THE MIDSUMMER 1935







Verifications in the S. W. Field Converting Old B. C. Sets to S. W. How and When to Tune the Europeans Analyzing the Howard "Grand" Receiver

N. S. E.

Good News for the Hard of Hearing

The Perfect Phone Adapter, which can be furnished for any make and model of receiver, automatically transfers the signals from speaker to phones when phone-plug is inserted, silencing the speaker.

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Keeps every program constantly at pre-determined volume. Operates efficiently on broadcast band and short wave stations over the whole range between 13 and 550 meters.

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June 1, 1935

FRED CLAYTON BUTLER Editor and Publisher

B. FRANCIS DASHIELL Technical Editor

ELEVENTH YEAR

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PAGE TAYLOR Short Wave Editor

NUMBER 90

PAGE

VERIFICATIONS in the Short Wave Field

HE problem of verifications is a perplexing one to all DXers except ones who prefer not to collect them. New collectors usually have trouble getting them while the seasoned collector has difficulty in knowing whether his verification really verifies when he gets it. In these paragraphs we present a few original thoughts on this much-discussed topic as well as outlining several well-established rules which should be followed by all confirmation-seekers.

Listeners desire and prize their confirmations while broadcasters desire and value reports. Therefore when one writes for a verification he should include enough information of value in his report to compensate the station for the trouble it takes in answering. Accurate reports are reflected in better transmissions, so, in the end it is really the reporting listener who profits from his reports, his profits being in the form of better reception.

"First Catch the Rabbit"

To obtain a verification one must first hear the station; a few so-called DXers write for verifications as soon as they learn of a new station without bothering to tune for it. This sort of chiselling has caused several stations to adopt the practice of ignoring all reports. After tuning in a station it should be positively Sometimes this is a difidentified. ficult thing to do, but it is much better to refrain from writing altogether than to send a good report to the wrong station.

At least a half hour of the program should be logged, and this log should be as accurate, truthful and

• • • By PAGE TAYLOR

complete as possible. If the station is a North or South American it is usually more convenient for the station directors if all time is converted into Eastern Standard Time, of if the station is on any other Continent, Greenwich Mean Time is the best standard time to use. Thoughtful correspondents, however, use a RADEX Time Converter to change their own time into the local standard time at the station.

Detail Your Report The names of all musical numbers



Presenting "Margo," charm and beauty adviser on the "Lilac Time with the Night Singer" program, heard over the CBS each Monday from 10:30 to 11:00 p.m., EDST. Before entering radio "Margo," in private life Miss Marjorie Anderson, gained wide recognution as a creative parfumeur (mixer of scents to you). She is featured on the "Lilac Time" broadcast along with the anonymous "Night Singer" and Baron Sven von Hallberg and his Orchestra.

recognized should be given and unfamiliar musical items ean be described, as a "fox trot," "tenor solo," "Saxophone and marimbas," Most of the musical numbers etc. heard from South American stations are unfamiliar and their tempo is indescribable, but if one pays close attention to the announcer he can usually catch the name of the dance tune to follow. A list follows the names of various South American dances: listen for these words when listening to announcements: bambuco, bolero, cancion (song), criolla, danzon, fandango fox (fox trot), habanera, joropo, jota, marcha (march), merangue, pasillo, paso-doble, rhumba, son, tango, and valse (waltz).

Whenever possible, the names of advertisers sponsoring programs should be given; regardless of the language spoken it is oftentimes easy to catch the trade names of various products.

The Signal Data

That the report may be of some value to the station it is necessary that the writer mention, truthfully, how well the station is heard, describing volume by the R Code, quality by the QSA Code, and hazards such as interference, static or fading, by the S, X and N symbols. A list of these symbols, along with other information of value to shortwave listeners, is given in the April issue of RADEX, No. 88.

One should always mention the name and type of receiver he uses, and describe, briefly, his aerials. Weather conditions at the receiver should be accurately described.

Always Prepay Reply

Finally, enclose an INTERNA-TIONAL REPLY COUPON, and, politely request a verification. International Reply Coupons cost nine cents each and can be purchased at any post office. If your own post office does not have them, they can get them.

When all the above requirements have been met and the letter sent, be patient. Give the station more than sufficient time to reply before writing again. Never under any circumstances write a snappy "follow-up" letter. It makes one feel terribly foolish to receive a sincere and attractive QSL from a broadcaster just a day or so after posting a sassy letter.

Some "Don'ts"

Following are some comments which should be axiomatic:

Do not write on postal cards. These are not intended for use in polite correspondence nor do they require an answer.

Do not send stamps or pennies. They are no good outside your own country.

Do not send self-addressed envelopes. This will require first-class postage if it is used, while most stations have post cards at a cheaper mailing rate. It is also true that foreign letter-heads or cards are of a different size and shape than ours and cannot be fitted into our standard size envelopes.

Take What You Get

"Verification" and "confirmation" are long words so most fans prefer using the letters QSL, which are defined by international radio code as meaning, "I give you acknowledgement of receipt." Such an acknowledgement from a radio station means, broadly, that the person receiving the QSL has heard the station. However, a great many QSL collectors have lately become quite highly technical about the wording of their verifications and refuse to consider a veri as a veri unless it specifically states, in so many words, "You heard our station!" Of course, it is strictly a matter of opinion whether one wishes to consider a QSL as a confirmation of reception or simply a "thank you" for his report, but we believe fans should be delighted to get any kind of an acknowledgement from a station without being particular how the station words that acknowledgement. Stations are not obligated to answer at all.

The writer believes a good verification should state the fact that the listener heard the station, giving the date heard and other facts, but, we see no good reason why any acknowledgement should be discarded from a QSL collection, nor why their entry should be refused in any competition.

The Ideal Verification

The best verifications we have ever seen are those sent by the National Broadcasting Co; the following is quoted from one in our collection: "In acknowledgement of your communication dated July 11th, we are very pleased to confirm your report of the shortwave transmission of Henry Busse's Castle Farm Orchestra on July 10, 1931, between 12:30 and 1 am, EDST, through W3XL of Bound Brook, N, J."

There can be no doubt about verifications from YV1BC (now YV2RC) of Caracas. Venezuela, which read like this: "Date of your report, Nov. 4, '32. You Have Heard Us! We are pleased to certify that your report about reception of our transmission is correct . . ."

On the Other Hand

We can fill this entire magazine with samples of good verifications. and, we can fill the magazine again with examples of verifications which do not specifically say "reception verified," but which should he equally acceptable as verifications. Thousands of persons claim to have verifications from WLW and W8XAL, still there are those who insist a veri must specifically verify. In addition to giving their operating schedule, QSL cards from W8XAL state, "Acknowledging report of shortwave station W8XAL of



the Crosley Radio Corporation, Cincinnati, Ohio." We believe that is a good verification and appreciate the fact WLW was good enough to send it to us.

W2XE used to send a brochure entitled, "A Radio Map from the CBS to thank you for writing . . ." No mention is made of any reception, but still, this MUST be considered a verification because it is the standard way in which this station acknowledged reports. If this is not a veri, no one in the world has the old W2XE transmitter (1930-31) verified.

Some QSL's verify by inference, hence XEW: "We appreciate and thank you for your report dated Aug. 25/31 and hope our concerts continue to be interesting to you." Here no direct mention is made of reception but the mention of the concerts infers that the possessor of the card must have heard at least one concert.

Those G Stations

There has been more discontent over the Daventry verifications than any others. Daventry merely sends thank you cards on which they state they regret they cannot give specific verifications. It is impossible for the British Broadcasting Corporation, to check reports, for many reasons. First, most of their programs are re-transmitted throughout widely the British Empire. Second, each program is transmitted simultaneously over two Daventry trans-Third, the programs are mitters. printed many weeks in advance in World-Radio, a widely distributed magazine, and in a great many newspapers and magazines throughout the world. Fourth, each program is repeated several times. A recording is made of the original program and the recordings are played on succeeding transmissions. Still, the BBC is good enough to answer letters with an attractive little "thank you" card and for this courtesy they have the commendation of this and most other magazines. The Daventry stations are easily heard; no one needs a QSL from them to prove their reception. A shortwave fan needs only to turn on the radio and tune in Daventry to prove to his doubting friends it can be done. And that, by the way, is the best verification after all. If this magazine were to conduct a short-wave contest we would automatically give every entrant credit for six QSL's from Daventry (GSA, B, C, D, E and F'); it would only be necessary that the entrant prove he has a shortwave receiver.

Each Station Has Its Form

Every station has its own method of verifying and any standard communication from a station should be considered as a verification. VE9GW of Bowmanville, Ontario, has a QSL card on which no mention of a correct report is given, but, these cards are rubber-stamped with the statement, "Reception Verified." Hence, a QSL from VE9GW lacking the rubber stamp would not be a verification.

We believe, along with many sta-

tion managers, that any kind of a communication from a radio station can be considered a positive verification unless the communication states or infers the station was NOT heard. Along with our letters we have a few which fail to confirm reception. One of these reads, in part, "We are afraid that the station you listened in might not be our station XGO." Another reads, "In reply, I wish to inform you that HS1PJ has been closed down for broadcasting service some time ago and we broadcast now from HSP2, which is now undergoing a series of tests on Mondays. As June 13th happened to be a Sunday, it was not likely therefore that you heard this station." Still another letter said simply. "We wish to inform you that KA1XR is no longer on the air."

Our answer to the question, "When is a Veri a Veri?" is, "A Veri is a Veri unless it positively or inferentially states or suggests the owner of the communication did not hear the station."

Editor's Note: It will be noted that Mr. Taylor takes the opposite view from the Editor in regard to counting verifications "which do not verify." Thus our readers have both sides of the question. "When doctors disagree......"

Will You Help?

N OW that the DX Log of the World is to be combined with RADEX, we want to make our list of foreign broadcast stations the most complete in existence.

We want to give the following information in regard to each of them and we ask the help of our readers:

We would like to show frequency, call letters. location, power, owner, mail address, identification signal, signoff signal, and hours on the air.

If you have compiled any of the above information, please forward it to us.

A Brief Farewell to Radio

A NOTHER radio year has rolled on like "Ol' Man River" and the summer season is upon us. While the foreign stations on the broadcast band will more or less disappear those who have all wave receivers will find compensation in the greater signal strength of many of the short-wave stations.

We are planning very greatly to increase the service rendered the radio listeners by this magazine commencing with the September issue. Until then, *au revoir*.

Some Aerial Experiments

This report of DX activities comes from Randolph Andrews, P. O. Box 177, La Crescenta, Calif.: "I have had on Airline superhet about four months and have had quite good results. My log so far is 381 stations —bcb. 121, sw. broadcasters 76, hams, police, airports, etc., 138, code stations 46. Have had no luck with Australians or New Zealanders yet. There is so much interference from Pacific Coast stations, it is difficult to get many of the eastern stations.

"On the sw. I have done fairly well A few of my best are: HJ4ABE. HJ1ABB. OAX4B-D. PRF5. TIEP, PLV, YV2-3RC, Prado, VK2-3ME. VK3LR, CJRX-0. YV5RMO, VE9GW, KKH, HC2RL, HP5B, YDA, JVF-M-N-T, COC-H, XEBT and, of course, all the American relay stations and a few of the American phones. My Europeans are GSB-C-D-E, FYA on two frequencies, PHI, DJA-N, and EAQ. All of the above came in very loud and clear Have also got LSN, HPF, KKP, VLJ-VLZ2, and the new one, HP5J.

"I have put up and pulled down

• • • THE DX SUMMARIES

about ten aerials since the season started and now have found a satisfactory arrangement. I have two aerials, both Zeppelins, One is 75 feet long running N-E and S-W with Giantkiller lead-in. The other is 25 feet long, running SE-NW with lamp-cord lead-in. My ground is two pipes driven three feet into the bv Giantkiller ground connected lead-in and kept watered. My 7-tube Airline is very sensitive and selective. I have received hams from all nine districts, Santo Domingo, Cuba, Mexico and Hawaii, However, I miss out on quite a few hams and police as my receiver covers only from 16



Swim or sing! A champion swimmer and a beauty as well turns to singing for her supper as Eleanor Holm is heard as the jeatured vocalist with her husband's band over the Columbia network. Her husband, as you probably know, is Art Jarrett who recently deserted Hollywood to jorm his own orchestra. This unique husband and wije team is heard nightly from the College lnn in Chicano.



Ferde Groje, conductor and composer, who recently signed a contract to wield the baton in the George Burns and Gracie Allen broadcast each Wednesday from 9:30 to 10:00 p.m., EDST, over CBS, Groje and his orchestra are supported by the Buccaneers male octet.

to 51 m, and from 175 to 550."

When the Dial Slips

"It was with considerable envy that I used to read the accounts of various DXers but with the diligence of myself and the keener ears of my wife, I can now report having heard some of the following stations which seem to be lacking in the commentaries of Kentuckians: CKWX. CKGH, HHK, KFPM, KGBU, KGU, KORE, KRE, KWG, TGX, TIGP, TIVL, XEAI, XEAJ, XEAM, XEZZ. On the sw. Daventry and other European stations come in with local station volume but the Europeans on the bcb, have as yet eluded our most persistent efforts. We are remarkably free from interference, generating our own power and having a doublet antenna 70 feet high. We use a Philco 43. While this letter is being written (9 p. m. EST.) HIZ is coming in fairly clear even above a bad background of static." This interesting report comes from Henry R. Mortimer, Royalton, Ky., who has this query: "Can you tell me why a station using a frequency of say 1190 kcs. tunes in on my dial at 1220 and a station using 940 comes in at 970?"

It is not possible to manufacture radio sets in quantities and have each and every one of them tune accurately according to the kilocycle markings of the dial. Where some stations tune too high on the dial and others tune too low, nothing can be done to correct it except to make a new scale for the dial. Where, however, all stations come in either too high or too low, it indicates that the dial has slipped on the shaft, Thus in Mr. Mortimer's case, the two stations named each registers too high. If this is true of most or all stations, the set screw which fastens the dial to the shaft should be loosened, the dial moved slightly on the shaft to the proper point and the set screw tightened.

From Great Britain

Writes R. A. Stansfield, Neward Road, Ripley, Woking, England: "Medium-wave DX with a little fourtube battery radio has been patchy this winter. After several months of poor U. S. A. and Canadian reception things picked up a bit towards the end of March and the good conditions are still with us. April 7th was the peak morning with KWK, WFEA. XEAW, XEW, WDRC. WOKO, etc. as well as old friends like WCAU, WTIC and KSL making the crossing. Others heard in recent months include WREN. WTOC. WAPI, KVOO and XENT. The South Americans who practically monopolized the air during January and February, have faded away except for moderate signals from LR3-5-6 and WNEL and WKAQ."

Our representative in England, Robert Pybus, 4, Highfield Rd., Chorlton-cum-Hardy, Manchester, also reports DX conditions on the mend with 30 stations heard the first week of April, several at fine volume. "On the sw. 20 m, hams have been coming in till 12:30 a. m, and I have logged plenty, the best being W9JGA in Denver, Colo., W4CRE in Nashville, Tenn., and VE1DC in Moncton, N. B. S. W. broadcasters have been rolling in; the best SA's being YV5RMO, HJ4ABE, HJ3ABH, YV2RC-3RC and PRF5. Have also heard COH once or twice at poor strength. British Summer Time begins April 14th and will make the difference with EST six hours."

Reporting on Both Bands

"In two and one-half months of the past season, I have verified 183 stations on the bcb.," announces Nicholas J. Hock, 20 Burnet St., Newark, N. J. "I verified 59 in 1929 while using a Radiola 18; 128 in 1930; 113 in 1931; 44 in 1932; 30 in 1933; 9 in 1934. From 1930 to 1934 I used a Fada 42 t, r, f, 9tube. My present set is a Hammarlund Comet-Pro with a peak preselector. I have not had much luck with TP reception although I have heard 1YA very faintly. My log now stands at 566 verified of which 61 are over 2000 miles distant. I have logged 618 stations. My best are: PP, Normandie, KFPM, KFXM, KXO, KICA, KGFL, WOBZ, 10-AK, VE9EK, TGW, LR5.

"On the sw. I have heard most of the Europeans, SA's, two in USSR, one each in Japan, India and Java, three in Australia and a few in Canada, Cuba and Mexico, I find my antenna is best for reception from the south and southwest. It is a doublet with each part 42 feet long and a transposed lead 50 feet long. It runs E-W. I use two speakers and have them arranged so that I can use one for each ear thus producing the effect of immense earphones. Besides the doublet antenna, I have two L-type aerials, one 100 feet and the other 200 feet long. I'd be lost without your 'Around the Clock on

the Short Waves.' In order to use this I draw two lines in red over and under the EST times. Who has heard an English-speaking station on 9490 kcs. between five and seven a. m.?"

From the Whole World

Warren C. Reichardt, 5 Grant St., Reading, Mass., submits his complete log which is, of course, much to long to publish. He has 9 in France, 12 in Germany, 4 in Sweden, 4 in Poland, 7 in Italy, 5 in Czechoslovakia, 9 in Central and S. A., 22 in Australia, 3 in New Zealand, 13 in Japan, and one or more in Denmark, Finland, Spain, England, Ireland, Switzerland, Holland, Latvia, Portugal, Africa, Hungary and Hawaii. Certainly a very fine list. "There are three stations which I would like to hear now and those are XGOA, KGBU and KZRM, I wish it were possible to list the addresses of all the foreign bc, stations and mark those who refuse to verify so that we could save a little money on postage. I think the SA's are the poorest both on sw, and b.c. for verifying. It seems to make no difference whether you write in English or Spanish; they still refuse to verify."

A Study in Selectivity

"I am using a Stewart-Warner super and am able to separate WOR from WLW with no interference and WOAI from WFBE (less than a mile from my aerial). At night I push WTIC and WBAL apart and get KNX. On sw. I get GSC easily between W1XAZ and W3XAU and GSA right alongside of W8XAL and VK2ME alongside of W1XAZ. All these come through with no interference," This excellent report of selectivity comes from Barton A. Dowdy, 2903 Warsaw Ave., Cincinnati, Ohio, who "enjoys reading what others are able to receive but I do wish they would list the hours a little more exactly so that some of us can be helped by

their achievements. For instance, if I wanted to tune in 2BL or 2CO or JOAK-1 when should I start tuning, how are they liable to act as regards fading, will they come in over a reasonable amount of QRN, etc." P. S. "Heard JVT the other morning and was really surprised at the clarity and volume of the station." (Editor's Note: But how about the hour you heard them, Barton; and did they fade, etc.?)

One Tube Results

"As the DX season is almost gone, I am submitting some of the results," prefaces Allan Ford, Portneuf Station, Que. "I am now using a -30 tube with two dry-cells in series for A batteries in my one-tube receiver. My antenna is about 128 feet long including lead-in. It runs north-south with lead-in at the south end. It seems to be very efficient on most frequencies. I use a ground only for sw. Unfortunately I pick up a good deal of power-line interference on the bcb. Nevertheless, in seven months, I have compiled a log of 411 bcb. stations! Everyone was identified perfectly and most stations were heard at least twice. On this little one-tuber I have heard, among others, W6XAI, LR5, CP4, CKY, Frankfurt, PP, HJN, CMCD, CMBX, CMBC, XETH, XES, XEU, XEMO, XEWZ, WAIM, 10-AK. XEAF, KOTN, VONF, HHK, KFPW, XELO, and XFX. I sent a report to KADA on Nov. 20 and got the veri 125 days later. I would like to hear from others and will answer all letters. Want to hear particularly from the West Indies and South America."

"Eleven More Months"

"DX here has been mostly nil," laments Warren E. Winkley, Hughson, Calif. "We have had terrible static which spoiled all DX on the bcb. and hampered DX on the sw. However, I did manage to log WDEL, CX26 and KRLC lately bringing my log to 656. Some verifications have drifted in also. They

are WJAS, KOH, ZL1YA, JOCK-1 and JOXK. I hereby claim the record for waiting the longest time for a verification and still receive it. I wrote JOCK-1 on March 11, 1933 and received verie on March 19, 1935, a wait of two years and eight days! I wrote JOXK on January 1, 1933 and received an answer on March 28, 1935, two years, three months and 28 days. Can anyone beat that? Have the boys watch out for XGOK and XGOH, two new Chinese stations. Both will have 10 kw. The first will be on 800 and the second on 560."

Super Power in N. Z.

"I have some very good news for the DXers of the U.S. although it is bad news for the New Zealand DXers," says George E. Bott, 507 Southampton St., E., Hastings, N. Z. "The New Zealand Broadcasting Board has called for tenders for the construction of a new transmitter to replace the existing 2YA. The new station is to have a power of 60,000 watts and will be on the air in about a year. The new station should give a very good signal in the U.S. DXing, up to about three weeks ago (March 18) has not been much good in Hastings but has new begun to get better and I have managed to log KQW, KOH, KFBK, WBOQ, XELO, WIBW, 2BH, 3WR, XQHA. I managed to log 19 Europeans and so far have answers from 16 of them. My total number of verifications is now 189."

The Noisiest Location

Looks like we would have to conduct a contest to find the location with the greatest interference. W. J. Brenner, Jr., 64 West Ontario Street, Chicago, thinks he has it. "I am twelve blocks from the world's busiest corner. I am in a forest of steel buildings and in the midst of all kinds of static in the downtown section of Chicago." Yet, in spite of all this, Mr. Brenner has 341 verifications, a few from stations with 10, 15, 25 and 30 watts, many with 100 over 1000 miles away. He has logged every state but six using a 6-tube Fada battery set up to the 250 mark since which time he has had a Philco 47-B. He would like to hear from other afflicted ones on the near north side of Chicago or downtown districts of other cities.

"Here is my log which I started the 12th of November, 1934," submits Fred W. Kroen, 606 Walnut St., Monaca, Pa. "It consists of 446 stations of which 336 are on the bcb. and 110 on sw. This does not include any amateurs, or police. The bcb, includes all the states with the of Wyoming. I have exception around 280 stations verified so far. I have logged 32 in California with 19 verified and reports out to the others. I have a Midwest 16-tube set. My aerial is a double-doublet running east-west. I can bring in Australia on the built-in antenna in the set. I don't know what is wrong with the SA stations. Either they are very slow in answering or they don't answer at all. I heard from only ten out of 26. The last veri I got was from HC2RL and that took 78 days."

Veries that Verify

"Let's keep these DX rules pretty stiff, it's too easy otherwise," maintains John B. Clapham, 7451 Sprague St., Philadelphia. "I strongly disagree with the Plainfield DX Club in respect to counting 'thank you' letters as verifications. Last year, I built a two-tube sw, set. The first European station I heard was GDB. I had no accurate sw. log at the time and I though the call letters were GBB. I sent for a verie and got the following reply: 'Thank you for your letter regarding your reception of GBB.' According to the Plainsfield DX Club that could be counted as a verification, yet I have never heard GBB on this or any other radio."

"I have had a radio set ever since 1922," observes Blake H. Page, 3045



Bobby Benson, in his ten-gallon hat and full H-Bar-O Ranger regalia, is full of pepand rarin' to go. Just now Bobby and his friends are adventuring in Darkest Africa, as all who follow their hazardous exploits (Monday through Friday at 6:15 to 6:30 p.m., EDST, from WARC) are well aware.

"T Washington Blvd, Chicago, Ill. now have a Scott all-wave 15-tube 1934 model on which I have heard over 700 stations on the bcb. alone. This in spite of the fact that reception in this city of Chicago has its difficulties. We now have or will have pretty soon, five 50,000-watters and these are most or all out here on the West Side. I hear WABC, WOR, WEAF, KDKA, WBZ, KMOX. CFRB. all clear as a bell with no interference at all on my Scott. I am using a 30-foot DX 'Lifetime,' a Scott allwave super-system, and a Lynch Noise-reducing antenna system. I use five rods for a ground and also a water-pipe."

