is to come from XEBT, Mexico City, at 11 P. M., E.S.T. Operating on 6,010 kcs., or 49.92 meters, XEBT's program will feature Enrique Guerrero, tenor (a member of the club) and the Mexican Variety Hour. The second, December 16, will be transmitted by HBP, Geneva, Switzerland, 7,800 kcs., 38.47 meters, from 5 to 6 P. M., E.S.T., direct from the League of Nations and will be in the nature of a "surprise program."

Then on December 21, from 1 to 3 A. M., E.S.T., HJN, Bogota, Colombia, 6,079 kcs., 49.35 meters, will broadcast with their new transmitter. Reports should be addressed to HJN Ministerio de Correros y Telegrafos, Bogota.

# NNRC COURTESY PROGRAMS COMMITTEE

Louis Hahn, Chairman, 120 West 62nd Street, New York City: 1000, 1010, 1020, 1030, 1040, 1050, 1060 kilocycles, eastern Mexico and foreign programs.

William H. Applegate, Vice Chairman, 447 North Waller Avenue, Chicago: Canadian programs.

Fred W. Janssen, Vice Chairman, 220 South Santa Cruz Street, Ventura, Cal.: 1500 kilocycles and western Mexico.

Alec Kinghorn, Apartado 2488, Havana, Cuba: Cuban programs.

Arthur E. Foerster, 1213 Bosart Avenue, Indianapolis, Ind.: 1320, 1330, 1340, 1350, 1360, 1370 kilocycles.

Philip R. Nichols P. O. Box 82, East Hartford, Conn.: 860, 870, 880, 890, 900, 910, 920 930 kilocycles.

Carroll H. Weyrich 4310 Evans Chapel Road, Baltimore, Md.: 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300 kilocycles.

William Vornkahl, Westport, Conn.: 1150, 1160, 1170, 1180, 1190, 1210 kilocycles.

Charles M. Bannerman 518 Boulevard, Shreveport, La.: 940, 950, 960, 970, 980, 990, 1110, 1120, 1130, 1140 kilocycles.

Jack B. Schneider, 17 Center Street, Garwood, N. J.: 540, 550, 560, 570, 580, 590, 600, 610, 620, 660, 670, 680. 690, 700 kilocycles.

J. Kenneth Vetter, 964 Waukegan Road, Deerfield, Ill.: 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490 kilocycles. James J. Hart, 617 Grove Street, Irv-ington, N. J.: 1200, 1380, 1390, 1400, 1410

kilocycles and Central and South American programs.

James E. Good, 33 East 17th Street, Linden, N. J.: 1070, 1080, 1090, 1100, 1310 kilocycles.

Eugene J. Bataille, 78 Franklin Avenue, Maplewood, N. J.: 710, 720, 730, 740, 750, 760, 770, 780, 790, 800 kilocycles.

Robert Musson, 35 Couch Street, South Norwalk, Conn.: 630, 640, 650, 810, 820, 830, 840, 850 kilocycles.