Logs Them Twice

"I started logging on January 5 of this year when I bought a dual-wave Airline covering the bcb. and from six to 17 megs.," supplies I. F. Wolpe, Jr., 841 N. 2nd Ave., Phoenix,

Ariz, "Since that time I've logged 63 sw, and 99 bc, and seven police. I log all stations tentatively the first time I hear them and permanently the second time. Some of what I call by sw. good catches on theare COH. Pontoise, GSB-C-D, HC2RL, HJ1ABB, HJ3ABF, HP5B, JVF, JVT, KKH, KKP, KZGF, Prado, PRF5, TIEP, VE9BJ, VE8GW, VK3LR, CK3ME, WET, WTR, XGW, YDA and four Venezuelans."

"I have verifications from 695 stations" reports Hartley Phillips, RFD 2. Flemington, N. J. "Of these 153 are over 2000 miles away, 23 are in Europe, 15 in Australia, two each in New Zealand and Hawaii. My best are 3BO, 2KO, 2KY, 2GB, 3AR, 4BH, Munich, Berlin, Koln, Bordeaux, Parede, Budapest, Bari, Sottens. Genoa, Milan, Copenhagen and Madrid. My set is a 5-tube Crosley, batteryoperated, with a few improvements. Tubes used are 30's and 34's. The aerial is about 100 feet, eastwest. I will be glad to help DXers in identifying the bcb. Europeans and can supply addresses."

From the Pacific N. W.

"I see very few reports from Oregon and Washington and so I thought I would send my log in," says L. R. Underwood, (no address), "I use a Patterson 8 all-wave super and two aerials, a doublet N-S and a conventional L E-W with four copper rods six feet long for a ground. In nine months with my Patterson I have received 101 police, 207 sw., 1209 hams and 309 bcb. Of the latter 27 are J's, 2 China, 4 NZ. and 12 Aussies. Others are KZRM, KGU, KGMB and a splendid veri from LR5. I have had all continents and a total of 34 countries outside of NA."

"Radio reception is practically over for me due to the static and interference starting in here," bemoans Earl R. Roberts, 2308 Roosevelt Ave., Indianapolis, Ind. "I find my log has increased an even 100 stations—from 1053 last year to 1153 now. Verifications from 420 to 647. Only three new foreign stations were heard, KGMB, 1YA, LS2, compared to five last year—CX26, LR4, LR5, Fecamp and Beromunster. Have added 15 new Mexicans, three new Cubans, 18 Canadians, 33 US. Probably my three best catches would be the 10-watt VE9EK, the 20-watt XEE and KGMB."

Rudolph Kure, Cincinnati, relays from the Vicomte de la Brosse, 1 rue Milton, Paris 9° , France, the infermation that Tour Eiffel is now on 1456 kcs, or 206 m. with 5000 watts and wishes reports from American listeners.

Who Can Tell Him?

"I will correspond with anybody who can tell me how to get TA's TP's and SA's," offers Dick Campbell, 72 Griswold St., Delaware, Ohio. Dick is 14 years old and a freshman in high school. "In three months of tuning on my 1935 Knight 5-tube band-spread superheterodyne, I have received a total of 400 stations-359 bcb. and 41 sw. My best on the bcb. are TGW, XFX, KPCB, WMBR, XEBC, CMBS, XEMO, WOCL, KFVD, KTRB, CJAT, XET, WKAQ. On the sw. GSA-B-D-E-F, DJC-D, EAQ, 2ME, JVT, FYA, HBL-P, IRA, HJ1ABB, PHI."

"This has been my best season on the bcb," concludes Russell W. Foss, 52 Linwood St., Lynn, Mass . "I logged 24 Europeans of which the best are Turin, Copenhagen, Nurnburg and Radio-Vitus, LR4-5-6-9 and LS2, all in Argentina, came in several times, YV1RC is the most consistent SA with the exception, perhaps, of LS2. I also heard CX-26 and YV6RV. My best Mexicans are XES. XEWZ and XEMO. Out of 18 Cubans, my best is CMHW. In December CJRM, Moose Jaw, was heard quite frequently and since then CFCN and CKY have been heard, KMPC, KWG, WJBS, KGW, KHQ, KTAR, KROW, KTM, KEX, KECA, KHJ and KIDW are my best US. On the sw. I have heard JVT, SUV, YDA, VK3ME, VK3LR, CT1GO, ZFD and XAM."

From the Other Dominion

"This is a Newfoundlander saying hello," greets P. J. Walsh, 12 Flower Hill, St. John's. "On December 16, a contest was held featuring 'Iowa on" the Air.' I was lucky enough to complete in full the programs of WHO, KFNF and KMA. It is more than three months since the contest but I have not heard anything about it. Has any DXer logged this station: VGNS, the SS New Northland? Ι caught them in June, 1934, on 770 kcs, when they were broadcasting a program for the SS Belle Isle, both ships being at sea. I have a letter of verification on this event. I have also heard the New Northland broadcasting from Halifax. Montreal and off the coast of Newfoundland. I use a Lyric 5-tube SA5L, 1934, which tunes from 540 to 2000 kcs."

Manuel Alberto Cadilla, P. O. Box 337, San Juan, P. R., is continuing his good work. He now has a total log of 266 with the highlights being PP, LS2, CX26, YV2RC and 54 100watt stations in the US. proper.

"I now have a Scott 15 AW, a real machine," pridefully proclaims Eric Butcher, Cokeville, Wyo. "My best off - the - continent stations are VX2ME-3ME-2BL, HIX, OAX4B, JVT, VP6VB, JOFK, PRF5, FYA, DJC, HC2RL, PRADO, HJ4ABE, YV1RC-2RC-3RC. VPD, CT1AA. HJ1ABB, YV5RMO, HP5B, JOQK, JOFK, JVF-E, and the five Daventry stations. My receiver has a special 5-way switch on the panel so I can tune from one aerial to another. A double doublet is used for one."

Good for TP's

"This has been a wonderful season for TP's," exults Victor Young, 83 Emery St., London, Ont. "I have had my share—1YA, 2BL, 5CO, 5CL. 2UE and 4QG. Other good catches on my new Westinghouse 84 are Radio Normandie, Strasburg, WNEL, WKAQ, CJLS, CJCB, CJAT. W6XAI, KOY, CX26, TGW, HHK. WTAW, KXO. My best, YV1RC, 1 hear at 8:00 p. m. On the sw. 1 have heard 80 per cent of the 100 best. I would like to correspond with DX fans anywhere and promise return mail service."

O. Ingmar Oleson, Ambrose, N. Dak., reports in his March-April reception: LR5, 1YA, 4QG and 2BL "all QSA4, R7." Short wave reception is not up to normal but is gradually getting better. Mr. Oleson heard an unidentified station at about 31.5 m. the last letters being LT. He would like to correspond with users of antenna tuners for both bcb. and sw. frequencies and will exchange diagrams. He uses the Scott Deluxe.

On the letter head of the Wauwatosa DX League, Wauwatosa, Wisconsin, Dave Stimple. 7439 West Garfield Ave., writes: "My log stands at 331 after a year. Could anyone give me tips on TP and TA stations, on SA's and New Englanders? I invite any owners of a Philco 95 to correspond with me and compare logs especially those in Wisconsin. Our club is two weeks old and has ten members. Yours till VE9EK drowns out WLW."

Who is WLUF?

"What station was transmitting on approximately 1490 kcs. Sunday morning. April 7, at 5:00 o'clock, signing WLUF?" queries Stuart B. Leland, New Canaan, Conn. The modulation and frequency stability were awful. The melody 'Among my Souvenirs' was repeated constantly and unintelligible voice announcements were made frequently." Did anyone else hear this station?

Edward Kocsan, 1445 Franklin St., Johnstown, Pa., writes: "I have piled up a log of 816 stations, receiving about 500 of them this last season. My foreigners include: LR5, TGW, YV1RC, PP, Radio Normandie, HJN, CX26. PTT, IJTR, and KGMB. Also VE9EK, 10-AK, KFPM, and all but 58 of the total in the U.S. My set is a Crosley 157, 10-tube midget superhet. Could anyone furnish me with a schematic diagram of this set?"

"I use a Stromberg-Carlson 60 with a Westinghouse Doublet and dces it bring them in?" Bob Calder, Eox 647, Kenora, Ont., asks himself. "On the sw. have had every continent but Australia. COH is the best all-around reception here. On the bcb. my best are LR4, 1YA, CKWX and WEXL. My total on the bcb. is about 190. I would like to correspond with DXers in Honolulu and will answer promptly. When does KKH operate?"

What to do with Them

"Many of the fellows that write in requesting correspondents never answer any letters," complains Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y. The word "chiseler" is used pretty often nowadays but sure those deserve it who ask for letters and then fail to answer them. Raphael now has 402 veries but thinks that of LR5 is best of all. He would like to hear from the West Coast.

"Using a four-tube Philco 81, I have acquired a log of 438 stations since August, 1934," adds up Francis Schmidt, 707 Edmond St., Pittsturgh, Pa. "Among these are TGW, KFPM, WKAQ, KNEL, KFVD, KSEI, KGDY, CJLS and HHK, all verified. Reports are out to LR5, 10-AK and others. Haven't heard any TA's or TP's as yet although I have been hearing a weak signal on 650 around 5:30 am. which I believe is 1YA."

"This morning, March 24, through a barrage of static that sounded like a Cuban revolution, I managed to bring in CX-26, Montivideo." reports Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa. "I had them from 3:15 a.m. EST (when KNX signed off) until 4:00 a.m. On March 17th, I received HHK R9."

"I have verified 107 stations this

winter, 28 of which are 100-watt or less," totals Lamar Schlicher, 707 South 10th St., Allentown, Pa. "My latest are CMHA, XELO, KFUO, KTRH, KVOA, KASA, XEO, CHCK. WLEU, CKCH, WPAY and WIRE. I use a small midget 5-tube Monarch."

Reports in Short

"I am very anxious to hear from some kids of my own age," remarks Taylor Stewart, 1426 Princeton Ave., Salt Lake City, Utah, but he does not say what age that is. Taylor got a new Stewart-Warner for Christmas and has already logged 200 stations on the bcb. and 350 on the s. w. He had the thrill of picking up "Little America."

"Using a Majestic 90 eight-tubes, l have been able to verify the following stations," submits Charles Leboeuf, Box 222. North Grosvenordale, Conn. "TGW, XEMO, KFAC, CFQC, KFBB, KGNF, CMBC, KFPY, KFSG, CFCH, COA, CJKL, CMCA, COX, W3XCW, CJAT, W6XAI, KXA, CP4, KMPC, LS2, CT1GL, Bordeaux, Renne, Cologne, LR5 and CX26."

"I have a King 7-tube, 1929 model," writes M. T. Whalen, from 1022 7th St., Saskatoon, Sask. "I have logged WDRC, WHAM, WJAX, WBT, WJR, KDKA, W6XAI, W9XBY, CMQ, CMCW and six Mexicans. I have a 100-foot straight aerial with a seven-foot iron rod for a ground. I have logged 154 stations in about eleven months."

"Sunday night, March 30, I couldn't go to sleep so I hied myself to the three-tube Kadette," says E. D. King, 412 Linden Street, Morgantown, West Va. "From 1:00 a.m. to 7:00, I caught 23 new stations from coast to coast, south boundary to north. My three best vere KTM, WSYB, and KARK."

C. H. Mann, Karaperi, Cambridge, N. Z., tells us the 3YA Christchurch. on 720 will increase its power from 2500 to 10,000 watts by the end of April and that 4YA Dunedin on 790 (Continued on page 33)

Ozzie Nelson of the "Bakers"



O^{ZZIE} NELSON was born in Jersey City March 20, 1906. His parents were of Swedish descent, his grandfather being a Swedish nobleman who dropped his title when he came to the United States.

In 1920 when Ozzie was 14 he became the youngest Eagle Scout in the country and with several others was sent to the Olympic games in Antwerp. Belgium. His brother went with before the two him and youngsters came back home they achieved the distinction of singing before the late King Albert of Belgium.

As a Student

His voice showed promise even then but when he tried out for the glee club at Rutgers College he failed to make the grade. In Rutgers he paid all his expenses by organizing a student orchestra for

• • • By "BETTY"

campus affairs. With all his other activities it was a tough grind but he came through with flying colors. Another source of income was the sale of drawings, mostly humorous, to magazines. In college Ozzie was a star quarterback, intercollegiate welter-weight boxing champion, varsity swimmer, president of the student council and art editor of the college magazine.

After Rutgers he went to New Jersey Law School, continuing to earn his own way by playing every night with an orchestra at a nearby carnival. With a law degree in his pocket he sat down and thought about his career, balanced the advantages of law against music. Music won and he has been an entertainer ever since.

As a Band Leader

He started out to organize another band and began playing at private parties. With his likable grin and clean-cut manner it wasn't hard to get bookings and soon he had more offers than he could accept. College proms and debutante dances built up a reputation for him so quickly that soon he was playing at one of the larger New York hotels and broadcasting.

But he wasn't satisfied just to get to the top. He wanted to stay there. That's why he developed his unusual style of singing. All his spare time went into concentrated thinking on how to make his band stand out from the crowd—make it different from the general run.

As a Duet

He found another voice that fitted in perfectly with this new fresh and youthful style and the voice belonged to Harriet Hilliard. They teamed up as a "boy and girl" singing duo. Their voices were new to listeners and the night time dance broadcasts from the hotel where Ozzie was playing became a popular feature. In September, 1933, they were signed for the Bakers Broadcasts with Joe Penner over NBC and since then have been heard in this series.

He likes his job, eats up the hard work it took to make his a success and plans to keep on working just as hard. That is the secret of the college boy who couldn't make the glee club and later became a singing star of the airwaves.

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Eddie Canton will return to the air next fall in a new CBS series under the same sponsorship as before. The comedian again will be featured with Dave Rubinoff, Ted Husing and "Pargyakakas." Eddie is at present in Hollywood making a picture tentatively titled "Dreamland," an adaptation from one of Clarence Buddington Kelland's stories, the locale of which will be an amusement park. He plans no vacation this year, saying that "changing from one kind of work to another gives me all the relaxation and variety I need."

Burgess Meredith, who plays Red Davis in the NBC program of that name, stepped from behind the microphone at Radio City studios recently to open with Katherine Cornell in a new play, "Flowers of the Forest." And did the Broadway critics like Red? Burns Mantle called his performance "outstanding in its colorfulness and force." Robert Garland referring to the play's fantasy. wrote: "In Burgess Meredith's unwavering hands you are apt to believe in it, even as you believe that Mr. Burgess is well up on the honor rell of our gifted younger actors."

* * *

Pet names of some NBC artists: Morton Downey addresses his wife, the former Barbara Bennett, as "Lover." She retaliates with "Toots." Frank Luther calls his missus, Zora Layman, "Cute," and she salutes him as "Sloo-foot." Paul Whiteman's term of endearment for the beauteous Margaret Livingston is "Maggie," while Don Ross refers to Jane Froman, his better half, as "Bunny-Nose."

Gertrude Berg, famous for five years as Molly Goldberg of The Goldbergs, has gone back to her girlhood days to find inspiration and ideas for her new serial, "The House of Glass," the scenes of which are laid in a small summer resort in the Catskills. Her father was a Harlem inn-keeper when she was a child and many incidents related in the serial had their origin in her father's hotel.

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Robert Simmons, tenor in the Revelers Quartet, is the only unmarried one of the group. Wilfred Glenn, the bass, has three grown children—one son, a lawyer, another a banker, and a daughter, an actress. Elliott Shaw, the baritone, has two, a girl 16 and a boy 10.

* * *

Mario Cozzi, operatic baritone heard on the NBC networks, was born in Florence, Italy, spent his childhood in South America, and has been a resident of the United States since 1919, becoming a naturalized citizen. His operatic debut was made in his native Italy at La Scala in Milan in 1932. His first singing engagement in America after a career as private secretary to Gatti-Casazza, former director of the Metropolitan Opera, was in the movies.

* * *

Jack Benny and Mary Livingstone are among the greatest home-bodies among all the outstanding radio performers If the comic pair really want to do something extremely gay, they see a midnight movie. Nightclubs and night-life in general have little appeal for them.

Chatting With Our S. W. Listeners

Two years ago this department prophesied good reception of the Australian stations VK2 and 3ME, but good reception failed to materialize. A year ago we again stated good reception should obtain from VK2ME, VK3LR and VK3ME and again were disappointed, but we can't go wrong this year. Although these stations are half way 'round the world, they are coming in at the present time with tremendous volume and should continue throughout the summer to put good signals into our loudspeakers.

Mr. H. N. Walker of Brisbane, Australia, tells us VK3ME has increased its schedule, working now from 5 until 6:30 a. m., EST., on Wednesdays. Thursdays and Fridays, and from 5 to 7 a. m. on Saturdays. Mr. Walker continues with the information that VP1A now announces simply as "Radio-Suva" as difficulty had been experienced in reading the call VP1A. This station is located at Suva in the Fiji Islands and is owned by Amalgamated Wireless, (A/sia), Ltd. The frequency is 13070 kc/s.

Two New Stations

"Tonight I may have received a singleton," surmises Edgar L. Koch, 1300 So. 17th St., Milwaukee, Wisc. "This was station HJV, Bogota, Colombia, on about 8.790 megs. or about 35 meters. It was announced as an experimental government station and was in communication with an American amateur. Musical items were broadcast to test modulation."

G. H. Millican, 321 E. 24th Ave., Amarillo, Tex. complains that too few Texans report on shortwave reception, in his detailed report on reception in his locality. "In the 31meter band," he writes, "there is a new station, HP5J, 9590 kcs., Pana-

• • • By PAGE TAYLOR

ma City, CT1AA, GSB-C, 2ME, 3LR, 3ME, PRF5 and COH are always good, DJA and DJN are weak, probably because their antenna is directed towards Asia, W1XAZ has changed its call letters to W1XK. In the 49-meter band I managed to hear GSL, 6110 kcs, at fair volume on several nights between 9 and 10 p. m., CST although YV2RC and other So. Americans try their best to spoil it. GSA and DJC are pitiful here; too much interference. Above this band YV5RMO and HJ4ABE are best, with OAX4D a poor third."

A New VE Relay

"I wish to report a new station on s. w. which relays the daily programs of CFCN on 1030 kcs." states James Maguire, 312 Devenish Aparments, Calgary, Alta. "This s. w. station is VE9CA on 6030 kcs. with 10 kw. power, working on the following schedule: Thursday, 9 a. m. until 2 a. m. Friday; Sunday, noon to midnight; other days of the week from 9 a. m. until midnight; all times, EST. CFCN and VE9CA announce, 'This is CFCN, the Voice of the Prairie, in Calgary.' I have been to the studios and all through them and would like to say that they have the latest and most up to date equipment. The transmitter is at Strathmore, about 20 miles to the east. Concerning DX from this locality, I might say that conditions as a whole are excellent, Daventry and Pontoise are heard well. DJC is seldom heard out here but that is the fault of so much crowding and no fault of the transmitter. DJN and EAQ both put in nice signals."

A New Haitian

"Last night I listened to a new station on about 9560 kcs. giving call letters which sounded like HH2R," reports Jerry Duncan, 330 E. Flagler St., Miami, Fla. "The location was given as Port au Prince, Haiti. This was on a Saturday evening between 10:50 and 11:20 p. m., EST. They tested with musical numbers, mostly American. Announced in French and English after each number and gave their address as the Automobile Society. The frequency was about 9560 kcs. It came in R7-9, but of course, 1 am not far from Haiti and my aerial is beamed in that direction."

"I am still putting up aerials," writes our untiring antenna experimenter Geo. Acker, Wadsworth, Ohio. "The latest is a Tobe and it it the best I have found yet. This kit works well up to about 11,000 kcs., and from there to 23,000 kcs. I have to use my 225 foot flat-top for an antenna and the 175-foot counterpoise. I recently received a veri from Rugby and note a new address for the British fones. Letters for these stations should now be addressed to the Engineer-in-(Radio Section), Chief. G. P. O. Armour House, St. Martin's le Grand, London E. C. 1. Two of our old friends are back on the air. JVM and JVN. These stations replace JVT. Both these stations are better than JVT was at any time during the winter."

Another Texas Report

"I was warned when I moved here that a DX enthusiast would die of a broken heart. Heavy mineral deposits, nearby mountain ranges and dead spots, coupled with almost constant atmospherics make distant reception extremely tricky at times," preambles James Sheppard, El Paso Herald-Post, El Paso, Texas. "However, with good equipment, an RCA Victor 262 and RCA double-doublet aerial, I have been able to snare quite a few of the elusive distant all parts of stations from the world. EAQ, GSC, GSA, 3LR, 3ME and 2ME are like locals here this

month. Pontoise and DJC are constantly picking up and JVT and JVM are as clear as crystals in the mornings until 5 a. m. The Venezuelans and Colombians are beginning to become nuisances. We had very good reception here until the dust storms began to create heavy atmospherics around 31 and 48 meters."

Charles B. Marshall, Jr., 26 Victoria St., Washington, Pa, and Whitney Smith, 53 West End Ave., Pontiac, Mich., report HJ4ABA, "Ecos de la Montana," Medellin, Colombia, on 11,720 megs. Mr. Marshall says, "They make an announcement every half hour in English, saying, 'You are listening to shortwave station HJ4ABA, Medellin,' Mr. Smith reports another Spanish-speaking station close to HJ4ABA, but this is the second harmonic of YV5RMO. This second harmonic came through for a while with perfect quality. "There is also a new Cuban on about 10200 kcs." writes Mr. Smith. "I haven't heard any English spoken but believe the call is CMHB. One evening at about 8 p. m. I picked up CEC, Santiago, Chile, on 10750 kcs. broadcasting Spanish music and announcing entirely in Spanish." Mr. Smith wishes correspondence from DXers.

CMHB on SW.

The new Cuban CMHB was reported by many readers. Raymond Sickler, 420 E. Baird Ave., Barberton, Ohio, says they announce in Spanish and English about every ten minutes, giving their address as P. O. Box 85, Sancti Spiritus, Cuba. Raymond uses a Philco 44 and wants correspondents, Mrs. V. B. Andrews, 8935 Meridian Ave., Cleveland, Ohio, reports CMHB testing between 2:00 and 10:30 p. m. EST., but states they are heard most often around 3 p. m. Mrs. Andrews uses a Mc-Murdo-Silver 5C Communications Receiver. She postcards, "I notice in the DX Log of the World you state

LSX does not verify. I have two veries from them, received in the past two months. They send a white card with LSX in red letters the full width of the card."

"There is plenty of QRM in the 49-meter band, but now it looks as though we will have QRM on 25 meters from the So. Americans," compains John A. Shanks, Russellville, Tenn. "At present I am hearing the harmonics of HJ4ABE and YV5RMO in this band, and the new station HJ4ABA, all of which combine in trying to cover up Pontoise. The French station comes in fairly well, however, until 11 p. m. EST, I have recently received QSL's from HJ2ABC, HJ4ABL and HJ3ABH. HJ2ABC, Cucuta, Colombia, says they have 50 watts on 50.2 meters. HJ4ABL, P. O. Box 50, Manizales, Colombia, gives its schedule as 11-12 noon, 5:30-7:30 p. m. and an English program on Saturdays from 10:30 to 11:30 p. m. EST. This English program is heard, though, from 11:30 until 12:30 or later. The owner-announcer is Mr. A. Van den Enden, a gentleman who seems to overflow with personality. He speaks in a personal way to everyone who writes him. HJ3ABH, "La Voz de la Victor," Bogota, Colombia, is on 6012 kcs, and surely comes in well between 8-11 p. m. EST. Their interval signal is three chimes exactly like those of the NBC."