# PRINCIPAL SHORT WAVE STATIONS OF THE WORLD

Central Standard Time, Add One Hour For Eastern Standard Time

0.11			Location	Time
Call	Kilocycles	Meters 46.96	Bound Brook, N. J.	Experimental Broadcasts
W3XL VE9BY	6.386 6.426	46.65	London, Ontario, Canada	Wed. 7:30-8:30 p.m.; Sat. 7-10 p.m.
XDA	11.760	25.50	Mexico City, Mexico	Tests XAM, Noon to 5 p.m.
12RO	11.800	25.40	Rome, Italy	10-11:30 a.m.; 1:30-4:30 p.m.
PCK	18.400	16.29	Kootwijk, Holland	Phones Java about 6 a. m.
GSD	11.750	25.51	Daventry, England	To Oceania 3:30-5:30 a.m.
VE9JR	11.710	25.60	Winnipeg, Manitoba	Tues. 5:30-7:30 p.m.; Fri. to 9
YVQ	11.680	25.67	Maracaibo, Venezuela	Tests with Germany 4-6 p.m.
DGT	11.710	25.60	Koenigswusterhausen, Germany Rio de Janeiro, Brazil	1:30 to 5 p.m. Tests at 5 p.m.
PPK XAM	11.644 11.530	25.75 26.00	Merida, Yucaton, Mexico	7:30 p.m.
CT3AQ	11.174	26.83	Funchel, Maderia	Tues. & Thurs. 4 to 5:30 p.m.
KWV	10.830	27.68	Dixon, California	Phones Hawaii irregularly
ORK	10.340	28.99	Brussels, Belgium	Phones OPM, 1-3, 8-10 a.m.; 2-5 p.m.
DJQ	10.285	29.15	Koenigswusterhausen, Germany	1 to 5 p.m.
DIQ	10.246	29.26	Nauen, Germany	Phones 1:30 to 4 p.m.
PSH	10.212	29.35	Rio de Janeiro, Brazil	Tests W2XBJ Evenings
OPM	10.090	29.70	Loeopoldsville, Africa Hamilton, Bermuda	Phones ORK, 8-10 a. m.; 2-5 p.m. Phones WNB days
VRT-ZFA GSH	10.060 21.470	29.80 13.96	Daventry, England	Daily 1 to 6 p.m.
WKK	21.400	14.01	Lawrenceville, N. J.	7 a.m. to 3 p.m.
PSA	21.069	14.23	Rio de Janeiro, Brazil	7 to 8 a.m.
WKA	21.054	14.24	Lawrenceville, N. J.	7 a.m. to 3 p.m.
LSN	21.020	14.27	Buenos Aires, Argentina	7 a.m. and 3 p.m.
LSY	20.820	14.40	Buenos Aires, Argentina	From morning to 1 p.m.
W9XF	20.500	14.63	Chicago, Illinois Nauen, Germany	3:30-7 p.m.; 8:30 p.m1 a. m. Phones LSG 6-10 a.m. irregularly
LSG LSG	20.028 19.895	14.97 15.07	Buenos Aires, Argentina	9:30 a.m. to 2:30 p.m.
TGW	6.611	45.35	Guatemala City, Guatemala	Tue., Thur. Fri., 9:30 to 11 p.m.
PRADO	6.618	45.31	Riobamba, Equador	Thursday 8 to 10 p.m.
IAC	6.648	45.10	Caltano, Italy	Testing irregularly
DGK	6.888	43.54	Nauen, Germany	Phones WEJ 8 p.m.
KEQ	6.675	44.91	Kahuku, Hawali	Phones California nights
HJ4ABB CM5RY	7.139	42.00 41.03	Manizales, Colombia Matanzas, Cuba	Saturday 9 p.m. to 11 p.m. Saturday 9:45 to 10:30 p.m.
KDK-KKH	7.518	39.89	Kahaku, Hawaii	8 p.m. and 1 a.m.
· HJ3ABF	7.610	39.40	Bogota, Colombia	6 p.m. to 10 p.m.
HBP	7.790	38.49	Geneva, Switzerland	Sunday 4 to 4:45 p.m.
PSK	8.180	36.65	Rio de Janeiro, Brazil	Phones WOK irregularly
HJY	9.928	30.20	Bogota, Colombia	Phones OCI Evenings
LSN	9.895	30,30	Buenos Aires, Argentina	5 p.m. and 5 a.m.
JIAA EAQ	9.862 9.862	30.40	Tokio, Japan Madrid, Spain	4 to 6:45 a.m. 5:30 to 7 p.m.
T14NRH	9.670	31.00	Heredia, Costa Rica	Week days 9 to 10 p.m.
CTIAA	9.592	31.25	Lisbon, Portugal	Tues, & Fri. 4 to 6 p.m.
VK2ME	9.585	31.28	Sydney, Australia	Sunday 12-1 a.m., 4-8 a.m.
GSC	9.585	31.28	Daventry, England	Daily, 1 to 6 p. m.
HBL	9.580	31.30	Geneva, Switzerland	Sunday 4 to 4:45 p.m.
SRI W1XAZ	9.570 9.560	31.33 31.36	Poznan, Poland Springfield, Mass.	Tuesday 5 to 7 a.m. 3 p.m. to 11:30 p.m.
VE9DR	9.555	31.37	Drummondville, Quebec	4 to 5 p.m.
DJA	9.552	31.38	Zeesen, Germany	1 to 5:30 p.m.
W2XAF	9.530	31.46	Schenectady, N. Y.	4:15 to 10 p.m.
OXY	9.520	31.49	Skamleback, Denmark	1 to 5:30 p.m.
GSB	9.510	31.53	Daventry, England	To Canada, 7 to 9 p.m.
VK3ME	9.503	31.55	Melbourne, Australia	Wed. 4-5:30 a.m.; Sat. 4-6 a.m.
PRBA PLW	9.492 9.480	31.58	Rio de Janeiro, Brazil Bandoeng, Java	Broadcasts 5 to 5:15 p.m. Phones Australia 2 to 7 a. m.
CNR	9.276	32.32	Rabat, Morocco	Sunday 2 to 5 p.m.
KEJ	9.012	33.27	Bolinas, California	Testing irregularly
TGX	8.950	33.50	Guatemala City, Guatemala	Saturday 9 to 11 p.m.
VE9BY	8.645	34.68	London, Ontario, Canada	Monday 2 to 3 p.m.
ICEJ	8.566	35.00	"Steamship Rex"	
GSE	11.865	25.40	Daventry, England	Phones to India 8:30 to 10.30 a. m.
W8XK	11.872	25.25	Pittsburgh, Pa.	Relays KDKA 3 to 9 p.m. 10:30 a.m. to 1:30 p.m.
FYA	11.898	25.20	Paris, France	Av. 00 a.m. to 1:80 p.m.

	Williamoles	Meters	Location	Time
Call	Kilocycles	Meters	Location	
FZS	12.000	24.98	Saigon, Indo-China	8 to 9 a.m.
DAN	12,490	23.81	Norden, Germany	Talks to Ships
GBC	12.780	23.46	Rugby, England	Phones to Ships irregularly
CNR	12.820	23.38	Rabat, Morocco	Sunday 6:30 to 8 a.m.
JIAA	13.074	22.93	Tokio, Japan	Phones experimental
CGA	13.296	22.55	Drummondville, Que, Can.	8 a.m. to 1 p.m.
GBB	13.500	22.09	Rugby, England	Talks in Daytime to Canada 6 a.m. to 2:30 p.m.
SUZ	13.816 14.450	21.70 20.75	Cairo, Egypt Rugby, England	5 a.m. to 5 p.m.
GBW	14.550	20.60	Geneva, Switzerland	a and to a principal and the second
HBJ RXC	14.550	20.60	Panama City	Afternoons
PSS	14.682	20.42	Rio de Janeiro, Brazil	4 to 5 p.m.
нјв	14.760	20.32	Bogota, Colombia	10 a.m. to 4 p.m.
WMB	14.796	20.27	Miami, Florida	12 to 4 p.m.
T14NRH	15.066	19.90	Heredia, Costa Rica	Sat. & Sun. 10 to 11 a.m.
HVJ	15.190	19.83	Vatican City	4 to 4:15 a.m.
GSF	15.140	19.81	Daventry, England	
DJB	15.190	19.73	Zeesen, Germany	7 to 11 a.m.
W8XX	15,204	19.72	Pittsburgh, Pa.	Relays KDKA, 8 a.m. to 3 p.m.
FYA	15.234 15.320	19.68	Paris, France Schenectady, N. Y.	7 to 11 a.m. Daily 12 to 2 p.m.
W2XAD	15,410	19.46	Dixon, California	Phones Hawaii—1 to 6 p.m.
EAQ	19,684	15.23	Madrid, Spain	Phones Saturday 12 to 2 p.m.
CEC	19,678	15.24	Santiago, Chile	10 a.m. to 3 p.m.
FTM	19.282	15.55	St. Assise, France	9 a.m. to 1 p.m.
PPU	19.270	15.57	Rio de Janeiro, Brazil	9:30 a.m. and 2:30 p.m.
LSR	18.958	15.82	Buenos Aires, Argentina	10 a.m. and 3 p.m.
PLE	18.820	15.93	Bandoeng, Java	Tues., Fri., 4:40 to 9:40 a.m.
OCI	18.670	16.06	Lima, Peru	1 p.m.
HJV	18.444	16.25 19.02	Bogota, Colombia	10 a.m. and 3 p.m. Experimental Broadcasts
J1AA GBX	15.760 16.150	18.56	Tokio, Japan Rugby, England	3 p.m. and 10 p.m.
GBC	17.080	17.55	Rugby, England	Talks with ships
GSG	17.770	16.90	Daventry, England	Talks to India-8:30 to 10:30 a.m.
W3XAL	17.772	16.87	Bound Brook, N. J.	7 a.m. to 3 p.m.
PCV	17.830	16.82	Kootwijk, Holland	5 to 8 a.m.
PMC	18.170	16.50	Bandoeng, Java	2:30 to 8:30 a.m.
YVQ	18.296	16.39	Maracaibo, Venezuela	9 a.m.
VE9CI	2.735	109.62	London, Ontario, Canada	Daily 8 to 10 p.m.
нслв	3.998 4.273	75.00 70.65	Quito, Ecuador Kharbaravsk, U. S. S. R.	6:30 to 8:45 a.m. 2 to 8 a.m.
RV15 ICEJ	4.283	70.00	"S. S. Rex"	2 to 8 a.m.
VE9BY	4.792	62.56	London, Ontario Canada	Saturday 11 to 12 p.m.
GBC	4.975	60.27	Rugby, England	Phones to ships
VRT	5.045	59.42	Hamilton, Bermuda	Phones WNB-GMBJ nights
DIQ	5.144	58.33	Nauen, Germany	7 to 8:30 a.m.
XAM	5.766	52.00	Merida, Yucaton, Mexico	Tests XDA, 9 a.m. & 8 p.m.
XDA	5.879	51.00	Mexico City, Mexico	Tests XAM, 9 a.m. & 8 p.m.
нко	5.925	50.60	Medellin, Colombia	Tues., Thurs., Sat7 to 9 p.m.
HVJ HKD	5.968	50.26	Vatican City Barranquilla, Colombia	1-1:15 p.m.; Sun. 4-4:30 a.m.
VE9DR	5.996 6.005	49.93	Drummondville, Que, Can.	7 to 9 p.m.
W4XB	6.036	49.67	Miami, Florida	6 to 11 p.m. 4 to 10 p.m.
VE9AD	6.335	47.35	Drummondville, Que., Canada	5 to 7 p.m.
W8XK	6.140	48.83	Pittsburgh, Pa.	Relays KDKA, 3 to 10 p.m.
GSA	6.050	49.56	Daventry, England	Phones to Canada 7-9 p.m.
CMCI	6.057	49.50	Havana, Cuba	8 to 10 p.m.
VQ7L0	6.060	49.48	Nairobi, Kenya	10 a.m. to 2:30 p.m.
W8XAL	6.060	49.48	Cincinnati, Ohio	Relays WLW, 5-9:30 a.m.
YVIRC	6.119	49.00	Caracas, Venezuela	Relays 960 kilo-9:30-12 noon
W3XAL	6.096	49.17	Bound Brook, N. J.	Saturday 3:30 p.m. to midnight
W9XF VE9CS	6.095	49.18	Chicago, Illinois	3:30-7 p.m.; 8.30 to 1 a.m.
W9XAA	6.070	49.39	Vancouver, B. C. Chicago, Illinois	Fri. 11:30 a.m. to 12:45 p.m.
VE9BJ	6.076	49.34	St. John, N. B.	Sunday 10 a.m. to 8 p.m. 4 and 10 p.m.
VE9GW	6.092	49.22	Bowmanville, Ont.	4 to 10 p.m.