QSL From YV6RV

Most of our readers have received QSL cards from YV6RV, Valencia, Venezuela, "La Voz de Carabobo." Jack Doherty, 2718 College Ave., Berkeley, Calif. has one, and adds the information that Radio-Suva is heard daily except Saturday between 8:30 and 9:30 p. m. PST. Jack wants correspondents in California. Others reporting YV6RV QSL's are Herbert Hyde, Elmwood, Conn., Oliver Amlie, Philadelphia, Pa., Al Steinmetz, Norristown Pa., John Shanks, Russellville, Tenn., Edward Lesiak,



A new electric musical instrument, the "Photona." which was recently invented and constructed for station WCAU, Philadelphia. Leonard MacClain is shown above at its console. The wide range of tones available in the "Photone" is said to be entirely different from any musical instrument yet produced. (In this respect, it's similar to some of those produced by Major Bowes' Amateurs).

Scranton, Pa., Geo. Acker. Wadsworth Ohio, Robt. Collins. Westwood, N. J. and Morgan Fashay, Montclair, N. J.

From Russell W. Foss, 52 Linwood St., Lynn, Mass. comes this condensed report: "YVR, 9168 kcs., Maracay, Venezuela, may be heard from 1-3 p. m. EST. I have had YNLF, Managua, Nicaragua, broadcasting on 6000 kcs. HJ4ABA, Medellin. Colombia is now on 11720 kcs. every night. HRM, Tela, Honduras, is a new phone on the low frequency side of the 20 meter amateur band, HJ4ABE, HJ4ABA, HJ3ABD and YV3RC are the best So. Americans here at present, I have a total of 101 s. w. stations on my 5-tube Lafayette, and would like to hear from other users of this set."

"I have 110 s. w. stations, which does not include any police nor amateurs," submits Fred W. Kroen, 606 Walnut St., Monaca, Pa. "I have 26 in South America and have 10 of them verified. I have been tuning for just a short while, having started last November. I believe this is a good record for a 16-tube Midwest."

A French Station About 11,900

"I am listening to a French-speaking station between W8XK and KKQ. I am pretty sure it is Pontoise but how does an Arizona cowboy who speaks English only get enough to verify them when they talk for 45 minutes straight?" inquires I. F. Wolpe, 841 N. 2nd Ave., Phoenix, Ariz. "JVF put in an R9 volume musical program at 1:30 p.m. the other day before phoning KWU, I have been on shortwave only since January, using an Airline 7D with an ordinary 60-foot antenna located in an area where the neighbors love to use their telephones."

Bruce MacKimmie, 620 Murray Hill, Westmount. P. Q., who has a three-tube t.r.f. home-built receiver, reports reception of RNE. VK3LR, LSX, ORK, DIQ and HVJ, as well as the usual So. Americans and Europeans. Bruce tells us that PCJ, Netherlands, broadcasts an English program dedicated to America on Wednesdays, commencing at 7:30 a. m. EST.

The Brazilians

One of the biggest surprises of the month just past was the reception by several readers of verifications from PRF5, Rio de Janeiro, Brazil. Most of these letters were several months overdue. The correct mailing address of PRF5 is Director of the Imprensa Nacional, Rio de Janeiro.

"The station I thought was LU8AB turned out to be PRA8, Radio Club de Pernambuco, Brazil," postcards John M. Wheeler, Redcourt, Lee-on-the-Solent, Hampshire, England. "I have received a verification from them on which they state they transmit simultaneously on 735 kcs. and 6040 kcs., although actually they have been on 6060 kcs. for a long time instead of 6040."

"On shortwaves I have logged a number of relay, police and amateur stations," writes Allan Ford, Portneuf Station, P. Q. "My log of relays stands at 71 with 4 verified. The verified stations are W9XF, DJC, DJD and HC2RL."

Verie From Fiji

While preparing this article a QSL card came from Suva. The face of the card is similar to those from VK3ME. On the right side is a globe with Australia occupying the center, and a large red circle encloses the Fiji Islands. Across the globe are the letters VPD. On the left side of the card is the notation: "Fiji Islands, The Garden of the Pacific. These islands were discovered in 1643 by Tasman and were ceded to Great Britain in 1874. There are a out 250 islands in the group and the total area is about 7100 sq. Mi. The population is 172,000 of which 4300 are Europeans. Principal exports are sugar, copra, bananas, rubber, cotton and shell. Amalgamated Wireless (A/sia) Ltd. operates the wireless services at Fiji, At the principal station, VPD, there are three transmitters. All these stations were designed and built in Australia by AWAL which also owns and operates wireless beam stations, coastal stations, ship stations and shortwave Overseas Broadcasting station 2ME Sydney. Amalgamated Wireless, (A/sia), Ltd., Suva, Fiji." On the opposite side of the card Mr. S. Exon (or Sexon?) writes, "Our only telephony schedule at present is of an experimental nature. We broadcast music and news daily on 13045 kcs. from VPD at 0530/0630 GMT except Sundays." This time, converted to EST, is 12:30 to 1:30 am.

Some DX Reports

"In a former issue of RADEX you did not give the frequency of XECR. I heard this station and believe they announced the frequency as 7380 kcs," report G. D. Hinson, Jr., 2312 San Gabriel, Austin, Texas. The address of XECR is Secretaria de Relaciones Exteriores, Mexico City, D. F. They work on Sundays only, from 6-7 pm, EST.

"Tonight Pontoise is coming tbrough R9 with a very good musical program. CJRX and HJ4ABA are also coming in well," states Nicholas Hock, 20 Burnett St., Newark, N. J. "The 31 meter band certainly has improved in the last three weeks. All the stations on this band are regular visitors now and my Comet PRO makes the best of them. I held VK2ME from 6:50 until 8 am, better than an hour, with an R8 signal. which is the best reception I have ever had from an Anzac. VK3LR always seems to have a shaky signal, while VK3ME. although steady. never has the volume 2ME has."

"On my G. E., K-80 I have logged 87 foreign stations," submits Earle Johnson, 440 Harrison Ave., Hamilton, Ohio. "This list is a result of a good many hours hard work between the hours of 8 am, and 8 pm. I am doing a 'rest cure' and am not permitted to be occupied at any other hours." Mr. Johnson starts a new log each month, and these 87 stations were logged during April. The list includes CTICT, DJE, FTA, HIL, HI4D, PRF5, HRP1, HJ1ABJ, and IRJ among the more difficult catches.

"Near the end of January I bought an RCA-Victor 263, 10-tube all wave model, and its performance on both long and short waves has pleased me very much. I feel rather proud of my list of stations, although it is not very impressive," exalts Herman Hils, 237 Morgan St., Tonawanda, N. Y.

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These two readers want correspondents:

Chas. E. Dunlop, Box 171, Kirkland Lake, Ont.

John F. Fisk, 238A Florida St., Vallejo, Calif.

"HJ4ABA was inaugurated on

March 25 at 7 p. m. EST giving the address as Ecos de la Montana. Edificio Casa Garces, Medellin, Columbia," reports Manuel Alberto Cadilla, P. O. Box 337, San Juan, Puerto Rico. "Heard CO7HT, Camaguey; LSX talking to New York; HJ3ABH, location not given; HP5J, 9620, Panama; a station in Pernambuco. Etazil, call not understood. Besides these many Europeans and SA's were heard I2RO is usually on 9360 on Sunday afternoons coming R9. Did you find out anything about BC6XYB, the station at Demerara, Barbados? They have never come in again since I first reported them. Have heard some calls from Santo Domingo who must be amateurs or outlaws as they stay on for very short periods."

The Hungarian Stations

"Reception was great today (April 28)" exults Albert Steinmetz, 411 West Girard Ave., Philadelphia, Pa. "I again picked up HAT and with much better results than before. I held it from 7:03 to 7:54 p.m. EDST. at which time they signed off with the Hungarian national anthem. The time and frequencies of the Hungarian stations are now as follows: HAS-3, 19.52 m., 15.370 kcs., every Sunday 9-10 a.m. EST; HAT-4. 32.88 m., 9125 kcs., every Sunday 6-7 p.m. EST. HAT is quite easy to pick up. I heard it on Easter Sunday for about 20 minutes and again, as stated above, the Sunday following, HAT now has a very beautiful verification card printed in red and green over white (the national colors of Hungary). It is so different from any others. On each is mounted a view of some Hungarian scene.

"I had a catch on April 23 I never had before. They gave the call in Spanish and in perfect English as HKV, Bogota, Colombia. on 8795 kcs. Announced as experimental station testing; asked listeners to write their reports to the Ministry of War, Bogota. I had it from 6:45 p.m. EST to 7:08 at which time, after playing (Continued on page 33)

With the Members of the I. D. A.

ALLING "CQ" to all DXers, As this is the last issue of RADEX until September and reception is now due for the usual seasonal change, we will omit most of the reports. The season as a whole has been fairly good. Now that bcb. reception is through we are awaiting the arrival of many old friends on sw. The 25 and 30 meter bands are becoming heard again while 49 meters is fading. We, for one, are not sorry. The SA's offer good entertainment, but good reception of Europe and Australia will be very welcome.

It is in order at this time to again thank RADEX for its generous cooperation. We have made some new members and, judging from reports, RADEX has made many new friends. We also thank everyone who sent in reports. We especially thank D. R. D. Wadia of India and B. E. Mitchell of South Africa.

For DXers who desire up-to-theminute tips and news, we recommend W9XBY, 1530 kcs., Kansas City. Tune for them each Wednesday at 12:01 a m. CST.

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Local IDA chapters are springing up everywhere. New ones are the two in Los Angeles and Beverly Hills and the one in Toledo. Members of the London Chapter, led by H. M. Blaber, recently visited the London Power Station and the International Telephone Exchange. Fine business. H. M.! Anyone desiring information on how to form a local chapter please write headquarters at Bloomington, III.

The offer of a free copy of our magazine, the Globe Circler, is still

• • • By JAMES T. SPAULDING*

open and it may be secured by writing 3524 N. Western Parkway, Louisville, Ky.

Oliver Amlie, DXer extraordinary, writes: "Anyone who has not yet joined the IDA should do so promptly. I recently had the pleasure of turning over to the IDA the entire membership of the International Amateur and S. W. Fans' Society." Friend Amlie has sent in 130 reports to the three Aussie sw. stations and challenges anybody to beat this record.

If you have not yet received a longawaited verie, don't give up. Mrs. Ledbetter of Vicksburg just received a verie from JOXK after 15 months. Maybe we'll get those due from JVF and HJ1ABB sometime!

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Don't forget the second IDA special from HP5B, Radio Panama, 6030 kcs. on June 14th.

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Many have asked for detailed information about membership requirements of the IDA. They may secure this by addressing the writer.

* *

We hope to announce the winners of the various prizes in the IDA contest in the next issue and so, until September, here's hoping you all the very best of everything, good DX and signing off. Hasta Luega!

*3524 N. Western Parkway, Louisville, Ky.

The RADEX Radio Map of the World has a dial on front cover which you turn to the time in your zone and instantly the time for every place in the world is indicated. Price only 25c postpaid anywhere.

Converting Old Sets for S. W. Reception

RADIO set may grow old but it seldom wears out. If you replace its tubes, clean out the dust and readjust the circuits. it usually becomes about as good as new. There are thousands of such receivers in existence, many still giving excellent service, but most of them have been shoved away into obscurity to make way for modern. all-wave sets. If these old receivers could be remodeled so as to tune to the short waves, instead of only to the broadcast band, their usefulness would be revived.

A few years ago these short waves were not generally known to the pub-The only signals in the shortlic wave band consisted of amateur and commercial transmissions in code which were of little interest to listen-Today, however, in the shorters. wave band, we find interesting police. aviation. amateur and broadcast radiophone conversations and programs. These additional stations are denied the owner of an old broadcast receiver unless he uses a short-wave converter. Many of the readers of RADEX have asked whether their old sets can be converted so as to cover at least a portion of the shortwave band, such as the upper half that is just below the 1,500 kilocycle end of the broadcast dial. Such conversions would make it possible to pick up the police, amateur and aviation broadcasts that operate on 1,700 to 2,400 and 3,800 kilocycles.

Changing the Circuit

When we attempt to change the design of an otherwise satisfactory radio set we are very likely to reduce its efficiency. This is particu-

• • By B. FRANCIS DASHIELL

larly true when inductances (coils) and capacitances (condensers) are altered in size so as to create new tuning ranges so that signals having higher frequencies than those used for broadcast reception can be passed through the circuits. The coils in a broadcast receiver are designed to pass frequencies between 600 and 1,500 kilocycles. When we desire to pass higher frequencies, such as those from 1,500 to 5,000 kilocycles, much smaller coils and condensers will be needed.

However, if the owner of an old set is willing to sacrifice some of its original sensitivity and D-X qualities, it may be possible to alter the circuits so that the short waves down to nearly 40 meters can be received. But some of our readers are doomed to disappointment right here, for much depends upon the type of set to be converted. While it is possible to alter a superheterodyne so that it will tune to short waves, the work will require the services of a skilled radio technician as a careful redesign and balancing of the tuned r.f. and oscillator circuits is required. Also, a new oscillator arrangement must be determined, and for these reasons we do not generally recommend anyone attempting the conversion of a superheterodyne set for short-wave reception.

Using T.R.F. Sets

The tuned-radio-frequency receiver —and there are many thousands of this type still in use—is readily adaptable to variations in its tuning range. Little difficulty should be experienced if one is careful to follow instructions. Perhaps there are certain receivers, such as those of unusual design and which may employ involved r.f. transformers with neutralizing coils, which cannot so easily be altered. They need not be entirely ruled out, however.

The coils in a radio receiver determine the wave lengths or frequencies to which it will respond The size of the coil (number of turns of wire) controls its reactance to the flow of an alternating current. The faster a current alternates the more difficult it becomes for the current to pasa through a coil of wire. A coil may present a high resistance to the flow of alternating current and practically none to the flow of direct current. A coil of few turns offers little a.c. resistance to a high frequency, but another coil of many turns will effectively retard the flow of the same current. Thus a coil may be tuned simply by removing or adding turns of wire.

Tuning to Resonance

The fundamental principle of a tuned circuit is that it presents a.c. resistance or reactance to all radiofrequency currents except the one to which it is in tune and therefore offers no resistance. This is a state of resonance and is universally created by changing the capacity of a variable condenser. So, periods of resonance to all frequencies within the tuning limits of the coil will be provided, one at a time, simply by turning the dials. Such is the act of tuning a circuit. In a r.f. receiver at least two or three similar circuits are tuned simultaneously, and resonance appears instantly in each of these tuned circuits.

Because simultaneous tuning occurs in each of these circuits, the signal will pass from one circuit to the next as it is amplified in intensity. It goes through the first, seeond and third r.f. stages. Each stage consists of a coil, condenser and tube, and all are absolutely identical. So, if there are three r.f. transformer coils, each will be found to be similar in size and will be wound with the same number of turns of wire.

Size of Coils

The average radio-frequency transformer coil in a t.r.f. receiver will contain from 60 to 75 turns of wire. It is tuned by a variable condenser having a maximum capacity of .00035 to .0005 microfarad (350 to 500 micro-microfarads). Such a combination forms a tuned r.f. circuit that will cover all waves having frequencies ranging from about 500 to 1,500 kilocycles. or 550 to 200 meters. But the large size of this coil prevents it from being tuned to resonance to any signals below 200 meters, its minimum limit.

Matters would be simplified if it were possible to use but one coil of wire in a r.f. transformer to cover all frequencies in the broadcast and short-wave bands. If we make a coil having about 12 turns of wire, it will tune to signals between 15 and 40 meters; if it has 25 turns, it will be resonant between 40 and 80 meters; and, if a still larger coil of 50 turns, it will tune from 80 to 200 meters. We cannot well make a coil that will tune from 15 to 200 meters. Therefore, we cannot replace the r.f. coils that are used for broadcast reception with a coil that will cover the entire band embracing the short waves

Removing Turns of Wire

Simply changing the tuning condenser will not provide reception on the short waves. If you examine your broadcast receiver when it is tuned to a station on approximately 200 meters, or 1,500 kilocycles, you will see that the rotor plates of the variable condensers in the gang unit have become entirely unmeshed from between the stator or stationary plates. The condenser capacity is now at minimum or practically zero. A smaller condenser would reach its zero setting before it tuned down to 200 meters and would fail to cover

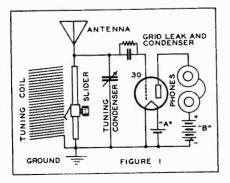
the entire broadcast band. Smaller condensers are used on the shortwave band so tuning will be easier with wider selection between stations.

From the foregoing explanations we find that we must reduce the size of the r.f. coils if they are to respond to the shorter waves. But when we do this we also reduce the ability to tune to the top of the regular broadcast band. Let us. for instance, remove a single turn of wire from each of the r.f. coils in the receiver. Then we will see that the station settings on the dial have been changed one or two points. Now remove several turns more from each The response into the upper coil. portion of the short-wave band becomes more pronounced, but the broadcast band moves up on the dial. Perhaps a station that was received at the top of the broadcast band on No. 100, or 550 Kc., of the dial, according to how these old dials are divided, will move off and no longer be heard, but new stations will appear at the bottom of the dial, below 200 meters, or above 1,500 kilocycles.

Variable Coils

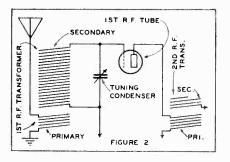
A coil that is continuously variable in inductance will tune to all wave lengths. However, its efficiency is not the kind that makes radio engineers happy. In Figure 1 we see a coil of this type used with a single-

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tube circuit. Such tuning coils were in use several years ago. It is possible actually to reach far above 5,000 meters and below 100 meters with a coil of this type. Several hundred turns of No. 26 enameled wire wound on a small tube. are Α square brass rod fitted with a sliding contact is arranged over the coil, from end to end. By means of the slider single turns of wire can be cut in or out at will. In this manner the inductance of the coil may be varied from minimum at its lower end to maximum at the upper end. This circuit, at least, will prove an interesting experiment in all-wave reception. Its selectivity may prove rather disappointing, however,

This form of tuning coil is impracticable in a multi-tube radio receiver. As we have said before, the usual t.r.f. set contains three r.f. transformer stages. Now, each transformer has two coils-a primary and a secondary. (See Chapter Three of the Beginners' Story of Radio, appearing in the December, 1933, issue of RADEX). The primary is not tuned and consists of only a few turns of wire. The secondary has more turns than the primary and, in addition, is tuned to resonance by a variable condenser shunted across the two ends of the coil. The top terminal of the secondary is attached to the control grid of a r.f. tube. The bottom terminal usually is grounded, but does not interest us. When one or more turns of wire are removed from the secondary coil they must be taken from the top end that connects to the grid contact of the tube. The wire in the primary coil must A radio set having be untouched. three r.f. transformers also will have three variable condensers for tuning these three coils. And there will be three tubes-two are r.f. amplifiers and one is the detector. Any changes that are made must be carried out identically throughout all three stages. The secondary coils of

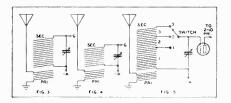


the r.f. transformers are easily identified, usually by tracing back the grid lead from the tubes.

The R. F. Transformers

Figure 2 shows a typical stage of radio-frequency amplification. As indicated, it is the first r.f. stage of the set. This is followed, in most cases, by two more similar stages, making three in all. Now, if we replace the secondary coil of this particular r.f. transformer with a larger coil, or add more turns of wire to one end, as indicated in Figure 3, the longer waves may be tuned in-those above 600 meters. Adding about 50 turns of wire may give a tuning range from about 500 to 1,000 meters instead of the usual 200 to 550-meter limits of the coil.

But, if the secondary coil is replaced with a smaller one, of about 40 turns, as shown in Figure 4, the broadcast-band becomes lost, and only shorter waves, such as 75 to 300 meters, can be received. In this case the receiver now becomes partially useless as a broadcast receiver. If the size of the coil is still reduced to about 25 turns, it will respond approximately to waves only between



50 and 100 meters. All broadcast signals will now be lost, as well as some of the short waves between 100 and 200 meter.

Dividing The Coils

From this explanation the reader will easily grasp the fact that a single coil cannot provide broadcast and all short-wave reception. Modern all-wave receivers do not operate with single coils to cover the entire wave band. At least four separate coils are used, one for each of the wave bands covered by the receiver. Switches are connected together so they may be operated simultaneously to change the circuits from one coil to another. In Figure 5 we see a simple switching arrangement that tunes a single r.f. coil of a broadcast set by dividing it into three sections. Each section covers some particular portion of the wave Section 1 utilizes 25 turns of band. the coil, counting from the bottom terminal next to the primary coil. This will cover a short-wave band from 40 to 100 meters. Section 2 adds about 15 turns to Section 1 and will tune up to about 200 meters. Section 3 adds the remainder of the original coil and provides the usual broadcast reception from 200 to 550 meters.

If the receiver will permit the addition of tiny 3-point switches of this type to each of the three r.f. secondaries, satisfactory short-wave reception and broadcast reception can be obtained without loss of the characteristics for which the set was originally designed. One complete switch assembly must be placed at each coil. The leads from the switch points (1 and 2 of Figure 5) are carefully soldered to bared spots on the proper turns of wire. Extreme care must be exercised to make all leads from each of the switches exactly the same length. And the points where contacts are made must be identical on all three coils.

Any t.r.f. receiver can be turned into a short-wave receiver simply by removing about 20 turns of wire from the tops of each of the r.f. transformer coils. This will provide reception between approximately 100 meters and 350 meters, covering police and amateur and aviation calls, as well as nearly one-half of the broadcast band. Removal of about 30 turns will give short-wave reception between approximately 70 meters and 200 meters. Removal of more turns is not recommended, for attempts to get down into the 20-40 meter band will result in instability The condensers do not of tuning. require changing, but in order to spread the stations over the condenser from end to end and make tuning much easier the capacity can be reduced by removing two rotor plates from each section.

Another method of providing short-wave reception is to remove all three r.f. transformers from the broadcast set and substitute three 4-contact tube sockets. Connect two contacts of each socket to the two end leads of the primary coil that go back into the set after the transformer was removed. Connect the remaining two contacts to the two leads that came to the secondary coil. Plug-in coils, with two windings-primary and secondary, can now be used to cover the entire short-wave band as well as the broadcast band. This system may be impracticable in some of the earlier neutralized receivers. Three similar sets of coils, wound on plug-in forms having four prongs, will be needed. The coils can be made according to the directions given in Chapter Eleven of the Beginners' Story of Radio, published in October, 1934, issue of RADEX.

The Beginner's Story of Radio is only 75c postpaid.

In the Business Office

T HE May-June-July-August edi-tion of the DX Log of the World went to subscribers and newsstands late in April. This will be the last edition of the DX Log. We have decided that it will be to the advantage of our readers to have all the information regarding radio stations of the world in one book instead of two. Beginning with the September issue, we are therefore combining our two publications and the data on the foreign broadcast stations and the short wave stations of the world will hereafter appear in RADEX. Unexpired subscriptions to the DX Log will be applied on subscriptions to RADEX. Be sure to watch for the September RADEX. It will be the greatest compendium of radio information ever published in this or any other country. Due to increased costs caused by the NRA codes as well as to the additional material, the subscription price of RA-DEX will be advanced on September Subscriptions will be received first. at the old rate of \$1.75 per year until the first of September, "A word to the wise is sufficient."