# **GROUNDS**

By Howard Beidleman

This is an opportune time to thoroughly inspect our ground connections. A loose ground wire is the cause of many a noise similar to static and is worse than no ground at all.

The good old cold water pipe seems to be the most preferred place to attach the ground wire although much experimentation has been done with other types. Dry earth is not a very good conductor of electricity and a good stunt which has been done by many of our members is to drive a pipe into the ground and to keep the pipe full of water into which has been dissolved common, coarse salt. Salt and water increase the conductivity of the ground and make it more effective. If a well is handy, tie several brass or copper plates on the end of the wire and drop them into it.

Broadcast engineers at one time used a counterpoise in connection with their antenna when it was used as part of their radiating systems. This is nothing more than a few wires close together, stretched out under the antenna wire and elevated about a foot from the ground. The ground connection is not used then. This principle can of course, be applied to a receiving set with good results if the ground space is available for erecting it.

Then there is the underground "aerial" little used to-day. It is not very efficient and requires some time and trouble to install it. It consists of a heavily insulated wire which is buried a few inches deep in a trough in the ground. The length is not critical but fifty feet seems to be enough. The leadin should be as near the house as possible making the leadin short and direct. A connection to it is made in the usual way. This type of antenna is very directional and points towards the signals that will be received the strongest. Static is not present with such an antenna but signal strength is also reduced.

#### WHEN NOT ESSENTIAL

Occasionally, I have seen sets that work better without a ground than with

one. This is a condition of the receiver in which it becomes slightly unstable without a ground and gives greater amplification. If this is true of your receiver, then don't worry about a ground system.

Not long ago someone offered the idea that some harm would come to the receiver if no ground were used at all but this is not true. There may however, some harm come to the receiver if the ground wire is connected to the antenna post. This is not true of all sets but on some where the chassis is connected to the AC line through a small condenser enough current may pass through to burn out the antenna coil. If you are using such an arrangement, that is, picking up the signal on the ground alone without using an aerial, then I would suggest that you flick the wire on the antenna post several times to see if there is any spark between the two. If not, it should be O.K., but if there is an appreciable spark reverse the AC plug in its socket and repeat the procedure. If it still sparks don't use it. It is however, quite safe when connected to the ground post.

I have had numerous requests for diagrams and constructional details for building short wave receivers. I would suggest the American Radio Relay League, 38 La Salle Street, West Hartford, Conn., which publishes a small booklet on "How To Become An Amateur." It contains diagrams of short wave receivers and all the information necessary to build them. The cost is only a quarter and it is well worth it.

#### **NNRCers**

The following have been admitted to membership in The Newark News Radio Club: Mrs. Mabel Applegate and Leo Herz, Chicago; Mrs. Martha Foerster, Indianapolis; James D. Randolph, Warren Plains, N. C.; Lloyd Westmoreland, Regina, Sask.; Erwin Beitman, Elyria, O.; Francis Harris, Worcester, Mass.; Walter C. Birch, Lynn, Mass; William L. Bauer, Baltimore; Charles Lindner, West Reading, Pa.; Gustave Johnson, Great Kills, Staten Island; Leon Hochman nad Charles McGovern, Brooklyn; Philip Rebuelta, Sam Kiamie and W. R. Ritayik, New York City, and in New Jersey, George C. Valentine, Dover; Willard K. Jennings, Rahway; William E. Mays, Linden; Mr. and Mrs. V. C. Hurrell, Chatham Township, and Mr. and Mrs. Walter Weber, H. E. Slickerman and Robert Godfrey of Newark.

# DX CERTIFICATES AND RULES GOVERNING THEIR ISSUANCE

Effective September 1, 1934

In the early days of THE NEWARK NEWS RADIO CLUB when the membership was confined to the City of Newark and vicinity, it was a simple matter to make rules that were equal and just for the issuance of certificates to members; now, however, when the membership is over 2,000 and scattered all over North America, England, Hawaii and New Zealand, we find these rules obsolete and it becomes necessary to formulate a new set that will be more equitable under present conditions. With this idea in view, THE NEWARK NEWS RADIO CLUB has adopted the following rules and procedure for issuing DX certificates.

Any member desiring a DX certificate will apply either in person or in writing to the Chairman or Vice-Chairman of the DX Qualifications Committee for an AP-PLICATION FOR CERTIFICATE. This application will be furnished by the Committee, which, at the same time, will mark thereon the number of verified distant stations required for the certificate in question, together with the DISTANCE RATING.

The member will fill out and return the APPLICATION FOR CERTIFICATE with the required fee and return postage (when necessary). When APPLICATION FOR CERTIFICATE, properly filled out, is received by the Committee it will be placed on file and the proper DX certificate issued to the member.

NO VERIFICATIONS ARE TO BE SENT TO THE COMMITTEE. THIS IS TO BE STRICTLY AN HONOR AGREEMENT BETWEEN THE CLUB AND MEMBERS.

Any question as to the authenticity of a member's verifications must be submitted to the Director of the district in which the member is located.

# GENERAL REQUIREMENTS

RULE 1. JUNIOR DX CERTIFI-CATES: The requirements for this certificate are that a member must have logged 100 or more station calls none of which need be verified.

RULE 2. MASTER DX CERTIFI-CATES: The requirements for this certificate are that a member must have logged 200 or more station calls. THE NUMBER OF VERIFIED DISTANT STATIONS will vary, depending upon the geographical location of members. The DX Qualifications Committee will inform them of their individual DISTANCE RATINGS and how many verified station calls are required to qualify for this certificate.

Verifications may consist of cards, letters, Ekko stamps or combinations of same. Verifications from DELETED stations count the same as those from

active stations.

RULE 3. PAST MASTER CERTIFICATE: The requirements for this certificate are that a member must have logged 300 or more station calls. See also paragraph 2 of Rule 2. 1

RULE 4. ACE CERTIFICATE: The requirements for this certificate are that a member must have logged 400 or more station calls. See also paragraph 2 of Rule 2.

RULE 5. SUPER ACE CERTIFICATE: The requirements for this certicate are that a member must have LOGGED AND VERIFIED 500 or more station calls. See also paragraph 2 of Rule 2.

RULE 6. HONOR CERTIFICATE: The requirements for this certificate are that a member must have LOGGED AND VERIFIED 800 or more station calls. See also paragraph 2 of Rule 2.

An applicant for this certificate must also possess all of the lower grades of certificates from JUNIOR to and including the SUPER ACE.

#### FEES FOR CERTIFICATES

The fees for all certificates from JUN-IOR to and including the HONOR certificate will be fifty cents each.

# FURTHER EXPLANATION OF RULES

For those members who are located in the AST, EST, (east of Philadelphia), and PST zones the DISTANCE RAT-ING and NUMBER OF VERIFIED STATIONS required for the various certificates are as follows:

JUNIOR: A log of 100 or more station calls none of which need be verified.

MASTER: A log of 200 or more station calls one of which must be verified and from a distance of 2,000 miles or more.

PAST MASTER: A log of 300 or more station calls five of which must be verified and from a distance of 2,000 miles or more.

ACE: A log of 400 or more station calls ten of which must be verified and from a distance of 2,000 miles or more.

SUPER ACE: A log of 500 or more station calls all of which must be verified, including 50 from a distance of 2,000 miles or more.

HONOR: A log of 800 or more station calls all of which must be verified, including 100 that are from a distance of 2.000 miles or more.

For members located in the EST zone, west of Philadelphia, those in the CST and MST zones the DISTANCE RATING and NUMBER OF VERIFIED DISTANT STATIONS required will vary according to the geographical location.

For example—a member may be roughly 1,500 miles from the east and west coasts. In this case he or she may count each 1,500 mile verification as three-quarters of a 2,000 miler or, in other words, twenty 1,500 mile verifications will count as fifteen 2,000 mile confirmations.

Special rules will be made to cover the cases of members in Europe, Hawaii, New Zealand, Australia, and other foreign countries.