The Iowa Changes

As we stated in cur last issue, recent shifts in the stations of the Iowa Broadcasting System had us all mixed up. We are now in position to straighten this matter out, KRNT. Des Moines, 1320 kcs., 1000 watts daytime and 500 watts night is a basic Columbia outlet. KSO, Des Moines, now on 1430 kcs. 500 watts daytime and 250 watts night, is now a basic NBC Blue outlet. WMT, with studios in both Cedar Rapids and Waterloo, on 600 kcs. with 2500 watts days and 1000 watts nights, is likewise a basic NBC Blue outlet. "All three stations have recently installed RCA high-fidelity transmitters. We are now in the process of moving these transmitters and other equipment to new sites away from

their present industrial-section locations. We are installing at the new transmitter site in Des Moines a 370foot vertical antenna with high-capacity crown, thought to be the most efficient antenna design yet invented. At the new WMT transmitter site nine miles north of Cedar Rapids, we are installing a 400-foot vertical antenna." Thus writes Edward D. Nichols of the IBS.

The New Zealand DX Radio Association of Dunedin very kindly sends us a list of the reallocation of frequencies which will take place in Australia on September first. These will appear in the September issue of this magazine. At first glance it would seem as though almost every station in Australia will change its channel.

We show KOOS, Marshfield, Ore., as a 100-watt station with license for 250 watts daytime. Mr. Walter L. Read. Manager of the station, writes us that they are a daytime station and are therefore a 250 watt station. We are making corrections accordingly, Says Mr. Read further: "We expect to get permission to change to another frequency, either regional or a daytime frequency other than a local channel. We are using a new transmitter with a potential output of 500 watts and hope to make use of this power on a daytime basis in the near future. Naturally we must first get on another frequency and in so doing, it will make it possible for us to schedule more DX programs next fall than are now possible because of the crowded condition of the 1200 channel, with one station (KGFJ) on 24 hours a day. Please list us as 250 watts; hours 8:00 a. m. PST to local sunset."

Station WJR which has been a member of the NBC family "since memory runneth not to the contrary," goes over to the CBS on September 29th, according to advices from William S. Paley, president of Columbia. WJR will replace CKLW



Frances from Florida. Heard from coast to coast each Friday from 9:00 to 10:00 p.m., EDST, is Frances Langford when she stars with Dick Powell in the hour dramatic musical recue. "Hollywood Hotel," over the CBS net. Coming from Lakeland, Fla., to New York three years ago, she doggedly pursued theatrical fame until she found it. Today, as an established radio star, she's making a place for herself in films.

as the CBS outlet in the Detroit area.

From Our Readers

"In regard to the complaint of Mr. Acker of Wadsworth, Ohio, about the amateurs, I am sure it is the set he uses that is causing the disturbance. My set is a t.r.f. 7tube using 2A5's as output with band-spread — completely a homemade set — and I have never had amateurs on top of each other." This suggestion is from Tom Brandon, 9720 106th St., Edmonton, Alta, Tom wants to join a bc DX club.

Bill Forder, 177 Third Ave., W., North Bay, Ont., sends us a newspaper clipping to the effect that CJKL, Kirkland Lake, has been raised from 100 to 1000 watts. There is a possibility of a still further increase. The purpose is to give better service to the "North Country." The change will not take place for two months.

William Ellis of Hughson, Calif., received an up-to-date list of the Chinese stations from Mr. E. Pan, Engineer of XGOD. He forwarded the list to us in time to correct the summer edition of the *DX Log of the World*. Thanks to Messrs. Pan and Ellis, our readers may have an accurate list of the Chinese broadcast stations.

E. J. Strub of Iowa City, Iowa, sends us an old log book of 1923 which he has just run across. It shows about 560 stations in operation even at that early date. Most of these have long since disappeared from the air.

Ray La Rocque, Secretary of the New England Radio Club, Worcester, Mass., notifies all concerned that it seems best to discontinue the activities of that organization permanently.

If any reader has a copy of the schematic diagram of the Lincoln allwave SW-34, H. C. Chestnut, 88 Bailey Ave., Plattsburg, N. Y., would appreciate an opportunity to copy it.

And now Radio, with our full consent, takes its bow and gives way to baseball and golf and tennis and motoring. We wish everyone a happy vacation and "So long until September."

Daylight Saving Time

THE cities and towns which observe daylight saving time are shown below. In the U.S. the fast time continues until the last Sunday in September.

- CONNECTICUT-Bridgeport, Hartford, New Britain, New Haven, Waterbury.
- DELAWARE-Wilmington.
- GEORGIA-Atlanta.
- ILLINOIS—Chicago and suburbs, Cicero, Waukegan.

INDIANA-Elkhart, Fort Wayne, Gary, Hammond, Muncie, Richmond, South Bend.

- MAINE Augusta, Bangor, Portland. MASSACHUSETTS—Observance required by
- MASSACHUSETTS—Observance required by State law.

- MICHIGAN—Practically every community follows Eastern Standard Time all year.
- MISSISSIPPI-Jackson.
- NEW HAMPSHIRE Laconia. Manchester. Portsmouth.
- NEW JERSEY-Asbury Park, Atlantic City. Jersey City. Newark, Red Bank, Trenton.
- NEW YORK—Albany. Brooklyn, Buffalo, Freeport, Jamestown. Long Island City, New York, Plattsburgh, Saranac Lake, Troy. Utica. In Rochester daylight saving was defeated by a referendum but many factories and offices start the day an hour earlier.
- OHIO—Due to demands for daylight saving in cities, towns and villages outside the Eastern Time Zone, the entire state was put on Eastern Standard Time April 3, 1927 by order of the Interstate Commerce Commission.
- PENNSYLVANIA—Allentown, Erie, Johnstown, Lancaster, Philadelphia, Pittsburgh Reading, Scranton,
- RHODE ISLAND-Entire state.
- HAWAII Honolulu and entire territory
- CANADA- Brantford. Ont. (June 30-Aug 31): Chicoutimi, Que. (May 4-Sept. 28): Fort William, Ont.; Halifax, N. S. (June 1-Sept. 29): Hamilton, Ont. (May 4-Sept. 14): Hull, Que.; Kingston, Ont.; Moneton, N. B.; Montreal: Ottawa: Quebec; Regina. Sask.: St. Catharine, Ont.; St. John, N. B.; Toronn:; Yorkton, Sask., (all year).
- EUROPE—Great Britain and Northern Ireland (April 13-Oct. 5); France (March 25-Sept. 29); Belgium (seven months from April 7); The Netherlands (May 15-Oct. 6); Portugal (March 30-Oct. 6).
- SOUTH AMERICA -- Argentina (Oct. 1-March 30),

Order Coming in Cuba

T WILL be a real satisfaction to our readers to know that at last order is due to come out of the chaos in Cuba. We are speaking of conditions in the air and not in politics. Broadcasting in the Island Republic, so far as control is concerned. is still where it was in the United States back in 1928. Our Department of Commerce under the then Secretary, Herbert Hoover, did attempt a sort of extra-legal control but Cuba has had no radio legislation whatever.

The Director of Radio in Cuba, Dr. Nicholas G. Mendoza, writes us frankly of the radio conditions there. From his interesting letter we glean the following facts:

About a year ago a radio act was hurriedly thrown together with portions of it taken from our own law as well as those of Uruguay, Argentina, Mexico and Spain. This law vested all powers in a single person, the Radio Director, and gave no right of appeal. This law existed less than a month and a commission was appointed to draft a new one. This Commission has been at work ever since and has just now submitted its work to the Government.

The broadcasters of Cuba, like those of the United States, opposed any law even where it was for their own good. They were brought out of this state of mind by the simple expedient of letting everybody broadcast who wanted to and at any time they wished. Soon chaos became so intolerable that the broadcasters themselves cried quits and asked for the enactment of controlling legislation. As a result, on February 28th, every one of Havana's thirty stations had to go on the air, for the first time, completely rebuilt with two buffer stages and frequency crystal control. At that time there were only three stations throughout the Island actually operating on their assigned frequencies. All others moved about at pleasure

One station was authorized to use 3500 watts but actually used less than 250. Another with 500 watts never used over 80. Stations with 1000 watts shared time with 250watters while 80-watters were granted full time. Under the direction of Dr. Mendoza, tests were made at each station and the actual averages published. The stations were then evidently licensed for the actual power they were using. This accounted for the odd figures in the power rating at which we poked a little fun in the April issue. It seems to have been a very sensible procedure, however, and much better than to license at ratings that did not exist.

No new licenses are now being issued. At the present time 58 applications for short-wave broadcasting licenses are on file.

When we commented rather flippantly on the latest reallocation we assumed it was just another wholesale shift but we are very glad that it appears to be the first step in a real governmental control of radio conditions in Cuba. Chaos in that Island not only interferes with proper radio reception in a great portion of the United States but listeners here delight in many of the Cuban prograns. We pay tribute, therefore, to the men who are bringing order in the air in Cuba.

About My Equipment ••• By OLIVER AMILE*

TY ARTICLE in the May issue of this magazine brought numerous inquiries as to the type of my antenna that I would like to answer here. I use the single strand type, 100 feet long. It is No. 12 double rubber covered with 40 foot lead-in, I attached an insulator to one end and another just 100 feet away with the other 40 feet to the set. I find East-West gives me the best reception. The aerial should not be cut but should be run in one piece direct to the antenna post. My aerial is now six years old, but due to the rubber covering, it is uncorroded and as fresh as the day it was put up.

While an aerial is a necessary part of radio reception, I think the biggest factor is a good receiver. I can receive Australian, South American and European stations on the speaker without either antenna or ground.

I think the Australians are the most interesting stations I hear. I have submitted 132 reports of reception to them. The best time to listen to these stations is from 5:15 a, m, until 6:30-7:30 and even 8:30 a, m, depending upon atmospheric conditions. On March 8th, 1935, VK3ME went on the air Wednesday, Thursday, Friday and Saturday from 5 to 7 a. m. VK3LR is on Monday to Saturday from 3:15 to 7:30 a. m. VK2ME, Sundays, from 1 to 3 a. m. and 5:00-11:30 a. m. All times are EST. Australian stations are glad to verify your reception and send a card.

The most discussed station today is VPD of Suva, Fiji Island. This station operates on two watts and is on the air daily except Sundays from 12:30 to 1:30 a. m. EST. (VPIA is not correct; I have seen a card dated Aug. 5, 1929 and have one of my own dated March 22, 1935 and both cards are the same—VPD). Fiji has a population of 170,000 and owns three beam stations, ship to shore.

*56 City Line Ave., Overbrook, Philadelphia, Pa.

A Lone DXer in Sweden • • • By John S. Bohm,*

I WAS much delighted to have your letter asking for a little article about DXing in Sweden. However 1 think I am not able to write interesting articles good enough for publication. Besides this, my English is not as good as I would like it because I haven't studied for a very long time. However I will do my best.

DX on the broadcast band is not general in Sweden; in fact I am not acquainted with another Swedish DXer. I have had some articles about my experiences published in the Swedish radio papers but I have never heard from people in this country that were interested in the same hobby. Nearly all of my verifications read: "Yours is the first report received from Sweden or "We have never before heard from your country."

DX is at its best here during the winter months, October to January, that is for reception of North Ameri-



John S. Bohm of Sweden

can stations. South Americans are well received during all times of the year, in summer quite as well as in winter. The US stations best received are KOA, KNX, KPO, KSL, KMOX and WIOD. Those are much better than the big East-Coasters like WTIC and WCAU. KOA and KNX are heard with great clarity every night at 01.00-03.00 our time during November and December. In fact at that time, only these two stations are heard; sometimes there is no trace of the other big US stations. Remember that 01.00-03.00 a. m. our time is 4:00-6:00 p. m. Pacific Standard Time when it may be daylight over half the United States.

Sweden seems to be a good location for signals from the stations located on the Pacific Coast. My list of verified US stations includes quite a few low-powered ones. Here is my list of verified stations in North and South America, Asia and Africa: CKAC, CKCK, CRCK, CP4, KDKA. KFDM, KFI, KFXM, KGIR, KIT, KMON, KNX, KOA, KOH, KPO, KSL, KWG, KWK, KWKH, KXL, KYW, LR4. LR5. LR6, LS2, KZRM. KTFI, VAS, WAAB, WABC, WAPI, WBAP, WBBM, WBCM, WBNX, WBT, WBZ, WCAU. WCCO. WCFL. WCSH. WEAF. WEBC, WEEI. WENR, WFBL, WGN, WGY, WHAM, WHAS, WHK, WHP, WIOD, WJAN, WJBW. WJSV. WJZ. WJDX. WKAQ, WKBW. WLS. WLW. WMAS. WMBD. WNAC. WOAL. WOC. WOWO. WPG, WROK. WRVA. WSAI, WSB, WSM, WTAM, WTIC, WWVA. WTJS. XEAW. XEW. XENT, XER, YV1BC, Algiers, Cairo.

I belong to two DX Clubs, the International DXers Alliance and the Universal Radio DX Club, being the only Swedish member of either club. My, present receivers are a six-tube Telefunken superhet and a five-tube Philips Superinductance. They are both very good DX sets. My home is located in middle Sweden about 300 miles from the Arctic Circle—a mountainous district. I am very interested ip collecting postage stamps and will be glad to exchange stamps with American collectors, 73's to all the fellows.

*Box 511, Malung, Sweden,

While many performers have changed their broadcasting technique in the decade in which radio has come of age, Whispering Jack Smith, the soft-voiced baritone, has stuck, with success, to his original crooning methods. Jack started out as a whisperer and the idea hasn't got into the discard, not by any means! He's still a favorite with network listeners the country over and has proved to his own satisfaction that whispering pays. Smith has become famous as a singer, despite the fact that he started his career as a planist.

The New Zealand DX Club

T HOUGH New Zealand is only a tiny country, tucked away on its own in the South Pacific Ocean, it can boast of possessing one of the finest DX clubs in the world—the New Zealand DX Club, Inaugurated in 1930 by the "Radio Record," New Zealand's radio programme weekly, the Club has grown at an amazing rate until it now has a membership of over 1550, including no less than 73 overseas members in all parts of the world.

There are 16 branches of the Club established throughout the country, each with its own secretary and committee to arrange regular meetings, organize various DX competitions, and generally took after the interests of the Club. Every month each branch secretary forwards a report of his branch's activities to headquarters for publication in the Club's official organ, which is now the "N. Z. Radio Times." This magazine, which features technical and practical radio articles as well as DX news, is published monthly,

In all, there must be over thirty trophies, ranging from medals to silver cups, offered for competition among dxers belonging to the various branches, so there is no lack of interest at the monthly meetings. Every dxer's ambition, however, right from the time he logs his first DX station, is to win the New Zealand DX Challenge Cup. This trophy was donated to the Club by headquarters three years ago, and is competed for every six months. The dxer entering the largest log of verified overseas stations operating on the broadcast band has his name inscribed on the Cup, is awarded an engraved silver miniature, and is given the title of DX champion of New Zeland for the succeeding six months.

The trophy has been won seven

times now, and the following winning totals show the intense interest that is taken in the Competition. The Cup was won first with a log of 89 stations. Succeeding totals were:--142, 227, 291, 366, 417, 500, 546, 602. If not a world's record, the last total must come very close to being one. especially when it is remembered that New Zealand is 1200 miles from the nearest continent and 6000 miles from America. One remarkable fact about this contest is the large number of European verifications that are entered. The last winner had no less than 28, and New Zealand is 13,000 miles from Europe.

Life membership for the Club costs only 2/6d, which includes a membership certificate and a neatly designed badge, brightly finished in the Club colours of red, blue and gold, while the annual subscription to the Club's magazine is 10/- per year, post free. DXers in any part of the world are cordially invited to join. Any further particulars can be obtained by writing the Secretary, Box 1680, Wellington New Zealand.

Chatting About S. W.

(Continued from page 21)

records only, they stood by trying to contact W2KO, Flushing, L. I., on a two-way conversation."

"I have a FB veri from VPD, Suva. Fijis, of which I am very proud as they advise me that my report is one of the most complete they have ever received from the US. I am using a Grunow 1151 with Perfect Phone Adapter for weak signals. DX all continents and 35 countries." Thus reads a postcard from G. T. Magee, 2809 South 13th Ave., Birmingham, Ala.

Last Minute News Flashes

The Budapest. Hungary station has advanced its broadcasting schedule an hour. HAS3, 15370 kcs. transmits on Sundays only from 9-10 am., EST. and HAT4, 9125 kcs. works on Sundays only from 6-7 pm, EST. These stations have an attractive new QSL card.

HCJB, "La Voz de Los Andes." Quito, Ecuador has changed over to its summer frequency of 8214 kcs. Reports on reception of this station are especially desired by Mr. Clarence Jones, whose address is Casilla 691, Quito. HCJB is on the air daily from 7:15 to 9:15 pm, and sometimes later.

A new Ecuadorian station being heard daily between 8 and 10 pm is HC2AT at Quayaquil. Their address is Casilla 872, and the frequency. 8400 kcs.

We are pleased we can advise readers that XEBT now verifies correct reports with a very attractive card printed in red and lavender.

Mr. J. G. Leitch. Technical Supervisor of WCAU-W3XAU tells us that W3XAU will be heard an hour later than the time given in our list of 100 Best, due to Eastern Daylight Saving Time taking effect.

The DX Summaries

(Continued from page 14)

Ecs. will increase from 500 to 10,000 watts by November.

"I am coming to the close of another DX season with a log of 237." observes Richard W. Fales, Intervale Ave., Roslyn, N. Y. "I am very proud of KBPS, KFAC, HHK, PP and 10-AK. I would be glad to correspond and will answer all letters."

Nelson D. Harper, 73 Chestnut Street, Geneva. Ohio, has received a very attractive "diploma" from LR5. Buenos Aires, covering his reception of the NNRC special at 4:00 am. January 8th.

From Billie Prater, Wilder, Tenn. "I have received 438 bcb. stations with 108 veries. My radio is an old Atwater Kent 60C (about 1927). My best are KPCB, KGCX, XFX, KGFJ, CMBC, CMBX, WELL, KVI, KGEX and KGFL."

BACK ISSUES AVAILABLE

We have the following back issues of RADEX which we can supply at the price of 25c per copy, five for \$1.00, or ten or more at 171/2 c. No. 28 April, 1929 No. 38 November, 1929 No. 34 December, 1929 No. 41 September, 1930 Getting Rid of Interference Those Bothersome Noises No. 42 October, 1930 High Frequency Interference No. 43 November, 1930 Multiple Speakers No. 44 December, 1930 Adding a Tone Control Wave Trap and Selectivity No. 45 January, 1931 No. 46 February, 1931 Reducing the Effect of Static Grounds and Aerials No. 47 March, 1931 Set Operation and Adjustment Neutralizing Oscillation No. 48 April, 1931 Fighting Static Faults of Superhetrodynes No. 49 May, 1931 No. 50 June, 1931 No. 51 September, 1931 Can Static be Eliminated? Slogans of the Stations No. 52 October, 1931 No. 53 November, 1931 Does Radio Offer Life Work? No. 54 December, 1931 No. 55 January, 1932 Buying and Servicing a New Set No. 56 February, 1932 Tuning Thrills Outside the B. C. Band No. 57 March, 1932 No. 58 April, 1932 Getting Rid of Radio Noises Aerial and Ground Experiments No. 59 May, 1932 Hum and Its Remedy A Long-Wave Converter No. 60 June, 1932 Opinions of Experts on Aerials and Grounds No. 61 September, 1932 Let's Listen to All the Waves No. 62 October, 1932 Verifications are the Heart of DX No. 63 November, 1932 Modern Battery Receivers D. C. No. 64 December, 1932 The Last Word in Battery Sets A. C. Using New Tubes in Place of Old No. 65 January, 1933 Just What are Harmonics? No. 66 February, 1933 Using Phones Short Wave Antennas No. 67 March, 1933 Building Radio into the Home

No. 68 April, 1933 Building a Line Filter No. 69 May, 1933 Building a S. W. Converter Making your own Noise Filter Part 2 No. 70 June, 1933 Building a S. W. Converter Part 2 No. 71 September, 1933 The Midget Receivers No. 72 October, 1933 Importance of Good Ground Static-Reducing Antennas Beginner's Story, Part 1 No. 73 November, 1933 Cleaning up the Old Set Beginner's Story, Part 2 No. 74 December, 1933 Gypping the Radio Buyer Beginner's Story. Part 3 No. 75 January, 1934 Proper Reports Bring Verifications Using Microphones and Phono Pickups Beginner's Story, Part 4 No. 76 February, 1934 Using Microphones and Pickups, Part 2 The Long Wave Stations of the World Beginner's Story, Part 5 No. 77 March, 1934 Aerials and Better Reception Neutralizing and Aligning Beginner's Story, Part 6 No. 78 April, 1934 Neutralizing and Aligning, Part 2 Beginner's Story, Part 7 No. 79 May, 1934 Neutralizing and Aligning, Part 3 How to Tune the Short Waves Beginner's Story, Part 8 No. 80 June, 1934 When Signals Cut Off and On Beginner's Story, Part 9 No. 81 September, 1934 Beginner's Story, Part 10 No. 82 October, 1934 Is Your Antenna 100%? Part I As I See the Short Waves Beginner's Story, Part 11 No. 83 November, 1934 Is Your Antenna 100%? Part 2 Tuning a S. W. Converter Beginner's Story, Part 12 No. 84 December, 1934 Finding Stations on S. W. Dials Analyzing the Midwest Receiver Beginner's Story. Part 13 No. 85 January, 1935 Analyzing the McMurdo Silver Set The Beginner's Story, Part 14 The Short Waves are Thrill Bands No. 86 February, 1935 Analyzing the Skyrider S. W. for New All-Wave Owners Beginner's Story, Part 15 No. 87 March, 1935 Which is the Best Antenna? Analyzing the "Magic Brain" No. 88 April, 1935 Tracking Radio Noise Down Analyzing the Hammarlund Comet-Pro Symbols Used in Short Waves The Radex Press Inc., 705 Hanna Bldg., Cleveland, Ohio

How Many Tubes Make a Radio Set?

PERHAPS most of us have wished to build a radio set having a great array of tubes and unlimited amplification. But when we realized that tube noises and static also would be amplified it appeared that a long impressive row of tubes might not be so good after all. Finally the "Midwest" set with its sixteen tubes appeared, and we thought *that* certainly was a lot of tubes. Then came an eighteen-tube "Imperial Radio Crafters" receiver, and also a Zenith "Stratosphere" set with twentyfive tubes!

But this article is about a new set that has nineteen tubes. It really is an interesting circuit, and the Howard "Grand" receiver is not as complicated at it might sound. Its makers feel that nineteen tubes are needed to do all the things they have decided are required of an ultra-modern radio set.

An All-Wave Set

The Howard "Grand" covers the entire radio broadcasting band. Its top band takes in European and American broadcasts between 390 and 150 kilocycles. The second band covers the standard broadcasts between 1,600 and 540 kilocycles. A third band embraces the amateur, police and aviation signals between 5,500 and 1,600 kilocycles. And the fourth and last band covers foreign and domestic short-wave broadcasts from 18,000 to 5,500 kilocycles.