In all instances DISTANCE will be measured upon a Rand, McNally map, especially made for THE NEWARK

#### NEWS RADIO CLUB.

It is to be understood that all decisions on applications and ratings are final.

The Directors of the Club are hereby authorized to examine and approve or disapprove members' verifications.

The status of certificates, previously issued, will in no way be changed by these new and more general rules.

#### DXING IN CANADA

By James Woonton, London, Ontario No doubt there are many in the United States and other countries who would like to know just how we here in Canada find DXing conditions, so with the permission of our president I will endeavor to briefly present our problems.

It is possible that many believe Canadian DXers have an advantage over our good friends in the United States because we are not so close to the more powerful stations. While that may be true my observations lead me to state it is my opinion we are all on about even terms when it comes to dialing for distant stations. We, too, have our share of electrical interference from power transformers, motors and other devices. Canada also has its share of interference on the frequencies set aside for the low powered stations.

# LICENSE REQUIRED

The Canadian Government requires that all radio owners must have a license to operate them. The annual fee is \$2. This fee is used to defray the cost of better programs broadcast by the Canadian Radio Commission's own stations comprising the Canadian network. The Commission owns and operates many stations throughout Canada. They may be identified by the first three letters of their calls-CRC-and the fourth letter usually designates the city or town wherein the station is located. For instance, CRCT is a Canadian Radio Commission station and the fourth letter denotes that it is located in the City of Toronto.

The Canadian Radio Commission has inspectors located throughout the Dominion whose duties include checking up on interference and licenses in addition to checking frequencies of the stations. When the inspectors definitely locate the source of electrical interference every effort is directed towards its elimination through the installation of filters or other devices.

CRC inspectors are equipped with the necessary apparatus for locating and determining the source and cause of electrical interference but of course, it is difficult to stop all such noise. Just recently I have been bothered with electrical interference and the inspector of our district has on several occasions tried to trace its origin. Although he has so far been unsuccessful I am grateful for the assistance I have been given and I do think that the \$2 I pay for my annual license for my receiver is money well spent.

Many leading radio manufacturers of the United States including Philco, Sparton, Majestic, Westinghouse, General Electric, Crosley, Stromberg-Carlson and a few others have branch factories in Canada so you see we are not limited to a few makes in the selection of receivers. I use a Sparton, model 16 AW, twelve tube set and find it to be good for both BC and SW reception. A Canadian manufactured receiver, the Marconi, is also very good and is used by many with success.

In the final analysis, DXing in Canada is not so different from that in the United States as there are locations where it is exceptionally good and those where a good sized log is compiled only through perseverance and the ability to "take it." Other factors are of course a good receiver, antenna and ground system.

XEFI, Chihuahua, Chih., Mexico, announce a series of special DX programs to be broadcast from 3 to 3.30 or 4 A.M., EST, on the following dates: November 15, 29; December 6, 20; January 5, 17, 31; February 7, 21, and March 6. The one scheduled for January 5 will be dedicated to the NNRC. XEFI's initial broadcast of this series, October 18, was presented in the club's honor. Announcements will be in Spanish and English and in order to procure a verification of reception it will be necessary to enclose a postal coupon. Postage stamps are unacceptable.

KGFF, Shawnee, Okla., will transmit special DX programs November 29 from 3 to 5 A.M., December 20, 3 to 5.30 A.M., and January 1 from 3 to 5 A.M. Time given is Eastern Standard. The November 29 broadcast will be dedicated to The Newark News Radio Club. All reports will be checked with the station's log and correct ones will be confirmed.

Writing to Chairman Louis Hahn of our courtesy programs committee, Richard L. Evans, production manager of KSL, Salt Lake City, says: "We are at the present time in the process of moving into new studios and are very much unsettled. However, when things are in shape we shall be occupying what will perhaps be the most modern and commodious studios west of Chicago and in connection with our formal opening it may be that the management would welcome an opportunity to dedicate an early morning program to The Newark News Radio Club members and ask them to help us celebrate."

#### NNRC COURTESY PROGRAMS

# (Time is Eastern Standard)

November 1:

WSOC, 1210 kcs., Charlotte, N. C., 2 to 2:30 A. M. WCBS, 1210 kes., Springfield, Ill., 3:40 to 4

A. M. WKAQ, 1240 kcs., San Juan, P. R., 3:10 to.

3:30 A. M. KFIZ, 1420 kes., Fond du Lac, Wis., 3:50 to

4:10 A. M. WGCM, 1210 kes., Gulfport, Miss., 2:50 to 3:10

A. M. WGES, 1360 kcs., Chicago, 1 to 2 A. M. KMAC, 1370 kcs., San Antonio, Tex., 3:50 to 4:10 A. M.

WIBM, 1370 kes., Jackson, Mich., 5:30 to 5:50 A. M.

# November 2:

WCRW, 1210 kes., Chicago, 5:30 to 5:50 A. M. KGCU, 1240 kes., Mandan, N. D., 4 to 4:20

WALR, 1210 kcs., Zanesville, O., 3:40 to 4

WJW, 1210 kcs., Akron, O., 3 to 3:30 A. M. KOTN, 1500 kcs., Pine Bluff, Ark., 3:10 to 3:30 A. M.

KFJZ, 1370 kcs., Fort Worth, Tex., 4:50 to 5:10 A. M. WTAQ, 1330 kes., Eau Clair, Wis., 5:40 to 6 A. M.

#### November 3:

WSUI, 880 kcs., Iowa City, Ia., 5 to 6 A. M. WSUI, 880 kcs., Wheeling, W. Va., 11:15 P. M. to 2 A. M., November 4. WGES, 1360 kcs., Chicago, 1 to 2 A. M.

LR5, 830 kcs., Buenos Aires, Argentina,, 2:05 to 3:05 A. M.

CJGX, 630 kcs., Yorkton, Sask., 3 to 3:30 M.

KGER, 1360 kcs., Long Beach, Cal., 2 to 8 A. M.

XEMO, 865 kes., Tijuana, Mexico, 3 to 4 A. M.

WOI, 640 kcs., Ames, Ia., 3:30 to 4:15 A. M.

November 5:

WTEL, 1310 kcs., Philadelphia, 3:10 to 3:30 A. M.

WAAT, 940 kcs., Jersey City, N. J., 4:50 to 5:10 A. M. KUJ, 1370 kcs., Walla Walla, Wash., 3:45 to

4 and 5:30 to 5:50 A. M.

#### November 6:

KGAR, 1370 kcs., Tucson, Ariz., 5:40 to \$ A. M.

WAGF, 1390 kcs., Dothan, Ala., 3:50 to 4:10 A. M.

#### November 7:

WCSH, 940 kcs., Portland, Me., 3 to 4 A. M. WCSL, 1250 kcs., Northfield, Minn., 4:30 to 4:50 A. M.

WOOD-WASH, 1290 ks., Grand Rapids, Mich., 6 to 6:30 A. M. WDZ, 1070 kcs., Tuscola, Ill., 5 to 5:20 A. M.

WROK, 1410 kcs., Rockford, Ill., 3:50 to 4:10

WSVS, 1370 kcs., Buffalo, 3:30 to 3:50 A. M. WFBG, 1310 kcs., Altoona, Pa., 2:40 to 3 A. M.

#### November 8:

WGES, 1360 kes., Chicago, 1 to 2 A. M.

November 9:

WJTL, 1370 kcs., Atlanta, Ga., 1 to 4 A. M.

November 10: WGES, 1360 kcs., Chicago, 1 to 2 A. M.

# November 11: VOGY, 840 kcs., St. Johns, Newfoundland, 1 to 5 A. M. CKBI, 1210 kcs., Prince Albert, Sask., 4 to

4:30 A. M.

CKCH, 1210 kcs., Hull, Quebec, 4:30 to 5 A. M.

KFJZ, 1370 kcs., Fort Worth, Tex., 2 to \$

A. M. KGKL, 1370 kcs., San Angelo, Tex., 3 to 4

WRBL, 1200 kcs., Columbus, Ga., 4 to 6 A. M.

KFKA, 880 kcs., Greeley, Colo, beginning at 2:01 A. M.

November 13:

CMBD, 1320 kcs., Havana, 2 to 3 A. M.

November 15:

WGES, 1360 kcs., Chicago, 1 to 2 A. M. KMAC, 1370 kcs., San Antonio, Tex., 2 to 4 A. M.

November 17:

WTJS, 1310 kcs., Jackson, Tenn., 4 to 6 A. M. WGES, 1360 kcs., Chicago, 1 to 3 A. M. WHAS, 830 kcs., Louisville, Ky., 10:30 to 11 P. M.

November 18: KQV, 1380 kcs., Pittsburgh, 1 to 3 A. M. WMAZ, 1180 kcs., Macon, Ga., 4 to 5 A. M. CJLS, 1310 kcs., Yarmouth, N. S., 3 to 3:45 M.

KFDY, 570 kcs., Brookings, S. D., 2 to 3 A. M. WTAW, 1120 kcs., College Station, Tex., 3 to 3:45 A. M.

November 21:

WOOD-WASH, 1290 kes., Grand Rapids, Mich., 6 to 6:30 A. M.

November 22: WGES, 1360 kcs., Chicago, 1 to 2 A. M.

November 24:

KJBS, 1070 kcs., San Francisco, 4 to 5 A. M.

November 25:

TGW, 565 kcs., Guatemala City, Gua., 1 to 5 A. M. LS-2, 1190 kcs., Buenos Aires, Argentina, 2:30

to 4 A. M. VOGY, 840 kcs., St. Johns' Nfld., 1 to 5 A. M.