Selectivity is remarkable, and it makes possible the easy separation of all short-wave stations. A bandspread unit actually spreads any station over a full half-inch of the dial. The signal-to-noise ratio has been increased to a point where the only noise heard is that caused by internal thermal activity within the tubes.

• By B. FRANCIS DASHIELL

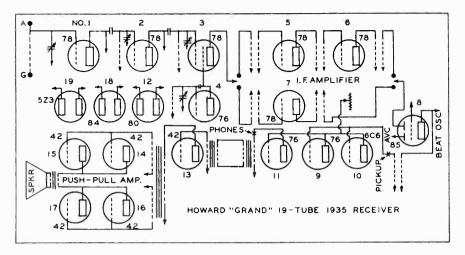
Three Separate Units

Automatic volume control holds up weak, fading, distant signals, and it has been designed so as to have a slight delay in its action. Its operation on the short waves is just as efficient as on the broadcast band. A large Jensen speaker provides high tene fidelity from the lowest notes to those having 7,500 cycles. The output into the speaker is 20 watts of undistorted power. A plug-in jack is provided for those who wish to use headphones and cut out the loud speaker, and it is also possible to plug in a phonograph pickup device.

This circuit is composed of three separate units. There is a 12-tube tuner; a 5-tube power amplifier; and



The Howard "Grand" Receiver



a 2-tube power-pack rectifier and filter. Each chassis is made of cadmium-plated steel. A rectangular dial on the tuner chassis is fully lighted, and the four wave bands are indicated by four lights so the operator will always know the wave band that is being used.

The Nineteen Tubes

Let us look at the nineteen tubes in this circuit, as shown in our diagram. No. 1 is a type 78 short-wave r.f. amplifier, and is used only on the short-wave bands. No. 2 is a 78 straight r. f. amplifier that is used on On the short waves all the bands. these tubes provide a two-stage preamplifier; and a one-stage on the broadcast band. No. 3 is a type 78 first detector, and No. 4 is a type 76 tube. Band changing escillator switches shift the three sets of r.f. coils and the one set of oscillator coils to either of the four wave bands. The four tubes complete the radiofrequency element of the receiver.

The output of the first detector may be fed into either of two separate intermediate-frequency amplifier systems. This is a novel departure in radio design. The channel shown at the top of the diagram utilizes two type 78 tubes—Nos. 5 and 6. This provides two i.f. amplifying stages. The second i.f. channel, just below the first channel, consists of one i.f. tube, a type 78, indicated by No. 7. The first system controls the selectivity of the circuit and gives highgain amplification for short-wave and weak, distant stations; the second system is a low-gain amplifier for high-fidelity reception from nearby broadcasting stations.

Bass-Note Amplification

The output of either i.f. system is fed into the type 85 second detector or mixer tube—No. 8. The diode plates of this tube are used for both detection and automatic volume control. And the triode section becomes a beat oscillator for receiving all unmodulated code signals and heterodyning very weak signals so they can be identified.

Following the second detector is a type 76 tube—No. 9. It is the first audio-frequency amplifier. Then a type 6C6 tube, No. 10, operates parallel to No. 9, as a bass-note amplifier. A tone-control switch regulates this tube and provides low-frequency amplification when desired. The output of this combined stage is fed to the second a.f. tube, a type 76—No. 11. A volume control is placed at this point. These tubes complete the tuner chassis, with the exception of a type 80 full-wave rectifier (No. 12) that furnishes power for the other eleven tubes.

The Power Amplifier

The power amplifier has five type 42 tubes—Nos. 13, 14, 15, 16 and 17. One—No. 13, is used as a driver, and the remaining four operate in a parallel push-pull system. These tubes operate as a Class A Prime amplifier. A potentiometer is employed in this circuit as a hum balancer, and it must be adjusted by ear to a point where no hum can be heard.

The separate power unit utilizes a type 5Z3 and type 6Z4 or 84 rectifier. These are Nos. 18 and 19. This unit supplies the power required for the speaker fields and the tubes in the power amplifier. The 5Z3 furnishes high voltage and has its own filter system, while type 84 also has a filter system and provides biasing voltage for the grids of the type 42 power tubes.

THE MONTH'S CHANGES

NEW

		NEW
850	TIEP	San Jose, C. R.
930	TIRH	San Jose, C. R.
1000	TIGH	San Jose, C. R.
1050	TIFA	San Jose, C. R.
1100	TIRC	San Jose, C. R.
1200		High Point, N. C.
1310		Lafayette, La.
1370	KAST	Astoria, Ore.
1441	TIFS	Cartago, C. R.
		DELETE
550	TISO	San Jose, C. R.
714	TIFB	San Jose, C. R.
800	TIGP	San Jose, C. R.
835	TIVL	San Jose, C. R.
	TICR	San Jose, C. R.
	TIRCA	San Jose, C. R.
	KWFV	Hilo, Hawaii
1310	KFPM	Greenville, Texas
		FREQUENCIES
706	RDN	San Salvador, E. S., from 680
890	WILL	Urbana, Ill., from 580
1210	WCBS	Springfield, Ill., from 1420
1430	KSO	Des Moines, Iowa, from 1320
		POWER
560	KWTO	Springfield, Mo., 1000 to 5000
890	WMMN	Fairmont, W. Va., 250 to 500
1200	KOOS	Marshfield, Ore., 100 to 250
		CALLS
1210	KVSO	Ardmore, Okla., from KIUO

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The Frequency Allocation

We PRESENT herewith the second diagram showing the division of the radio spectrum. The first appeared in our May issue and others will appear in later editions.

For this excellent picture of the radio bands, we are indebted to Radio Retailing, the publication of the dealer and serviceman.

For key to symbols see May issue.

A New All-Wave Tuning Coupler



F OR the approach of summer with its increased static, the Muter Company, 1255 South Michigan Ave., Chicago, presents a new allwave tuning coupler to meet the demand for an efficient yet inexpensive unit to match up any radio set with a doublet antenna system.

With this coupler it is not necessary to purchase a complete doublet antenna. Instructions accompanying the device permit the home-construction of an inexpensive doublet using insulators and wire such as may be found in any radio store. The Muter coupler is said to be equally efficient on both the sw. bands and the bcb. Changeover from sw. to bc. is accomplished instantly by means of a simple switching arrangement.

ANALYZING Some Radio Troubles

HAVE a Clarion 5-tube model 510 receiver. Once in a while the volume dies out completely, and the only way I can make the sound come back is to tap the grid cap on the 58 tube. After a while it again quits. I have had it to a shop and it only worked two days before it started its old tricks again. Can you help me?

It appears to us that some highvalue resistor, such as is used in the control-grid circuits, has become defective. At these times it intermittently opens or short circuits. Quite often the coupling condensers in the audio system will be found responsible for trouble such as you mention. The fact that you can restore the action temporarily simply by touching the grid cap with a moistened finger, which improves conductivity, indicates a defective coupling condenser or grid resistor.

An ordinary test and sometimes a precision test, under operating conditions, seldom will disclose such This very likely accounts trouble. for the fact that the shop could not remedy the trouble. We recommend in such cases the replacement of the several grid resistors and coupling condensers of the audio system with new units having the same electrical values but slightly higher power ratings. Although you may renew one or more perfectly good units, the cost is slight and the trouble in this way can be reached without hours of tedious testing.

Image Frequencies

I have a Midwest five-tube set. It tunes to the usual broadcast band and also the 19 to 54- meter wave band. A repeating of signals is found on almost the whole 40-meter amateur band, as well as on all short-wave stations. I get a station on its regular point on the dial and then it reappears at a spot about 10 points away, and just as loud. This applies only on the short-wave band. Can you explain why this is?

These image frequencies are due combinations of the incoming to carrier frequency with the oscillator frequency which produce an intermediate frequency to which the i. f. amplifier happens to be tuned. For example, if you are receiving a carrier wave of 10,000 kilocycles or 10 megacycles, the oscillator in your receiver will be producing a continuous wave of 10,465 kilocycles when we assume the i.f. amplifier to be peaked at 465 kilocycles-a standard. Now. if the receiver is tuned to a point on the dial corresponding to a signal of 9,070 kilocycles, the oscillator will be producing this frequency plus the i.f., which is 465 kilocycles, totaling 9,535 This differs with our killocycles. original 10,000 kilocycle station wave by 465 kilocycles, and since the signal is not weakened by the previous tuning units, it reaches the first detector with sufficient energy to reproduce a signal that passes through the 465 kilocycle



channel of the i.f. amplifier. Dozens of such combinatons can be calculated, and actual stations will be found broadcasting on these predetermined frequencies.

This condition is hard to remedy in certain receivers that are not fitted with preselector circuits. The design of the r. f. system must be revised. This, of course, is expensive and impracticable. Ordinarily radio engineers look upon the reception of image frequencies as something beyond the scope of small and popular makes of radio sets.

Intermittent Reception

I have a 9-tube Rogers-Magestic, 1931 model. When listening to a station. either local or distant, it will suddenly reduce volume to a mere whisper behind a low buzz. This will continue for an indefinite time and just as suddenly bang back to normal, the whole process repeating at irregular intervals.

Intermittent reception is by far the most baffling trouble to be experienced by servicemen. No definite statement can be made regarding the exact source of such trouble as it is generally necessary to make extensive tests of the entire receiver both as to the external wiring such as antenna, power cord, etc.; and surface inspection of the receiver, including shielding as well as the various parts of the r.f. system and the power supply.

Any one of a great many highvalue resistors and by-pass condensers may short-circuit or break open and thus account for this sort of The problem becomes introuble. creasingly difficult as the serviceman must wait sometimes many hours before this condition will occur. Ιt does no good to test each part separately for when the set is operating normally all parts show perfect condition. A careful check of the parts mentioned or complete replacement will correct your trouble.

Neutralizing Stewart-Warner 901

I own a model 901 Stewart-Warner receiver. I think it needs realignment and would like your advice how to go about this operation: also, how can 1 add automatic volume control; and what tube changes do you advise. What is a good aerial system to use with this sct?

7

This receiver is a tuned radio-frequency circuit using three r.f. stages ahead of the detector. The tubes are triodes and, therefore, neutralization is necessary. There are three neutralizing condensers associated with the grid circuits of the r.f. tubes which must be adjusted in accordance with standard practice.

Turn on the receiver and remove the first r.f. tube. Place a small section of a soft-drink straw over one of the heater prongs and replace the tub in its socket again. Tune in a low powered station somewhere above 1,000 kcs., and reduce the volume until the station is just æudible. Now, adjust the first neutralizing condenser (that is the one having one terminal attached to the grid lead of the first r.f. tube) for minimum signal response. Increase the volume and again find the minimum or null point in the range of the neutralizing condenser. Repeat this procedure for the other two r.f. tubes one at a time in their proper order. and full neutralization will be obtained.

Then, tune the set to 1,400 kcs., and adjust each trimmer condenser for maximum signal, starting from the detector in this case, and repeat for all tubes at 1,000 and 600 kcs. This gives proper alignment of the r.f. stages.

This circuit is not adapted to automatic volume control. The tubes are of the triode type and not of the vario-mu type, such as would be needed for a.v.c. If you wish to use newer types of tubes, such as the 35, 51, or 58 types, you will find it necessary to replace the entire r.f. circuit. This in turn would require certain fundamental changes in the power supply. The entire job would be expensive, complicated, and not justified by the results obtained.

Any of the standard shielded-lead and doublet antenna systems will be suitable for the elimination of manmade static in this set. Previous lssues of RADEX have covered the subject very thoroughly.

Philco Transitone

I should like to use newer tubes in my Philco model 5 Transitone auto receiver. Is the chicken-wire antenna provided with most cars the best antenna to use with this set? My set at times reproduces noises somewhat similar to the code signals. They are very loud and cover the entire broadcast band. How can you account for this?

There are no later type tubes than those used in the model 5 Transitone auto receiver made by Philco. No more highly perfected equivalents or tubes of later design for these purposes are now on the market. For this reason we cannot make the recommendations you desire.

The so-called chicken-wire antenna makes about the best antenna that it is possible to have without spoiling the appearance of the car by erecting antenna wires over the top and to the ends.

The noise to which you refer may often be traced to an intermittent howl or oscillation due usually to a faulty coupling condenser in the audio stage. Reduced emission of one of the tubes in the audio system will also have this effect. It is advisable to check both of these conditions.

Bad Filter Condenser

I have a Sparton model 931 set that has irregular volume. Sometimes the signals are loud, then weak, and frequently stop abruptly. I am using a Tobe filterizer in the antenna, and the trouble occurs when this particular antenna is in use. It does not occur when the old, straight antenna is connected. The volume comes back if I snap a switch somewheres in the house. I think the Filterizer antenna is erected as it should be.

We feel that your trouble is caused by some form of severe leakage in the filterizer, such as a condenser. Any electrical impact produced by one of the three things mentioned in your letter will temporarily heal the condenser only to allow it to break down again when conditions The cure, of course, is the permit. replacement of the defective condenser or entire antenna or receiver filterizer unit. Or the units can be returned to the makers for examination and repair. You will find the Tobe Deutschmann Corporation reliable and willing in this respect.

Crosley Voltages

Can you help me out with my Crosley Super Buddy-Boy model 122 receiver? I have found that the voltages on the plates are only around 20 while the voltages on the screens are about 100. I cannot find out anything about this set and what its various voltages should be.

The Crosley model 122 is a 7-tube superheterodyne set. The a.c. voltages for the tube filaments, with the exception of the rectifier should vary from 2.3 to 2.5. That for the rectifier is 4.6 to 5.0 volts. The d.c. plate voltages of the first r.f. and the i.f. amplifiers should be 170 to 200 volts; for the oscillator 28 to 38 volts; for the first and second detectors, 185 to 215 volts; for the output from the power tube, 260 to 300 volts; and the rectifier a.c. voltage to each plate is 280 to 320.

The screen voltages for the first r.f. and i.f. amplifiers should be from 45 to 55; for the first and second detectors, 60 to 80 volts; for the oscillator, 80 to 100 volts; and for the output power tube, 260 to 300 volts.

The control-grid biasing voltages should be, for the r.f. and i.f. amplifiers, 1.5 to 2.5 volts; the first detector, 6.0 to 8.0 volts; for the second detector, 8.0 to 10.0 volts; and for the power tube, 18.0 to 22.0 volts.

These voltage limits are to be measured with speaker connected, volume control on full, and line voltage proper at about 117 volts. Measure plate and screen voltages with a high-resistance d.c. voltmeter.

Lightning Arrester On RCA

My RCA all-wave antenna has no provision for a lightning arrester, although I have been told that one is used with this system. Where is the arrester connected and how can I get one?

The RCA antenna all-wave system has provision for lightning arresters. but this device does not come as regular equipment. It is purchased ex-There are two lightning arresttra. ers which are fastened on the outside of the building at a point where the antenna lead-in is attached. The end of the transmission line connects to the arresters and then continues indoors through an insulating tube to the receiver. An outside ground wire then runs to the arresters. If lightning should hit, or severe induction occur, the arresters carry off the discharge into the earth without damage to the receiver.

Shadow Tuning

If possible, I should like to add a shadow or visual tuning device to my old Graybar model 770 receiver. Please tell me where I can get the device and how to connect it in the set.

Shadow tuning calls for a certain device used on some receivers. It is a tiny vane that moves so as to widen or narrow a slit through which light passes. The width of the shadow indicates that the circuit is tuned to resonance. Also, a meter with indicating hand that swings to the extreme end to indicate complete tuning, is used for the purpose. These devices may be procured from most radio supply houses, such as the Radolek Co., and the Allied Radio Co., of Chicago, or the Wholesale Radio Co., of New York.

Connect the meter or device in series with the wire leading from the bottom of the coil connected in the plate circuit of the first 24 tube in the radio-frequency amplifying stage of the Graybar model 770 receiver. Simply cut this wire and insert the resonance meter.

Summer Noises

WITH the coming of warm weather, the increased use of electric fans and refrigerators will bring with it new problems in the way of radio interference. Although the radio and electrical industries are making a concerted drive against interference-creating devices and many municipalities have passed anti-noise ordinances, there are still countless numbers of sparking motors to contend with.

The most effective attack on the noise problem is to isolate the offending machine and to equip it with a simple filter consisting merely of two fixed condensers in series, with the outer connections across the motor brushes and the center connection grounded to the motor frame. However, in the majority of cases encountered by radio set owners and service men, the source of the interference cannot be readily located.

The only possible cure in cases of this kind is the use of an interference filter consisting of both by-pass condensers and radio-frequency chokes, according to William Bailey, of the Cornell-Dubilier Corporation, who has had considerable experience with the noise problem. This filter is connected to the line cord of the receiver, and in nine cases out of ten it is very effective because it prevents the noise from entering the receiver through the power line, which is its usual carrier.

Of course, no line filter will eliminate or even reduce noise that is picked up by the aerial or its lead-in.

How to Tune-in the Europeans

T IS far more difficult for America to get English stations than it is for England and Europe to get American stations, for the latter come in best after the European stations have closed down for the night, so we have no interference from nearby stations. On the other hand the European stations, which are so dear to the American DX'er close down before the American local stations, and so all the work of the American DX fan must be done with the locals working or in the early hours of the morning, as far as b.c.b. reception is concerned.

The best thing to do then, in that is to investigate all the case, heterodyne whistles. Much can be gained by finding out the source of heterodyne whistles on a station the location of which is already known. Very often, of course, they will be caused by a station on the same continent as the local, but quite often, as a background to the strong signal a feeble "Foreigner" emanatfrom Europe can be heard. ing Thus the DX'er's motto should be "Suspect All Heterodynes."

An easier and more reliable way of getting the Europeans, however, is to wait until the early-morning European stations come on the air. The following stations come on the

A line filter is the easiest thing to try first, as it can be plugged into service in a few seconds. If the noise continues, it is not reaching the set through the electric wires, and the erection of an antenna of the noisereducing type should be considered. Radio dealers sell line filters on a trial basis, as they know conditions vary a great deal. A filter may be 100 per cent effective in one house and not effective at all in another.

• • • By D. C. STENT*

air at 00.30 EDST: Berlin, Breslau, Hamburg, Moscow, and sometimes a few other German stations. At 01./0 the following stations commence transmitting: Cologne. Ko-Deutchlandsender, Frankfurt, nigsberg, Leipsig, Munich, and Stuttgart. Prague commences at 01.45, and Poste Parisien, a station well heard in the USA, starts transmitting at 04.00 EDST, as do Radio Normandie and many other European stations. By 05.00 EDST nearly all the European stations are transmitting, but in USA they will be fading out, as a great part of the journey is in daylight. The best time to listen, then, is between midnight and five AM, EDST.

A few hints as to identification, etc., might be useful.

All the German stations announce as Reichsender Leipsig, Reichsender Stuttgart, etc., but it should be borne in mind that Munich is pronounced in German as Munchen.

Radio Paris announces: "Ici le Poste Nationale, Radio Paris."

Prague announces: "Allo, Praha, Polski Radio."

The Northern group of Italian stations announce as: Abbiamo trasmezzo, Radio Torino, (Turin) Milano (Milan) etc.

The British stations are fairly easy to identify, on account of the accent, intonation, etc., but it should be remembered that several alternative programmes are transmitted, and the location of the station is not announced. Thus the announcer at London Regional says: "This is the Regional Programme", and the announcer at the Midland Regional "This is the Midland Prosays: gramme" Often the station in one "region" relays the programme of another region, thus we have the Midland Regional station transmitting the Studio Orchestra of the Scottish Regional station. Therefore the Midland Regional announcer will say: "The next part of the Midland programme will be announced from Scotland," and almost immediately will be heard: "This is the Regional programme from Scotland. We have now a programme of light music by the Scottish Studio Orchestra." All this shows that it is impossible to be too careful in identifying the British stations when the programmes and announcements are so interchanged.

It has been wrongly understood in the past that certain stations in Europe have call-letters. This is a fallacy. No. B.C.B. stations in Europe except CT1GL announces any call. letters. The call of Poste Parisien is Poste Parisien, and not PP. Radio Normandie is not RN, and London Regional is not LR. The Italian stations have call-letters, such as Rome, I1RO, Triestre, I1TR, etc., but these are never used.

* "Esperance". High Road, Whetstone, London, N. 20, England.

Singletons and Eliminators

۲ THE listeners listed below hold verifications from the stations given which so far no other reader of this magazine has been able to duplicate. Those at the head of the list have held their positions for several months. Is it possible that they are the only persons in North America who hold verifications from the stations claimed? If you can eliminate any of them by producing a similar verification, notify us and your name will be entered as an Eliminator. Do not send verifications but be sure you can produce them if called upon.

SINGLETONS

- ZTD Durban, South Africa. Claimed by C. E. Lowe, Merced, Calif.
- 2ZP, Wairoa, New Zealand. Claimed by Charles Hesterman, Saskatoon, Sask.

- 2YC, Wellington, N. Z. Claimed by Harold Alexson, Vancouver, B. C.
- JOBG, Maebashi, Japan. Claimed by R. W. Schofield, Missoula, Mont.
- VUG, Dehi, India. Claimed by Robert Slosson, Milwaukee, Wis.
- CX18, Montevideo, Uruguay. Claimed by Marvin D. Dixon, Shelby, N. C.
- LR8, Buenos Aires, Argentina. Claimed by Murray D. Bryce, Royal Oak, B. C.
- 2XN, Lismore, Australia. Claimed by Roy N. Licari, Allenwood, N. J.
- KZ1B, Manila, P. 1. Claimed by James Blase, Bronx. N. Y.
- The following are submitted as singletons by John A. Shanks, Russellville, Tenn.: 4ZW, 4BK, 5AD, and 7ZL.
- 2GN, Goulburn, Ausl. Claimed by Guy B. Welsh, Reynoldsville, Pa.
- The following are claimed by Kenneth Page, Silver Creek, N. Y.: VPN, VCN.
- 4TO, Townsville, Ausl., by Joel Armantrout, Fitzgerald, Ga.
- The following are claimed by Warren C. Reichardt, Reading, Mass.: Radio Vitus, Gleiwitz, Halmstad, Falun, Cracow, EAJ-15, Kosice.
- 11PA, Palermo. Italy, claimed by Robert Osborne. Stellarton, N. S.
- Brussels, Belgium, claimed by Don Reynolds, Newburgh, N. Y.
- 4AY, Ayr, Australia, by Wm. H. Ansell, Regina, Sask. 3KZ, Melbourne, Ausl., by Evan B. Roberts, Danvers, Mass
- 3TR, Sale; 2WL, Woolongong, 4R() Rockhampton, and Riga, Latvia, by Chas. H. Hesterman, Saskatoon, Sask.

ELIMINATORS

- 2CA claimed by W. Pollard, eliminated by Warren C. Reichardt, Reading, Mass.
- 2HD and 2CO claimed by Kenneth Page, eliminated by Warren C. Reichardt and John A. Shanks, Russellville, Tenn.
- 4RK claimed by Joel Armantrout, eliminated by Whitney Smith, Pontlac, Mich.
- JQAK, Dairen, Mich., claimed by Chas. Hestermann, eliminated by Clyde E. Lowe, Merced, Calif.
- OER3, Vienna, claimed by Lincoln A. Wood, eliminated by Chas. Hestermann, Saskatoon, Sask, Previously Eliminated

Previously Eliminated

- 2KY, 3KZ, SBH, SBA, HAL, 4BC, Trieste, JOLK, 3BO and 6PR.
- Langenburg, OKB, 5CL, 3AR, 2FC, 2KO, 3LO, 7UV, Copenhagen CT1GL, 3HA, 2BL, 2UE, 5CK,

Advise the Editor

C OMBINING the DX Log of the World with RADEX, beginning with the September issue, will require a reallotment of space among the various features of this magazine.

The data as shown in pages 45 to 80 inclusive of this issue, will be continued and expanded. But we would like to know the wishes of our readers as to the other features.

On page 79 we print a blank whereby you can indicate those features which you would like to see continued and improved. Will you not fill out this blank and mail it to the Editor?

WHAT'S ON THE AIR TONIGHT

Fill in calls and dial numbers for those stations through which you best receive the three chains. You can then turn quickly to the one that has the feature you want.

OLUMBI	A (C)
Call	Dial

ATIONA	., maa (m
Call	Dial

NATIONAL, Blue (B)				
Call	Dial			

TIME: ED Eastern Daylight; E Eastern; C Central; M Mountain For Pacific Time subtract one hour from Mountain.

RADEX is the only publication listing stations in alphabetical order for your convenience.

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

MONDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C --- Buck Rogers; 25th Century CKLW WAAB WABC WBNS WCAO WCAU WFBL WHEC WHK WJAS WJSV WKBW WKRC WOKO

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B — Lowell Thomas

CFCF CRCT KDKA WBAL WBZ WBZA WFLA WGAR WHAM WIOD WJR WJZ WLW WMAL WJAX WJR WRVA WSYR

EO-7:00 p.m., E-6:00, C-5:00, M-4:00 B -- Amos 'n' Andy

CRCT KDKA WBAL WBZ WBZA WFLA WIOD WJZ WMAL WPTF WRVA

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 B --- Tony and Gus

KDKA WBAL WBZ WBZA WCKY WENR WEIL WELA WHAM WIOD WIS WJAX WJZ WMAL WPTF WSOC WSYR WTAR WWNC

R -- Stories of Black Chamber

KYW WBEN WCAE WCSH WEAF WEEI WGY WJAR WMAQ WRC WEAL WTAG WTAM WTIC

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C --- The O'Neills

WABC WCAO WCAU WDRC WFBL WGR WHEC WHP WJAS WJSV WMAS WOKO WORC WWVA

- Buck Rogers; 25th Century KMBC KMOX KRLD KTRH KTSA WBBM WBT WCCO WDSU WFBM WGST WHAS WMBG

- Red Davis; Orama в.

KDKA KOIL KPRC KSO KSTP KTBS KWCR KWK WAVE WBAL WBZ WBZA WEBC WENR WFLA WHAM WIBA WIOD WIS WJAX WJDX WJZ WKY WMAL WMC WPTF WREN WRVA WSB WSM WSMB WSYR WTAR WWNC

R --- Easy Aces

KSO KYW WCAE WCSH WEAF WGY WMAQ WOW WRC WSAI WTAG WTAM WWJ

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 Boake Carter for Philco CKLW KMBC KMOX WABC WBBM WBT WCAO WCAU WCCO WGR WHAS WHK WJAS WJSV WNAC R-

– Dangerous Paradise; Drama KDKA KOIL KSO KTBS KVOO KWCR KWK WBAL WBZ WBZA WENR WFAA WGAR WHAM WJR WMAL WOAI WREN WJZ WKY WSB WSM WSMB WSYR

R - Uncle Ezra

KYW WBEN WCAE WCSH WDAF WEAF WEEI WGY WJAR WMAQ WOW WRC WSAI WTAG WTAM

EO-8:00 p.m., E-7:00, C-6:00, M-5:00

R --- Richard Himber and Orchestra KSD KTBS KVOO WBAP KPRC WBEN WCAE WCSH WDAF WEAF WEEI WFAA WGY WHO WJAR WKY WMAQ WOAI WOC WOW WRC WSAI WTAG WTAM WTIC

C — Variety Show CKLW KDB KERN KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KSL KWG WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WSPD

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 **R** — Voice of Firestone

CFCF CRCT KFYR KPRC KSD KSTP KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKBF WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 R - A & P Gypsies

KSD WBEN WCAE WCSH WDAF WEAF WEEI WGY WHO WJAR WLIT WMAQ WOC WOW WTAG WTAM WTIC WWJ

B - Sinclair Greater Minstrels

KDKA KFI KFSD KFYR KOA KOIL KPO KPRC KSO KSTP KTAR KTBS KTHS KVOO KWK WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR WJZ WKY WLS WLW WMC WOAI WPTF WREN WRVA WSB WSM WSMB WSOC WTAR WTMJ WWNC

C - Six-Gun Justice; Drama

KDB KGB KHJ KRNT WABC WDAE WDOD WGST WIBX WJSV WEBW WLAC WOC WORC WTOC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30

C - The Big Show CKAC CKLW KFAB KLZ KMBC KMOX KSL WABC WADC WHBM WBNS WBT WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WHAS WHK WICC WJAS WJSV WKBW WKRC WNAC WOKO WOKO WOWO WREC WSPD

- Otto Harbach Musical Show R -

KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTBS KVOO WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLIT WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNC

B --- Princess Pat Players

KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WCKY WENR WGAR WHAM WJR WJZ WMAL WREN WSYR

ED-10:00 p.m., E-9:00, C-8:00, M-7:00

- Wayne King and Orchestra C. CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLD KSL KVI KWG WAAB WABC WADC WBBM WBNS WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WHAS WIIK WIBW WJAS WJSV WKRW WKRC WOKO WSPD

R --- Contented Program

KDYL KFI KFYR CECE CRCT KGO KGW KHQ KOA KOMO KPRC KSD KSTP WBEN WCAE WCSH NOL NOIP WEEN WEAE WEEL WEAE WDAF WEAF WEBC WEEL WFAA WFBR WGY WHO WJAR WKY WLIT WLW WMAQ WMC WOAI WOC WOW WRC WSB WSM WTAG WTAM WTIC WTMJ WWJ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 Lilac Time; Night Singer C

CKLW KDB KERN KFBK KFPY

MONDAY (Continued)

KFRC KGB KHJ KLZ KMJ KMOX KOIN KOL KRLD KSL KVI WABC WBBM WCAO WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC

- Max Baer—Drama

KFI KFSD KFYR KGHL KGIR KGW KHQ KOMO KPO KSD KTAR KTBS KTHS KVOO KYW WAVE WCAE WCSH WDAF WDAY WEAF WEBC WFLA WGY WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WMC WOW WPTF WRC WRVA WSAI WSMB WSOC WTAG WTAM WTAR WWJ WWNC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B - Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOIL KOMO KPO KPRC KSTP KTHS KWK WCKY WENR WGAR WHAM WJR WKY WOAI WREN WSM WSMB WSYR WTM1

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 B - Tony and Gus

KDYL KFI KFSD KFYR KGHL KGIR KGW KHQ KOA KOIL KOMO KPO KSO KSTP KTAR KTBS KTHS KWK WAPI WAVE WDAY WEBC WFAA WGAR WIBA WIRE WJDX WJR WMT WOAI WREN WSM WSMB WTMJ

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 - Voice of Firestone R

KDYL KFI KFSD KGHL KGIR KGU+KGW KHQ KOA KOMO KPO KTAR

TUESDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C - Buck Rogers, See Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B - Lowell Thomas, See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 B - Ames 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 Tony and Gus, See Monday В-

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C — Buck Rogers, See Monday

R - Easy Aces. See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 C - Boake Carter, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C — Frank Munn; Gustav Haenschen CKLW KMBC KMOX WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO

- Leo Reisman and Orchestra R. KFYR KPRC KSD KSTP KTBS KVOO WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI WFLA WGY WIBA WIOD WIS WJAR WJAX WJDX WKBF WKY WMAQ WMC WOC WOW WPTF WRC WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

B --- Eno Crime Clues

KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WJR WLS WLW WMAL WREN WJZ WSYR

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Abe Lyman; Vivienne Segal

CFRB CKLW KMBC KMOX WABC WADC WBBM WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WOWO WSPD

R --- Wayne King and Orchestra

KPRC KSD KSTP WBEN WCAE WCSH WDAF WEAF WEEI WFAA WFI WGY WHO WJAR WKBF WKY WMAQ WMC WOAI WOC WOW WRC WSAI WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ Edgar Guest; Welcome Valley KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WFIL WGAR WHAM WJR WJZ WLS WMAL WMT WREN WSYR

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C - Bing Crosby

CKLW KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLD KSL KTUL KVI KWG WABC WADC WBBM WBT WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WGST WHAS WHK WJAS WJSV WNAC WKBW WKRC WOKO WOWO WREC WSPD

- Ben Bernie and Orchestra R-

KFYR KOA KPRC KSD KSTP KTBS WBAP WBEN WCAE WCSH WDAY WEAF WEEI WFBR WFI WGY WJAR WJDX WKY WMAQ WMC WOAI WOW WRC WSB WTAG WTAM WTIC WTMJ WWJ B - Red Trails; Drama

KDKA KDYL KFI KGW KHO KOA KOIL KPO KSO KWCR KWK WBAL WBZ WBZA WCKY WFI WHAM WJR WJZ WKBF WLS WMAL WREN WSYR

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 C — Phil Spitalny's Orchestra

CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KMBC KMJ KMOX KOIN KOL KSL KVI KWG WABC WADC WBBM WCAO WCAU WCCO WDRC WEAN WFBM WHAS WHE WJAS WJSV WEBW WKRC WMAS WNAC WORO WOWO WSPD

R - Ed Wynn; Eddie Duchin

KDYL KEI KESD KEYR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KVOO WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKBF WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTIC WTMJ WWJ WWNC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C - Glen Gray; Walter O'Keefe

CKLW KFAB KFH KLRA KMBC KMOX KOMA KRLD KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGST WHEC WHK WHP WIBW WICC WISN WJAS WJSV WKRC WEBW WERC WLBZ WMAS WKBN WLAC WLBW WMBD WMBG WMBR WMT WNAC WNAX WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC

R - Palmolive Beauty Box

CFCF CRCT KDYL KFI KFSD KFYR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KVOO WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKBF WKY WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTMJ WWJ WWNC

B - Fibber McGee and Molly

KDKA KOIL KSO WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WJR WJZ WMAL WMT WREN WSYR

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C - Fray and Braggiotti

CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMJ KMOX KOIN KOL KRLD KRNT KSL KTRH KTSA KTUL KVI KWG WABC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDRC WDSU WFBL WFBM WGR WGST WHAS WHK WJAS WJSV WKRC WLAC WMBG WMBR WNAC WNAX WOC WOKO WQAM WREC

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 C - Advisory Council

CKLW KFH KGB KGKO CKAC KILJ KLRA KLZ KMBC KOH KOL KOMA KRLD KTRH KTSA KVI KVOR WABC WADC WALA WBBM WBIG WBNS WBT WCAO WCCO WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFEA WGR WGST WHAS WHEC WHK WHP WIBX WICC WEBN WERC WLAC WEBZ WMAS WMBG WMBR WNOX WOC WOKO WORC WPG WQAM WREC WSBT WSJS WSMK WSPD WTOC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B - Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C — Dance Orchestra

CKAC CKLW KDB KFH KGKO KLRA KLZ KOH KOMA KRLD KTRH KTSA KVOR KWKH WABC WACO WADC WALA WBNS WBRC WBT WCAO WDAE WDBJ WDBO WDNC WDRC WDSU WEAN WFBL WFEA WGLC WHEC WHK WHP WIBW WJAS WJSV WKBW WKRC WLAC WLBW WLBZ WMAS WMBG WMBR WMT WNAC WNAX WNOX WOKO WORC WPG WQAM WSBT WSFA WSJS WSPD WTOC WWVA B — Tony and Gus, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Dance Orchestra

CFRB CKAC CKLW KFH KGKO KLRA KLZ KMBC KOH KOMA KRLD KSCJ KTRH KTSA KVOR KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFEA WHEC WHK WHP WIBW WICC WISN WJAS WJSV WKBW WKRC WLAC WLBW WLBZ WMAS WMBD WMBR WMT WNAC WNAX WNOX WORC WPG WQAM WSBT WSFA WSJS WSPD WTOC WWVA

R - Leo Reisman and Orchestra KDYL KFI KFSD KGIR KGU KGW KIIQ KOA KOMO KPO KTAR

WEDNESDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C — Buck Rogers, See Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B - Lowell Thomas, See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00

B - Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 R — Black Chamber, See Monday B — Tony and Gus, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C — Buck Rogers, See Monday

B --- Red Davis, See Monday

C — The O'Neill's, See Monday

R - Easy Aces, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 C - Boake Carter, See Monday

B --- Dangerous Paradise, See Monday

R — Uncle Ezra, See Monday ED-8:00 p.m., E-7:00, C-6:00, M-5:00

R — One Man's Family CFCF CRCT KDYL KFI KFYR

KGO KGW KHQ KOA KOMO KPRC KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KVOO WAVE WBAP WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEL WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLIT WMAQ WMC WOAI WOC WOW WPTF WRC WRYA WSAI WSA WSAI WTAG WTAM WTIC WTMJ WWJ

WWNC B — Hal Kemp and Orchestra

KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR'WJZ WLS WLW WMAL WREN WSYR

C — Johnny and His Foursome

CKLW KMBC KMOX KRNT WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WHAS WIIK WJAS WJSV WKBW WKRC WNAC WOKO WOWO WSPD

ED-8:15 p.m., E-7:15. C-6:15. M-5:15 C — World Peace Foundation

CHUK KDB KFBK KFH KFPY KFRC KGB KHJ KLRA KMBC KMOX KOH KOL KRLD KTRII KTSA KTUL KVOR KWG KWKH WABC WACO WADC WALA WBBM WBIG WBRC W5T WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WEAN WFBL WFBM WGR WGST WHAS WHK WJAS WJSV WKRC WMBG WNAC WNOX WOKO WQAM WREC WSJS WSPD WTOC

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Everett Marshall: Victor Arden CKLW KDB KEINK KFBK KFRC KGB KHJ KLZ KMBC KMJ KSL KVI KWG WABC WADC WBBM WBT WCAO WCAU WDRC WDSU WEAN WFBL WFRM WGR WIAS WIBW WJAS WJSV WKRC WLAC WNAC WOKO WOND WSPD

R — Wayne King, See Tuesday

B --- House of Glass; Drama

KDKA KOIL KSO WBAL WBZ WBZA WFIL WFIA WGAR WHAM WIOD WIS WJAX WJZ WLS WMAL WMT WPTF WREN WRVA WSOC WSYR WTAR WWNC ED-9:00 p.m., E-8:00, C-7:00, M-6:00 R — Fred Allen

KPRC KSD KSTF KTBS KVOO WBEN WCAE WCSH WDAF WEAF WEBC WEEI WFBR WGY WIOD WIS WJAR WJAX WKY WLIT WLW WMAQ WMAC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ

B — John Charles Thomas

KDKA KDYL KFI KGW KHQ KOA KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WCKY WENR WGAR WHAM WIRE WJR WJZ WLS WMAL WMT WREN WSYR

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — George and Gracie

CKLW KDB KEEN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KTRH KTSA KVI KWG WABC WCAU WCCO WDRC WDBU WEAN WFBL WFBM WHK WJAS WJSV WKBU WKRC WNAC WOKO WORC WOWO WSPD

R -Guy Lombardo and Orchestra KPRC KSD KTBS KTBS KVOO WAVE WBEN WCAE WCSH WDAF WEAF WEEI WFAA WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKBF WKY WLIT WLW WAAQ WKBF WKY WLIT WLW WATF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WVJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — Howard Barlow, Norman Cordon CFRB CKAC CKLW KDB KFH KGKO KHJ KLRA KLZ KMBC KOH KOMA KRLD KSCJ KTRH KTSA KVOR KWKII WAAB WABC WACO WADC WALA WBBM WBIG WBRC WADC WALA WBBM WBG WDBJ WDBO WDNC WDOD WDRC WDBJ WDBO WDNC WDOD WDRC WDBJ WCAN WFBL WFBM WFEA WGLC WGR WHEL WHF WIEW WICC WISN WJAS WJSV WKRC WLAC WLBW WMAS WMBD WMBR WMT WNOX WOKO WORC WQAM WSBT WSFA WSJS WSPD

R - Ray Noble and Orchestra

KDYL KFI KGW KIQ KOA KOMO KPO KSD KYW WAPI WAYE WBEN WCAE WCSHI WEAF WEEI WFBR WGY WHO WJAR WJDX WKBF WLW WMAQ WMC WOW WRC WSB WSM WSMB WTAG WTAM WTIC WWJ

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C - Dance Orchestra

KLRA WABC WALA WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDDD WDRC WDBU WEAN WFEA WJSV WLAC WLBZ WMBR WNAC WNOX WORC WPG WQAM WSFA WSJS WTOC

B — Tony and Gus, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Dance Orchestra

KLRA WARC WALA WBRC WBT WCAO WCAU WDBJ WDBO WDNC WDDD WDRC WDSU WEAN WFEA WICC WISN WJSV WLAC WLBZ WMAS WMBR WNAC WNOX WORC WPG WQAM WSFA WSJS WTOC

C --- Voice of Experience

KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMJ KOIN KOL KSL KVI KWG

B — House of Glass, Drama

KDYL KFI KFYR KGW KIIQ KOA KOMO KPO KPRC KTBS KTHS WAPI WAVE WDAY WEBC WFAA WIBA WIRE WJDX WKY WMC WOAI WSB WSM WSMB WTMJ

ED-12:00p.m.,E-11:00,C-10:00,M-9:00 R — Fred Allen

KDYL KFI KGO KGW KHQ KOA KOMO

THURSDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C -- Buck Rogers, See Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B — Lowell Thomas. See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 B — Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15

B - Tony and Gus, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C --- Buck Regers, See Monday

R — Molle Minstrels

KSD KYW WBEN WCSH WDAF WEAF WGY WHO WJAR WMAQ WRC WSAI WTAG WTAM WWJ

B - Floyd Gibbons

WDZA WENR WFIL WSOL WBZ WBZA WENR WFIL WFLA WHAM WIOD WIS WJAX WJZ WMAL WMT WPTF WREN WSOC WSYR WTAR WWNC

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 C - Boake Carter, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R — Rudy Vallee and Orchestra

R - Rudy Vallee and Orchestra CFCF CRCT KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KVOO WAPI WBAP WBEN WCAE WCSH WDAY WEAF WEBC WEEI WFBR WFI WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WAG WOAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WWJ

C --- Kate Smith

CKLW KDB KERN KFAB KFBK KFFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KSL KVI KWG WABC WADC WBBM WCAU WCAU WCCO WDRC WEAN WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC WMAS WNAC WOKO WSPD

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Freddie Rich Entertains

CKLW KMBC KMOX WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WOWO WSPD

ED-9:00 p.m., E-8:00, C-7:00, M-6:00

C — Gien Gray; Walter O'Keefe CKLW KFAB KFH KLRA KMBC KMOX KOMA KRLD KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDOD WDRC

THURSDAY (Continued)

WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WICC WISN WJAS WJSV WKBN WKBW WKRC WLAC WLBW WLBZ WMAS WMBD WMBG WMBR WMT WNAC WNAX WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC

R — Maxwell House Show Boat KDYL KFI KFSD KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS WAPI WAVE WBAP WBEN WCAE WCSH WDAF WEAF WEEI WFBR WFI WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKBF WKY WLW WMAQ WMC WOAI WOC WOW WRVA WSAI WRC WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ WWNC

8 — Death Valley Days; Drama

KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR WJZ WLS WLW WMAL WREN WYSR

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 - Fred Waring's Pennsylvanians CFRB CKLW CRCM KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRID KOLA KOH KOIN KOL KOMA KRID KSCJ KSL KTRIH KTSA KTUL KVI KVOR KWG WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDRIJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGST WHAS WHEC WHK WHP WIBW WICC WISN WJAS WJSV WKBN WKBW WKRC WLAC WLBW WLBZ WMAS WMBD WMBG WMBR WMT WNAC WNAX WNOX WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC

B — Mexican Musical Tours

KDKA KOIL KSO WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WJZ WMAL WMT WREN

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R - Paul Whiteman's Music Hall CFCF CRCT KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KVOO WAPI WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — Horace Heidt and Orchestra

CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KRLD KRNT KSL KTRH KTSA KTUL KVI KWG WABC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDRC WDSU WFBL WFBM WGR WGST WHAS WHK WJAS WJSV WKRC WLAC WMBG WMBR WNAC WNAX WOC WOKO WQAM WREC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B - Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C — Dance Orchestra

CFRB CKAC CKLW KDB KFH KGKO KLRA KLZ KOH KOMA KRLD KSCJ KTRH KTSA KVOR KWKH WABC WACO WADC WALA WBBM WBNS WBRC WBT WCAO WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WHEC WHK WHP WIBW WISN WJAS WJSV WKBW WKRC WLAC WLBW WLBZ WMAS WMBD WMT WNAC WNAX WNOX WOKO WORC WPG WQAM WSBT WSFA WSJS WSPD WTOC WWVA

B - Tony and Gus, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C - Glen Gray; Walter O'Keefe KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMJ KOH KOIN KOL KSL KVI KVOR KWG

FRIDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C - H. V. Kaltenborn

CKLW KFH KGKO KLZ KMBC KOH KOMA KRLD KSCJ KSL KTRH KVOR KWKH WAAB WABC WBBM WCAO WCAU WDNC WDRC WFBL WGLC WHEC WHK WISN WJAS WJSV WKBW WLAC WLBW WMT WOKO WORC WSPD

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B - Lowell Thomas, See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 B - Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15

R. Black Chamber, See Monday B ----Tony and Gus, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 B - Red Davis, See Monday

C — The O'Neill's, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 C - Boake Carter, See Monday

B — Dangerous Paradise, See Monday

R - Uncle Ezra, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 **R** — Cities Service Concert

CRCT KDYL KOA KPRC KSD KSTP KTBS KTHS KVOO KYW WBAP WBEN WCAE WCSH WDAF WEAF WEBC WEEI WFAA WFBR WGY WHO WJAR WKY WLIT WOAI WOC WOW WRC WRVA WSAI WTAG WTAM WTIC WWJ

B - Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOIL KOMO KPO KSO KTAR WAVE WBAL WBZ WBZA WGAR WHAM WIRE WJR WJZ WIS WMAL WMC WMT WREN WSB WSM WSYR

C — Leith Stevens' Harmonies

CFRB CKLW KDB KERN KFAB KFBK KFH KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSCJ KSL KTRH KTSA KVI KWG WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WDSU WEAN WFBL WFBM WGR WGST WHAS WHEC WHK WJAS WJSV WKRC WLAC WLBZ WMBG WMBR WNAC WNOX WOKO WORC WOAM WREC WSPD

ED-8:15 p.m., E-7:15, C-6:15, M-5:15 B --- Morton Downey

KOIL KSO WBZ WBZA WCKY WFIL WHAM WIRE WJZ WLS WMAL WMT WREN WSYR

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 B — Ruth Etting; Red Nichols

KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WFIL WGAR WHAM WJR WJZ WLS WMAL WMT WREN WSYR

C — True Story Court

CKLW KMBC WABC WADC WBBM WCAO WCAU WCCO WDRC WEAN WFBL WGR WHK WJAS WJSV WKRC WNAC WOKO

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 С - Hollywood Hotel

CFRB CKAC CKLW KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWKII WABC WACO WADC WALA WBBM WABC WACO WADC WALA WDDM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WHBY WICC WISN WJAS WJSV WKBH WKBW WKRC WLAC WLBW WLBZ WMAS WMBD WMBG WMBR WMT WNAC WNAX WNOX WOKO WORC WOWO WPG WOAM WREC WSBT WSFA WSJS WSPD WTOC