CKGB, 1420 kes., Timmins, Ont., 2 to 3 A. M. CJKL, 1310 kcs, Kirkland Lake, Ont., 3 to 4 A. M.

CFCH, 930 kcs., North Bay, Ont., 4 to 5 A. M.

November 27:

KPOF, 880 kcs., Denver, Col., 4 to 5 A. M.

November 28:

WSUI, 880 kcs., Iowa City, Ia., 1:30 to 3 A. M. WFBG, 1310 kcs., Altoona, Pa., 4:30 to 4:45 A. M.

November 29:

FQN, 609 kcs., Isle of St. Pierre, 3 to 4 A. M. KGFF, 1420 kcs., Shawnee, Okla., 2 to 4 A. M. WGES, 1360 kcs., Chicago, 1 to 2 A. M. KGRS, 1410 kcs., Amarillo, Tex., 2 to 3 A. M.

# WHAT'S ON THE AIR (Continued from Page 9)

The Shadow, popular radio mystery drama of two years ago, has returned to the WABC chain and can be heard every Monday and Wednesday evening from 6.30 to 7, EST. Frank Readick, the original "Shadow" is again the omniscient being who knows all about things before they happen. Orchestral music is used

to indicate changes in time and scene.

# LOOKING AHEAD IN RADIO

(Continued from Page 7)

broadcasting channels. Three other such stations are now under construction, one in Connecticut, one in Missouri and one in California. All will have studios, amplifiers and transmitters capable of handling at least eight and one-half octaves of the musical scale, and each is authorized to use a radio channel that is 20 kilocycles wide. That means that those of you who have receiving sets which are competent to reproduce the wide range of frequencies running up to 10,000 or even 15,000 cycles should be able to notice a definite improvement in the realism of the programs that you receive from a high-fidelity station such as ours. The additional two or three octaves of sound that we are transmitting to you are helpful not only in bringing about the highest and the lowest tones, but also contribute a great deal to the naturalness with which all sounds may be reproduced. Further, the fact that a twenty kilocycle broadcasting channel is available to us makes it possible for you to receive the wide range of sound frequencies without as much interference as would be experienced if the neighboring channels were only ten kilocycles away.

The Federal Communications Commission is relying upon us for two things. First, we are determining whether or not it is feasible to render a useful broadcasting service on this new broadcasting wave of 1550 kilocycles. Second, we are finding out whether or not broadcast listeners desire their programs to be transmitted to them with the realism that is made possible by the extended frequency range to which I have referred. In our experimental transmissions of the past two months we have been greatly assisted by the comments of a very considerable number of listeners who have taken the trouble to write to us. You may be interested to have me tell you that so far, the overwhelming vote is that the 1550 kilocycle wave is useful for broadcasting and that the increased nat-uralness and realism of high-fidelity sound is much appreciated.

We have before us an opportunity to make broadcasting better and more effective than it ever has been; at the station we are trying to do our part by using the best possible apparatus and operating methods; at the receiving end, you can help by telling us your impressions of how well we have succeeded.

# APPLICATION FOR MEMBERSHIP

I am interested in receiving membership information from The Newark News Radio Club and a copy of your special program listings issued weekly: Street and No. City and State (Please Print) SUBSCRIPTION BLANK Newark News Radio Club 215 Market Street Newark, N. I. Enclosed please find \$......for which send me postpaid my choice of your offers as checked below: One trial copy of THE DIALIST 10c Trial subscription, next five issues 50c \$1.00 One year subscription or ten copies Above rates apply to anywhere in the northern hemisphere. Above rates apply to members of The Newark News Radio Club in all sections of the world. FOREIGN RATES — NON-MEMBERS One trial copy of THE DIALIST 20c Trial subscription, next five issues 75c One year subscription or ten copies \$1.25 Name ..... Street and No. City, State and Country

39

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you absolute realism—assures you of lifelike, crystal-clear tone—unlike anything
you have ever experienced before. You will
hear one more octave—overtones—that
cannot be brought in with ordinary radios. Now, hear every
ins'r ument, every
ins'r ument, every
inflection of speech. 2400 meters (33 Megacycles to 125 KC)-enabling you to easily and Dial calibrated in Kilocycles, Megacycles and Meters;
 Call letters of American Broadcast Stationa printed on dial and illuminated;
 Slow-Fast, Smooth-Acting Tuning; Peruvian Praises Foreign Reception successfully tune in even lowpowered foreign stations up to 12,000 miles away with crystalclear, loud-speaker reception. Station Group Locator; Simplified Tuning Guide Lights; Automatic Select-O-Band Indicator; All 5 Wave Bands enable you to enjoy today's finest High Fidelity Illuminated Pointer Indicator;
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