R. - Frank Munn; Abe Lyman

KSD WBEN WCAE WCSH WDAF WEAF WEEI WFBR WGY WJAR WLIT WLW WMAQ WOW WRC WTAG WTAM WWJ

R _ - Beatrice Lillie

CFCF CRCT KDKA KDYL KFI KGW KHQ KOA KOIL KOMO KPO KPRC KSO KTHS KWCR KWK WAPI WAVE WBAI WCKY WFLA WGAR WHAM WIOD WIS WJAX WJDX WJZ WKY WLIT WLS WMAL WMC WPTF WREN WSB WSMB WSYR WTAR WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 R - Pick and Pat

KSD WBEN WCAE WCSH WDAF WEAF WFBR WGY WHO WJAR WLIT WMAQ WOC WOW WRC WSAI WTAG WTAM WTIC WWJ

B — Armour Program; Phil Baker

KDKA KDYL KFI KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTAR KWK WAPI WAVE WBAL WBZ WBZA WEBC WENR WFAA WFLA WGAR WHAM WIOD WJAX WJR WJZ WKY WMC WOA1 WREN WRVA WSB WSM WSMB WTMJ WWNC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R - First Nighter; Drama

KDYL KFI KGO KGW KHQ KOA KOMO KPRC KSD KSTP WBEN WCAE WCSH WDAF WEAF WEBC WEEI WFAA WFBR WGY WHO WJAR WKY WLIT WLW WMAQ WMC WOAI WOC WOW WRC WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ

C - Richard Himber and Orchestra CKLW KFAB KFH KMBC KMCX WAAB WABC WADC WBBM WBNS WBT WCAO WCAU WCCO WDRC WDSU WFBL WFBM WGST WHAS

FRIDAY (Continued)

WHK WJAS WJSV WKBW WKRC WOKO WSBT WSPD

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 R - Joe Cook; B. A. Rolfe CFCF CRCT KDYL KF1 KFSD KFYR KGHL KG1R KGW KHQ KOA KPO KPRC KSTP KTAR KTBS KTHS KYW WAPI WAVE KTBS KTHS KYW WAPI WAVE WBEN WCAE WCSH WDAY WEAF WEBC WEAF WEBC WEEI WFAA WFBR WFLA WGY WHIO WIHA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOW WPTF WRVA WSAI WSME WSOC WTAG WTAM WTIC WWJ WWNC

C --- Col. Stoopnagle and Budd

CNLW KGB KGKO KIJ KLRA KMBC KOH KOL KOMA KRLD KSCJ KVI KVOR KWKII WAAB WABC WACO WBBM WBIG WBNS CKLW WBT WCAO WCAU WCCO WCHS WDBJ WDNC WDOD WDRC WDSU WEAN WFBL WGR WHAS WHEC WHP WICC WJAS WJSV WKRC WLAC WMAS WMBD WMBG WMT WNAC WNOX WOC WOKO WORC WPG WREC WSBT WSJS WSPD

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B — Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15. M-8:15 C — Dance Orchestra

KLRA WABC WALA WBRC WBT WCAO WDAE WDBO WDNC WDOD WDRC WDSU WEAN WFEA WHK WJSV WLAC WLBZ WMAS WNAC WNOX WORC WPG WQAM WSFA WSJS WTOC

B — Tony and Gus. See Monday

ED-12:30a, m., E-11:30, C-10:30, M-9:30 **Richard Himber and Orchestra** KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMJ KOIN KOL KSL KV1 KWG

SATURDAY

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C - Frederic William Wile

CKAC CKLW KDB KERN KFBK KFPY KFRC KGB KHJ KLRA KLZ KMJ KMOX KOIN KOL KRLD KSL KTRH KTSA KVI KWG WAAB WABC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDSU WFBL WFBM WGR WGST WHAS WHEC WHK WICC WJSV WKRC WMBR WNOX WQAM WREC WTOC

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C — Soconvland Sketches WABC WDRC WEAN WGR WICC WLBZ WMAS WNAC WOKO WORC

ED-7:30 p. m., E-6:30, C-5:30, M-4:30 C — Victor Arden and Orchestra CFRB CKAC CKLW WABC WBBM WCAO WCAU WFBL WHK WJAS WNAC WOKO

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 **Thornton Fisher Sports Review** R --KDYL KFYR KOA KSD KSTP KYW WAPI WAVE WBEN WCAE WCSH WDAY WEAF WEBC WFLA WHIO WIBA WIOD WGY WIS WJAR WJAN WJAN WJAN WMAQ WMC WOW WPTF WRC WRVA WSAI WSB WSMB WSOC WTAG WTAM WTAR WTIC WWJ WWNC

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 - Modern Minstrels

CFRB CKAC CKLW KDB KERN KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KTRH KTSA KVI KWG WABC WBBM WBRC WCAO WCAU WCCO WDOD WDRC WDSU WEAN WFBL WFBM WGR WGST WHAS WHK WIBW WJAS WJSV WKRC WLAC WMT WNAC WOKO WORC WREC WSPD

R - Lucky Strike; Lennie Hayton

KDYL KFI KFSD KFYR KGBL KGIR KGU KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KYW WAP1 WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WHIO WHO WIBA WIOD WIRE WJAR WJAX WJDX WKY WIS WLW WMAQ WMC WOAI WOW WPTF WSB WSMB WSOC WTAG WRC WTAM WTAR WTIC WWNC

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 Radio City Party

KDYL KEI KEYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTBS KYW WAPI WAVE WBAP WBEN WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHIO WIBA WIOD WIS WJAR WJAN WJDN WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-9:30 p.m., E-8:30, C-7:30, WI-6:30 C — Melody Masterpieces

CKLW KFH KMBC KMOX WAAB WABC WADC WBBM WBNS WBT WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WGST WHK WJAS WJSV WKBW WKRC WOKO WSBT WSPD

- National Barn Dance R -

KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR WJZ WKBF WLS WMAL WREN WSYR

R - Al Jolson; Victor Young

KDYL KFI KFSD KFYR KGHL KGIR KGW KHQ KOA KOMO KPO KSD KSTP KTAR KYW WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHIO WHO WIBA WIOD WIS WJAR WJAX WMAQ WOW WPTF WRC WRVA WSAI WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C --- California Melodies

CFRB CKLW KDB KFH KGKO KHJ KLRA KLZ KMBC KOH KOMA KRLD KSCJ KTRH KTSA KVOR KWKH WAAB WABC WACO WADC WALA WBIG WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGR WHEC WHP WIBW WICC WISN WJAS WJSV WKRC WLAC WLBW WLBZ WMAS WMBD WMT WNAX WNOX WOKO WORC WPG WQAM WSBT WSFA WSJS WSPD WTOC WWVA R --- Let's Dance

KFYR KPRC KSD KTBS KTHS

KVOO KYW WAVE WBAP WBEN WCAE WCSH WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WIBA WIOD WIS WJAR WJAY WJDY WKY WLW WMAQ WMC WOAI WOW WRC WSB WSMB WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B — National Barn Dance

KDYL KFI KGO KGW KHQ KOA KOMO WAVE WJDX WLS WMC WSB WSMB

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C - Dance Orchestra

CKAC CKLW KLRA WAAB WABC WBT WDAE WDBJ WDBO WDOD WDRC WDSU WFBM WGLC WGR WHEC WHP WIBW WJAS WJSV WKRC WLAC WORC WQAM WSBT WSFA WSJS WTOC

ED-12:00p.m.,E-11:00.C-10:00.M-9:00 C --- Dance Orchestra

CKAC CKLW KDB KFH KGKO KLRA KLZ KMBC KOH KOMA KTRH KTSA KWKH WABC WBNS WCAU WDBO WDNC WDOD WEAN WFBL WFBM WGLC WHP WIBW WICC WJSV WKBW WKRC WLAC WLBW WNAC WNOX WOKO WPG WQAM WSBT WTOC

SUNDAY

ED-11:30 a.m., E-10:30, C-9:30, M-8:30

C — Sait Lake Tabernacle Choir CKLW KFH KGKO KLRA KLZ KOH KRLD KSCJ KSL KTRH KTSA KWKH WABC WACO WADC WALA WBBM WBMS WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WHK WHP WIBW WICC WISN WJAS WJSV WLAC WLBW WLBZ WMAS WMBD WMBR WMT WNAC WNAS WNOX WOKO WORC WQAM WREC WSFA WSPD

- Major Bowes' Family R-

K — Major Bowes' Family KDYL KFYR KOA KPRC KSTP KTBS KVOO WAPI WCAE WDAF WDAY WEAF WEBC WFAA WFBR WFLA WGY WHO WIOD WJAR WJAX WKY WMAQ WMC WOAI WOC WRC WRVA WSAI WSMB WTAG WTAM WWNC

ED-12:15p.m.,E-11:15,C-10:15,M-9:15 R - What Home Means to Me

KDYL KFI KGW KHQ KOA KOMO KPO KPRC KTBS KTHS KVOO KYW WBAP WBEN WCAE WCSH WEAF WEEL WFBR WGY WHIO WHO WIRE WJAR WKY WMAQ WOAI WOW WRC WSAI WTAG WTAM WTIC

ED-12:30p.m., E-11:30, C-10:30, M-9:30 C — Romany Trail CKLW KMBC KMOX WABC WADC

WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WJAS WJSV WKH WKRC WMAS WNAC WOKO WORC WOWO WSPD

B - Radio City Symphony

KDKA KDYL KFI CFCF CRCT KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KVOO WAPI WBAL WBZ WBZA WCKY WDAY WEBC WGAR WHAM WIS WJDX WJR WJZ WKY WMAL WOAI WREN WSMB WSYR WWNC

SUNDAY (Continued)

ED-1:00p.m.,E-12:00,C-11:00,M-10:00 C — Church of the Air

CFRB CKLW KFH KGKO KIJJ KLRA KLZ KOII KRLD KSCJ KSL KTRH KTSA KWKH WAAB WABC WACO WALA WBBM WBIG WBNS WBT WCAO WCCO WDAE WDBJ WDBO WDNC WDOD WDBC WDSU WFBL WGLC WGR WHEC WID WIBW WJAS WJSY WKRC WLAC WLBW WIBZ WMBR WMT WNOX WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WWVA

ED-130p.m.,E-12:30,C-11:30,M-10:30 C — Mary Eastman; Evan Evans CKLW KFAB KFH KLZ KMBC KMOX KOMA KRLD KSCJ KSL WABC WADC WBHM WHNS WBT WCAU WCCO WDRC WFHL WFBM WCAR WHAS WHK WJAS WJSV

ED-2:00 p.m., E-1:00, C-12:00, M-11:00 C — Lazy Dan, Minstrel Man

CKLW KDB KERN KFAB KFBK KFPY KPRC KGB KIJI KLZ KMBC KMJ KMON KOIN KOL KOMA KRLD KSL KVI KWG WABC WADC WBBM WBNS WBT WCAO WCAU WCCO WDBJ WDRC WDSU WEAN WFBL WFBM WGST WIAS WHEC WHK WIBW WJAS WJSV WKBW WKRC WLAC WMBG WMT WNAC WOWO

B — Your English

wowo

KDKA KDYL KFI KFYR KGW KHQ KOA KOIL KOMO KPO KSO KSTP KVOO KWK WBAL WBZ WBZA WCKY WENR WFAA WFIL WGAR WIRE WJR WJZ WKY WMAL WMT WOAI WREN

R — Sally of The Talkies

WAPI WBEN WCAE WCSH WDAF WEAF WEEI WFBR WGY WHO WJAR WJDX WLI'T WMAQ WMC WOC WOW WRC WSAI WSB WSM WSMB WTAG WTAM WWJ

ED-2:30 p.m., E-1:30, C-12:30, M-11:30 C --- Eddie Dunstedter at Organ

CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHI KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KVI KWG WABC WADC WBBM WBF WCAO WCAU WCCO WDBJ WDRC WDSU WEAN WFBL WFBM WGST WHAS WHEC WHK WIBW WJAS WJSU WKBW WKRC WLAC WMBG WMT WNAC WOWO

B — Lux Program; Dramas

KDKA KDÝL KFI KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTBS KTHS KVOO KWCR KWK WBAL WBZ WBZA WDAY WBC WFAA WGAR WIAM WIBA WJR WJZ WKY WLW WMAL WOAI WPTF WREN WRVA WSYR WTAR

ED-3:30 p.m., E-2:30, C-1:30, M-12:30 R — Penthouse Serenade

KDYL KFI KGO KGW KHQ KOA KOMO KSD WBEN WCAE WCSH WDAF WEAF WEEI WFBR WGY WHO WJAR WLIT WLW WMAQ WOC WOW WRC WTAG WTAM WTIC WUJ

C — Howard Barlow Symphony

CFRB CKAC CKLW KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KEJ KLRA KLZ KMBC KMOX KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KVI KVOR KWG KWKH WAAB WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WGST WHAS WHK WIBW WICC WJAS WJSV WHP WKBN WKBW WKRC WLAC WLBZ WMBG WMBR WMAS WMBD WNOX WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC

ED-4:00 p.m., E-3:00, C-2:00, M-1:00 C --- St. Louis Parade

CFRB CKAC CKLW KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KHJ KLRA KLZ KMBC KMOX KOIN KOL KOMA KRLD KSCJ KSL KTRH KTSA KVI KVOR KWG WAAB WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WGST WHAS WHK WIIP WIBW WICC WJAS WJSV WKBN WKBW WKRC WLAC WJAS WIRZ WMAS WMBD WMBG WMBR WNOX WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC

ED-4:30 p.m., E-3:30, C-2:30, M-1:30 R -- Harry Reser and Orchestra

CFCF CRCT KTBS KTBS KVOO KYW WBAP WBEN WCAE WCSB WDAF WEAF WEEI WFBR WGY WJAR WKY WJAQ WOAI WRC WSAI WTAG WTAM WTIC WWJ

ED-4:45 p.m., E-3:45, C-2:45, M-1:45 R — Dream Drama

WBEN WCAE WCSH WDAF WEAF WEEI WFBR WFI WGY WJAR WMAQ WRC WSAI WTAG WTAM WTIC WWJ

ED-5:00 p.m., E-4:00, C-3:00, M-2:00 C--- Country Church of Hollywood

CKLW KFH KLRA KLZ KMBC KMOX KOMA KRLD KSL KTRH KTSA KTUL WAAB WABC WADC WBBM WBIG WBRC WBT WCAO WCAU WCCO WDOD WDRC WDSU WEAN WFBL WFBM WGR WGST WHAS WHEL WHK WIBW WJAS WJSV WKBN WKRC WLAC WLBZ WMAS WMBG WOKO WORC WOWO WREC WSPD

B — Roses and Drums

KDKA KOIL KPRC KSO KTHS KWCR KWK WBAL WBAP WBZ WBZA WENR WGAR WHAM WJR WJZ WKY WLW WMAL WOAI WREN WSYR

R --- Rhythm Symphony

KDYL KFI KGW KOA KOMO KPO KPRC KTBS WAPI WAVE WBAP WBEN WCSH WDAF WEAF WEBC WEEI WFBR WFLA WGY WIBA WIOD WJAR WJAX WJDX WLIT WMAQ WMC WOAI WPTF WRC WRVA WSAI WSB WSMI WSMB WTAG WTAM WTIC WWJ

ED-5:30 p.m., E-4:30, C-3:30, M-2:30

C — Frank Crumit; Julia Sanderson CKLW 'KFH KMBC KMOX KOMA KTUL WAAB WABC WADC WBNS WCAO WCAU WDRC WDSU WEAN WFBL WFBM WGR WHAS WHEC WHK WIBX WICC WJSV WMAS WOKO WORC WSPD WWVA

R — Tony Wons

CFCF CRCT KDYL KFI KFSD KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTHS KVOO KYW WAPI WAVE WBAP WBEN WCAE WCSH WDAY WBAY WEAF WEBC WEEI WFBR WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKBF WKY WMAQ WMC WOAI WOW WPTF WKQ WTAA WTAR WTIC WTMJ WWJ WWNC

ED-5:45 p.m., E-4:45, C-3:45, M-2:45 B — Becker's Dog Chats

KDKA KDYL KĚI KGO KGW KHQ KOA KOIL KOMO KSO KWCR KWK WBAL WBZ WBZA WENR WGAR WHAM WJR WJZ WMAL WREN WSYR

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C --- National Amateur Night

C — National Amateur Night CFRB CKLW KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLD KSL KVI KWG WAAB WABC WBBM WBNS WBT WCAO WCAU WCCO WDRC WDSU WFBL WFBM WGST WHAS WHEC WHK WJAS WJSV WKBW WKRC WOKO

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C — Smilin' Ed McConnell

CKLW KDB KERN KFAB KFBB KFPY KFRC KGB KHJ KLZ KMJ KMOX KOIN KOL KRLD KSL KVI KWG WAAB WABC WBBM WBNS WBRC WBT WCAU WCCO WDRC WDSU WEAN WFBL WFBM WFEA WGST WHAS WHSK WHP WICC WISN WJAS WJSV WKBW WKRC WLAC WLBW WLBZ WORC WQAM WREC WWAA

B — Compana Grand Hotel

KDKA KDYL KFI KGO KGW KHÇ KOA KOH, KOMO KSO KSTP KWCR KWK WBAL WBZ WBZA WEBC WENR WGAR WHAM WJR WJZ WMAL WREN WSYR WTMJ

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 C — Voice of Experience

CKLW KMBC KMOX WAAB WABC WBBM WBT WCAO WCAU WCCO WDRC WEAN WFBL WHAS WHK WJAS WJSV WKBW WKRC WNAC WOWO WWVA

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 B --- Jack Benny; Don Bestor

KDKA KDYL KFI KGO KGW KHÇ KOA KOIL KOMO KPRC KSO KSTF KWCR KWK WBAL WBAP WBZ WBZA WEBC WGAR WHAM WIBA WJDX WJR WJZ WKY WLS WLW WMAL WMC WOAI WREN WSB WSM WSMB WSYR WTMJ

C — Roadways of Romance

KDB KERN KFRK KFPY KFRC KGB KHJ KLZ KNBC KMOX KOIN KOL KSL KVI KWG WABC WRBM WCAO WCAU WCCO WDRC WFBL WGR WHAS WHK WJAS WJSV WKRC WNAS WHK WJAS

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 B --- Joe Penner; Ozzie Nelson

KDKA KDYL KFI KFYR KGO KGW KHQ KOA KOIL KOMO KPRC

SUNDAY (Continued)

KSO KSTP KTAR KVOO KWCR KWK WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WJAX WJDX WJR WJZ WKY WLS WMAL WMC WOAI WPTF WREN WRVA WSB WSM WSMB WSYR WTMJ

R — American Radiator Musical

WBEN WCAE WCSH WEAF WFBR WGY WJAR WMAQ WOW WRC WSAI WTAG WTAM WWJ

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 R — Fitch Program: Wendell Hall CFCF KSD WBEN WCAE WCSII WEAF WFBR WGY WHO WJAR WKBF WLIT WMAQ WOC WOW WRC WSAI WTAG WTAM WTIC

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C --- Ethel Merman; Al Goodman

WW I

CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KTRII KTSA KTUL KVI KWG WAAB WABC WADC WBBM WBRC WBT WCAO WCAU WCCO WDRC WBT WCAO WFBL WFBM WGR WGST WHAS WHK WJAS WJSV WKRC WOKO WOWO WSPD

R — Major Bowes' Amateur Hour CFCF CRCT KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KVOO WAPI WAVE WBEN WBZ WBZA WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WLIT WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRAY MSB WSM WSMB WTAG WTAM WHIC WTMJ WWJ WWNC

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C -- Gulf Headliners

CKLW KLRA KRLD KTRH KTSA WABC WACO WADC WALA WBIG WBNS WBRC WBT WCAO WCAU WDAE WDBJ WIBO WDOD WDRC WDSU WEAN WFEA WGST WHAS WHEC WHK WJAS WJSV WKRC WLAC WLBZ WMAS WMBG WMBR WNAC WOKO WORC WOWO WQAM WREC WSPD WTOC

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C — Ford Symphony

CFRB CKLW KDB KERN KFBK KFFH KFPY KFRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KECJ KSL KTRH KTSA KTUL KVI KVOR KWKH WABC WACO WADC WALA WBBM WBIG WENS WBC WBT WCAO WCAU WCCO VDAE WDBJ WDBO WCAU WCCO VDAE WDBJ WDBO WDAC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGR WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WKBH WKBN WKRC WLAC WLBW WLBZ WMAS WMBR WMT WNAC WNAX WNOX WOKO WORC WOWO WQAM WBBT WSFA WSJS WSPD WTOC WVWA

R — Manhattan Merry-Go-Round CFCF KDYL KFI KGO KGW KHQ KOA KOMO KSD KSTP WDAF WEAF WEBC WFBR WFI WGY WHO WJAR WMAQ WOC WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ

B — Silken Strings; Charles Previn KDKA KDYL KFI KGO KGW KHQ KOA KOAL KOIL KOMO KPRC KSO KSTP KWCR KWK WBAL WBAP WBZ WBZA WEBC WGAR WHAM WIBA WJR WJZ WKY WLS WLW WMAL WREN WSYR WTMJ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 R — Album of Familiar Music

CFCF CRCT KDYL KFI KGO KGW KHQ KOA KOMO KPRC KSD KSTP KVOO WBEN WCAE WCSH WDAF WEAF WEEI WFAA WFBW WFI WFIA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSM WSMIB WTAG WTAM WTMJ WWJ WWNC

B - Walter Winchell

WDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WENR WGAR WHAM WJR WJZ WLW WMAL WREN WSYR

ED-9:45 p.m., E-8:45, C-7:45, M-6:45 B-Adventures of Sherlock Holmes KDKA KOLL KSO KWCR WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WJR WJZ WMAL WREN WSYR ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R — The Gibson Family

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KSTP KYW WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFBR WGY WHO WIBA MLW WJAQ WOW WRC WTAG WTAM WTIC WTJJ WWJ

C - Wayne King, See Monday

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — Fray and Braggiotti

CKAC CKLW KFH KGKO KHJ KLRA KLZ KMBC KOH KRLD KSCJ KTHI KTSA KVOR KWKH WAHC WACO WADC WALA WBIG WBNS WBT WCAO WCAO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFDM WFEA WDBJ WECC WISN WJAS WJSV WKRC WLAC WLBW WLAZ WMAS WMBD WMBR WMT WNAX WNOX WOKO WORC WPG WQAM WREC WSBT WSFA WJS WSPD WTOC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C — Dance Orchestra

C — Dance Othestra CFRB CKAC CKLW KFH KGKO KLRA KLZ KOH KRLD KSCJ KTRH KTSA KVOR KWKH WABC WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDD WDRC WDBU WEAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDBU WHBO WHFU WFA WGLC WGR WHEC WHK WHP WISN WLBZ WMAS WMBD WMBR WMT WNAC WNAX WNOX WOKO WORC WFG WQAM WREC WBT WSFA WSJS WSFD WTOC

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 B — Walter Wincheil

KDYL KFI KFSD KGHL KGIR KGW RHQ KOA KOMO KPO KPRC KTAR KTBS KTHS WAPI WAVE WBAP WJDX WKY WMC WOAI WSB WSM WSMB

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 B — Jack Benny: Don Bester KDYL KFSD KGIR KGU KHQ KOA KOMO KTAR

ED-12:00 p.m., E-11:00, C-10:00, M-9:00 Rev. Charles E. Coughlin WCAO WCAU WDRC WEAN WFBL

WCAO WCAU WDRC WEAN WFBL WFEA WGAR WGR WHO WICC WIND WJAS WJR WLBZ WLW WMAS WNAC WNBH WOC WOKO WOL WOR WORC

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight Saving

C--Columbia; R--National (Red); B--National (Blue)

These features are correct at the time of going to press, but changes are being made daily.

CONCERTS

Howard Barlow Symphony, 3:30 p.m. Sunday, C Ford Concert, 9:00 p.m. Sunday, C Radio City Music Hall, 12:30 p.m. Sunday, B

DANCE BANDS

Victor Arden, 8:30 p.m. Wednesday; 7:30 p.m. Sat., C Leon Belasco, 9:30 p.m. Friday, B Ben Bernie, 9:00 p.m. Tuesday, R Don Bestor, 7:00 and 11:30 p.m. Sunday, B Eddle Duchin, 9:30 p.m. Tuesday, R Lud Gluskin, 9:30 p.m. Monday, C Al Goodman, 9:30 p.m. Monday, R: 8:00 p.m. Sunday, C Glen Gray, 10:00 p.m. Tuesday: 9:00 and 11:30 p.m. Thursday; C

Forde Grofe, 10:00 p.m. Wednesday, C Lennie Hayton, 8:00 p.m. Sat., R Horace Heidt, 10:30 p.m. Thurs., C

- Richard Himber, 8:00 p.m. Monday, R: 10:00 and 12:30 p.m. Friday, C Hal Kemp, 8:00 p.m. Wednesday, B
- Wayne King, 8:30 p.m. Tucs. and Wed., R: 10:00 p.m. Sunday and Monday, C Let's Dance, 10:30 p.m. Saturday. R.
- Guy Lombardo, 10:00 p.m. Wednesday, R
- Abe Lyman, 9:00 p.m. Friday, R; 8:30 p.m. Tuesday, C
- Ozzie Nelson, 7:30 p.m. Friday, B Red Nichols, 8:30 p.m. Friday, B Ray Noble, 10:30 p.m. Wednesday, R

- Charles Previn, 9:00 p.m. Sunday, B Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
- Harry Reser, 4:30 p.m. Sunday, R
- Freddie Rich, 7:00 p.m. Sun.; 8:30 p.m. Thursday, C
- B. A. Rolfe, 10:30 p.m. Friday, R Phil Spitalny, 9:30 p.m. Tuesday, C
- Leith Stevens, 8:00 p.m. Friday, C
- Rudy Vallee, 8:00 p.m. Thursday, R Fred Waring, 9:30 p.m. Thursday, C
- Paul Whitman, 10:00 p.m. Thursday, R

DIALOG

- Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
- Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat. and Sun., B
- Phil Baker, 9:30 p.m. Friday, B
- Jack Benny, 7:00 and 11:30 p.m. Sunday, B
- Block and Sully, 9:30 p.m. Monday, C
- Joe Cook, 10:30 p.m. Friday, R
- Easy Aces, 7:30 p.m. Mon., Tues, and Wed., R
- Fibber McGee and Molly, 10:00 p.m. Tuesday, B
- George and Gracie, 10:00 p.m. Wednesday, C
- Lou Holtz, 10:00 p.m. Thursday, R
- Beatrice Lillie, 9:00 p.m. Friday, B
- Walter O'Keefe, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m. Thursday, C Joe Penner, 7:30 p.m. Sunday, B
- Ray Perkins, 6:00 p.m. Sunday, C
- Pick and Pat, 9:30 p.m. Friday, R
- Stoopnagle and Budd, 10:30 p.m. Friday, C
- Uncle Ezra, 7:45 p.m. Mon.; Wed., Fri., R
- Ed Wynn, 9:30 p.m. Tuesday, R

DRAMA

- Max Baer, 10:30 p.m. Monday, R Black Chamber, 7:15 p.m. Mon., Wed. and Fri., R Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B Red Davis, 7:30 p.m. Mon., Wed., and Fri., B Death Valley Days, 9:00 p.m. Thursday, B Dream Drama, 4:45 p.m. Sunday, R Eno Crime Clues, 8:00 p.m. Tuesday, B First Nighter, 10:00 p.m. Friday, R Grand Hotel, 6:30 p.m. Sunday, B Sherlock Holmes, 9:45 p.m. Sunday, B Home on the Range, 9:00 p.m. Wednesday, B House of Glass, 8:30 and 11:30 p.m. Wednesday, B Lux Program, 2:30 p.m. Sunday, B One Man's Family, 8:00 p.m. Wednesday, R One stan s ramity, 8:00 p.m. Wednesday, R The O'Neillis, 7:30 p.m., Mon., Wed., Fri., C Princess Pat Players, 9:30 p.m. Monday, B Red Trails, 9:00 p.m. Tuesday, B Irene Rich, 8:00 p.m. Friday, B Buck Rogers, 6:00 and 7:30 p.m. Mon. to Thurs.,
- inc., C
- Roses and Drums, 5:00 p.m. Sunday, B
- Sally of the Talkies, 2:00 p.m. Sunday, R
- Six-Gun Justice, 9:00 p.m. Monday, C
- Soconyland Sketches, 7:00 p.m. Saturday, C
- Tony and Gus, 7:15 and 11:15 p.m. daily, ex. Sat. and Sun., B
- True Story Court, 8:30 p.m. Friday, C
- Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A & P Gypsies, 9:00 p.m. Monday, R Album Familiar Music, 9:30 p.m. Sunday, R American Radiator Musical, 7:30 p.m. Sunday, R Mator Bowes, 11:30 a.m. Sunday; 8:00 p.m. Sunday, R California Melodles, 10:30 p.m. Saturday, C Cities Service Concert, 8:00 p.m. Friday, R Contented Program, 10:00 p.m. Monday, R Fleischmann Variety, 8:00 p.m. Thursday, R Gibson Famly Musical, 10:00 p.m. Sunday, R Gulf Headliners, 8:30 p.m. Sunday, C Otto Harbach Musical Show, 9:30 p.m. Monday, R. Hollywood Hotel, 9:00 p.m. Friday, C Lilac Time, 10:30 p.m. Monday, C Lucky Strike, 8:00 p.m. Saturday, R Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R Maxwell House Show Boat, 9:00 p.m. Thursday, R Mexican Musical Tours, 9:30 p.m. Thursday, B Molle Minstrels, 7:30 p.m. Thursday, R National Amateur Night, 6:00 p.m. Sunday. C National Barn Dance, 9:30 and 11:00 p.m. Saturday, B Palmolive Beauty Box, 10:00 p.m. Tuesday, R Penthouse Serenade, 3:30 p.m. Sunday, R Radio City Party, 9:00 p.m. Saturday, R Rhythm Symphony, 5:00 p.m. Sunday, R Roadways of Romance, 7:00 p.m. Sunday, C Sinclair Minstrels, 9:00 p.m. Monday, B Voice of Firestone, 8:30 and 11:30 p.m. Monday, R. Tony Wons, 5:30 p.m. Sunday, R.

SINGERS

- Lois Bennett, 10:00 p.m. Sunday, R
- Mario Chamlee, 7:15 and 11:15 p.m. daily, ex. Sat and Sun., B
- Bernice Claire, 8:00 p.m. Tues., C; 9:00 p.m. Friday, R
- Norman Cordon, 10:30 p.m. Wednesday, C
- Bing Crosby, 9:00 p.m. Tuesday, C
- Morton Downey, 8:15 p.m. Friday, B
- Jessica Dragonette, 8:00 p.m. Friday, R
- Mary Eastman. 1:30 p.m. Sunday, C Ruth Etting, 8:30 p.m. Friday, B
- Foursome, 8:00 p.m. Wednesday, C
- Wendell Hall, 7:45 and 11:00 p.m. Sunday, R
- Annette Hanshaw, 10:00 p.m. Tuesday: 9:00 and 11:30 p.m. Thurs., C
- Helen Jepson, 10:00 p.m. Thursday, R
- Al Jolson, 9:30 p.m. Saturday, R
- Lazy Dan, 2:00 p.m. Sunday, C
- Elizabeth Lennox, 8:30 p.m. Wednesday, C Everett Marshall, 8:30 p.m. Wednesday, C Maxine, 9:30 p.m. Tuesday, C
- James Melton, 9:30 p.m. Monday, R
- Ethel Merman, 8:00 p.m. Sunday, C Frank Munn, 9:30 p.m. Sunday; 9:00 p.m. Friday, R; 8:00 p.m. Tuesday, C
- 8300 p.m. 1 uesuay, C Gertrude Niesen, 930 p.m. Monday, C Frank Parker, 7300 and 1130 p.m. Sunday, B Lanny Ross, 9300 p.m. Thursday, R
- Sanderson-Crumit, 5:30 p.m. Sunday. C
- Vivlenne Segal, 8:30 p.m. Tuesday, C; 9:30 p.m. Sunday, R Smilin' Ed McConnell, 6:30 p.m. Sunday, C
- Kate Smith, 8:00 p.m. Thursday, C
- Conrad Thibault, 9:00 p.m. Thurs.; 10:00 p.m. Sun., R John Charles Thomas, 9:00 p.m. Wednesday, B

TALKS

Advisory Council, 10:45 p.m. Tuesday, C Becker's Dog Chats, 5:45 p.m. Sunday, B Boake Carter, 7:45 p.m. daily, except Sat. and Sun., C Rev. Charles E. Coughlin, 12:00 mid. Sunday Thornton Fisher, 7:45 p.m. Saturday, R Floyd Gibbons, 7:30 p.m. Thursday, B H. V. Kaltenborn, 6:30 p.m. Friday C Lowell Thomas, 6:45 p.m. daily, except Sat. and Sun., B Voice of Experience, 6:45 p.m. Sunday: 11:30 p.m., Wednesday, C Frederic William Wile, 6:00 p.m. Saturday, C Walter Winchell, 9:30 and 11:15 p.m. Sunday, B World Peace Foundation, 8:15 p.m. Wednesday, C Your English, 2:00 p.m. Sunday, B

Radio Reception on the High Sea ••• By Wolff M. Henius

R ADIO reception on the open sea is not always a pleasure. As I write this I am enroute from Los Angeles to Manila, P. I., and will proceed from there to British India via the Dutch East Indies, Singapore and Cevlon.

I am equipped with a Philco 28-C for both a.c. and d.c., 115 volts. Nearly all ships afloat have 220 volts d.c. so a resistor is necessary to reduce the output from the mains. The best I have found is a 330-ohm resistor cord made by the Ohmite Mfg. Co. in Chicago.

Though many contrivances have been manufactured and advertised to eliminate static, I do not believe anything can do it especially in the tropics. Static, however, is not the worst enemy of radio on board ship. This lies in the ship itself, its iron structure, its many electric pumps, exhaustors, generators and especially electric fans. All of these fans are inevitably switched on as soon as the weather gets real hot and their noise is so intense and constant that any radio reception is impossible.

My aerial consists of about fifty feet of plain copper wire with a direct lead-in to the cabin. The longer the aerial is, the better the reception and likewise the worse the static. A lightning arrester must be used in order to prevent the tubes from being ruined. DX fans should equip themselves with a watch or clock set to Eastern Standard Time. Most programs are listed in EST and tuning is made much easier.

Two or three days out of Los Angeles, I received KFI, KPO, KGO, KNX and KSL very clearly but after that time the noise from the generator became so strong that I only occasionally logged one of these stations after nightfall so that I switched entirely to the s.w. band ranging from four to thirteen megacycles.

We are now off Manila, about 6500 miles away from the Pacific Coast, but I still receive daily either day or night, the following s.w. stations: W8XK on 11.87, 10.75 and 6.14 megs. according to the time; CJRX, CJRO. W2XAF. XEBT. W8XAL and W9XE.

As Shown in the Index by

Frequencies and Dial Numbers

KEY TO SYMBOLS

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols

- Verifies reception for return postage.
- b Verifies only occasionally.
- Does not verify с
- Verification 10c: letter 25c. d
- Sends Ekko stamp for 10c. e
- Sends Ekko stamp for 5c. ٢.
- Sends Ekko stamp for postage. g
- Sends own station stamp for 10c. h
- Sends own station stamp for 5c
- 1 Sends own station stamp for postage.
- k Has no stamps.
- Verifies for 5c. m
- n Weather or time only
- No information available. z
- Fourth Column Symbols
- American Broadcasting System. A

- B National "Blue" network:
- Columbia network. C
- D Day time only
- Dn Daytime with occasional evening hours
- F Canadian Radio Brdestg. Commission.
- National 'Red' and 'Blue' networks.
- N Has construction permit only.
- R National "Red" network.
- Sunday only S
- Sy Synchronized
- x Has permit to increase power.
- Has permit to change location
- Has permit to change frequency 2
- a-b-c. Small letters show stations using same trans mitter.
- 1-2-3. Figures denote stations sharing time
- No information.

540 kilocycles

CJRM ak 1000 F

550 kilocycles

CFNB	ak	1000	F
KFUO	ae		2 (1)
KFYR KOAC KSD	ae ak ak	1000 1000 1000	N (5) 2R (5)
KTSA	ak	1000	C (5)
WDEV	ae	500	
WGR	ae	1000	C
WKRC	ak	1000	C (2.5)
WSVA	z	500	DP

560 kilocycles

KFDM	ak	500	(1)
KLZ	ae	1000	C (2.5)
ктав	ak	1000	
KWTO	ak	5000	D
TGW	ak	10000	565
WFIL	ae	1000	в
WIND	ak	1000	(2.5)
WNOX	ak	1000	$\dot{\mathbf{C}}$ (2)
WOAM	ae	1000	C
XÈAO	ak	250	(.15)

570 kilocycles

KGKO	ak	500	C (1)
KMTR	ak	500	
KVI	ak	1000	
WKBN	ae	500	1C
WMCA	ak	500	Ā
WNAX	ak	1000	C (5)
WOSU	ak	750	1 (1)
WSYR	ak	250	₿` [−] ∕
WWNC	ae	1000	Ñ

580 kilocycles

CHRC	ak	100	F
CKCL	ae	100	F
CKUA	ak	500	
KMJ	ak	1000	С
KSAC	ak	500	2 (1)
WCHS	ak	500	(1)
WDBO	ae	1000	Ċ.
WIBW	ak	1000	C2 (5)
WTAG	ae	500	R (1)

590 kilocycles

кно	ak	1000	N (2.5)
WEEI	ak	1000	R
WKZO	ae	1000	D
wow	ae	1000	R (5)
XEPN	ak	50000	

600 kilocycles

CFCF	ae	400		Ν
CJOR	ak	500		V
CMW	ak	100		F
CRCW	z	1000	F	V
FON	z	250	609	S
KÈSD	ae	1000	N	S
WCAC	ak	500	2	S
WCAO	ae	500	C (1)	В
WICC	ae	500	2 C (1)	E

Moose Jaw. Sask.

Fredericton, N. B. St. Louis, Mo. Bismarck, N. D. Corvallis, Ore. St. Louis, Mo. San Antonio, Texas Waterbury, Vt. Buffalo, N. Y. Cincinnati, Ohio Staunton, Va.

Beaumont, Texas Denver, Colo. San Francisco, Calif. Springfield, Mo. Guatemala City Philadelphia, Pa. Gary, Ind. Knoxville, Tenn. Miami, Fla. Mexicali, B. C.



- Wichita Falls, Texas Hollywood, Calif. Tacoma, Wash. Youngstown, Ohio New York, N. Y. Yankton, S. D. Columbus, Ohio Syracuse, N. Y. Asheville, N. C.
- Quebec, Que. Toronto, Ont. Edmonton, Alta. Fresno, Calif. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Worcester, Mass.



Spokane, Wash. Boston, Mass. Kalamazoo, Mich. Omaha, Neb. PiedrasNegras,Coah.



54

WMT a WREC a	af 1000 ak 1000	B (2.5) C (2.5)	Cedar Rapids, Iowa Memphis, Tenn.
610 k	ilocycl	es	
KFRC a Kiny z WDAF a Wip a Wjay a	k 1000	C (5) P R (5) A (1)	San Francisco, Calif. Juneau, Alaska Kansas City, Mo. Philadelphia, Pa. Cleveland, Ohio Mexico City, D. F.
620 k	ilocycl	les	
KTAR WFLA WHJB WLBZ WSUN	ak 1000 ae 1000 ak 250 ak 500 ak 1000 ak 1000 ak 1000	N (5) N (.5) C (1) Na (1) N (5.)	Portland, Ore. Phoenix, Ariz. Clearwater, Fia. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis.
630 k	ilocycl	es	
CJGX CKOV KFRU KGFX WGBF WMAL WOS	a 1000 ak 500 ak 100 ak 200 ak 200 ak 250 ak 500 ak 250 ak 500 ak 500	F F 1(1) D 1 B (.5) 1D A	Char't'w'n, P.E.I. Yorkton, Saek. Kelowna, B. C. Columbia, Mo. Pierre, S. D. Evansville, Ind. Washington, D. C. Jefferson City, Mo. Providence, R. I. Merida, Yuc.
640 k	ilocycl	es	
WAIU e WOI a	z 125 ak 50000 ae 500 ae 5000 ak 250	N D	Havana, Cuba Los Angeles, Calif. Columbus, Ohio Ames, Iowa Saltilio, Coah.
650 k	ilocycl	es	
	e 50000	N	Nashville, Tenn.
		es	Havana Cuba
	uk 50000	D R	Havana, Cuba Omaha, Neb. New York, N. Y.
670 k	ilocycl	es	
		N	Chicago, Ill.
CMCO 2	ilocycl		Havana, Cuba
KFEO KPO VAS VOWR	te 2500 tk 50000 tkn 2000 tkn 2000 tk 500 te 1000	D N 685 681 DnN (5	Havana, Cuba St. Joseph, Mo. San Francisco, Calif. Glace Bay, N. S. St. John's, Nfid.) Raleigh, N. C.
690 k	ilocycl	es	
CFRB 2 CJCJ 2 NAA 2	ale 10000 alk 100 alkn 1000 alkn 500	C F	Toronto, Ont. Calgary, Alta. Arlington, Va. Monterrey, N. L.
700 k	ilocycl	es	
RDN 2			San Salvador, E. S. Cincinnati, Ohio

710 kilocycles

KMPC KPCB	ae ae	500 250				
WOR XEN	ak ak	50000 1000	7	,		

720 kilocycles

WGN ck 50000

730 kilocycles

CFPL ak 100 F ĊĴĊĀ CKAC ah 1000 Ē ak 5000 Ē CMAF ak 250 XEBC 5000 яk

740 kilocycles

кммј	ae	1000	D
KTRB	ak	250	Ď
WHEB	ak	250	D
WSB	ah	50000	N
XELC	z	100	

750 kilocycles

CMCW dk 112 KGU WJR 2500 aj ak N B 10000

760 kilocycles

CMJK KXA WBAL WEW ak 150 250 (.5)ae 80 10000 BSy ae 1000 D WJZ c⊾ 50000 BSy XEOK Z 2500 765

770 kilocycles

CMBS ak 130 KFAB 80 10000 CSy CSy WBBM ae 50000

780 kilocycles

CHWK CKSO KELW KFDY KFOD KGHL KTM WEAN WEAN WTAR	ak z ae ak ak ak ab ae	100 1000 500 1000 250 1000 500 500 1000 500	F F 2 D N (2.5) 2 (1) C N (2.5) N (1)
WTAR	ae	500	N (1)
IBYZ	S	10000	

790 kilocycles

CMOA	z	72	
KGO	ak	7500	N
WGY	ak	50000	R

800 kilocycles

WBAP ak 50000 Na Na D WFAA WTBO 50000 ak 80 250



Chicago, Ill.



London, Ont. Edmonton, Alta. Montreal, Que. Havana, Cuba Agua Caliente, L. C.



Clay Center, Neb. Modesto, Calif. Portsmouth, N. H. Atlanta, Ga. Mexico City, D. F.



Havana, Cuba Honolulu, T. H. Detroit, Mich.



Camaguey, Cuba Seattle, Wash. Baltimore, Md. St. Louis, Mo. New York, N. Y. Tijuana, L. C.



Havana, Cuba Lincoln, Neb. Chicago, Ill.



Chilliwack, B. C. Sudbury, Ont. Burbank, Calif. Brookings, S. D. prookings, S. D. Anchorage, Alaska Billings, Mont. Los Angeles, Calif. Providence, R. I. Memphis, Tenn. Norfolk, Va. Mexico City, D. F.



San Francisco, Calif. Schenectady, N. Y.

Fort Worth, Tex. Dallas, Tex. Cumberland, Md.

810 kilocycles

CMCF		250	815
CMHW	z	100	
WCCO	ae	50000	С
WNYC	ak	1000	N
XFC	z	350	

820 kilocycles

WHAS aj XETW dk 50000 C 500

830 kilocycles

СМС 500 835 N ae ak 50000 KOA WEEU D ak 1000 WHDH ae 1000 Dn A WRUF 5000 8.6 Dn

840 kilocycles

CFQC	ak	1000	F
СМО	z	500	F
CRCT	ak	5000	F
VOGY	ak	400	
XEP	z	500	
XEXX	z	500	845

850 kilocycles

KIEV	aj	250	D
TIEP	Z	500	
WESG	ak	1000	
WWL	ae	10000	
WWPA	z	250	DP

860 kilocycles

WABC	ae	50000	С
WHB	ae	1000	D
хемо	ak	2500	865

870 kilocycles

50000 WENR ak Na Na WLS 50000 86

880 kilocycles

CFJC	ak	100	F
CRCO	ak	1000	F
KFKA	ak	500	2 (1)
KLX	ae	1000	
KPOF	ak	500	2
wcoc	ae	500	(1)
WGBI	ae	500	1
WPHR	z	500	D
WOAN	ae	250	1
WSUI	ae	500	(1)
			. /

890 kilocycles

CJIC	z	100	D
KARK	ak	250	(.5)
KFNF	ak	500	2 (1)
KSEI	ck	250	(.5)
KUSD	ae	500	2
WBAA	ak	1000	D
WILL	ak	1000	
WGST	aeh	250	C (1)
WJAR	ae	500	R
WMMN	ae	500	(1)
XEW	ak	50000	

Havana, Cuba
Cienfuegos, Cuba
Minneapolis, Minn
New York, N. Y.
Aguascalientes, Ags.
······

Louisville, Ky Mexico City, D. F.



Havana, Cuba Denver, Colo. Reading, Pa. Boston, Mass Gainesville, Fia.

Saskatoon, Sask. Havana, Cuba Toronto, Ont. St. John's, Nfld Mexico City, D. F. Mexico City, D. F.

Glendale, Calif. San Jose, C. R. Elmira, N. Y. New Orleans, La. Clarion, Pa.

New York, N. Y. Kansas City, Mo. Tijuana, B. C.

Chicago, Ill. Chicago, Ili.

Kamloops, B. C. Ottawa, Ont. Greeley, Colo. Oakland, Calif. Denver, Colo. Meridian, Miss. Scranton, Pa. Petersburg, Va. Scranton, Pa. Iowa City, Iowa

Urbana, Ill. Atlanta, Ga.

Providence, R. I. Fairmont, W. Va. Mexico City, D. F.

S. Ste. Marie, Ont.
Little Rock, Ark.
Shenandoah, Iowa
Pocatello, Idaho
Vermillion, S. D.
W. Lafayette, Ind.

900 kilocycles

KGBU	ak	500	
кнј	ae	1000	C (5)
WBEN	ae	1000	R
WFMD	Z	500	DP
WJAX	aeh	1000	N
WKY	ae	1000	N
WLBL	ak	2500	D
WMFI	z	500	DP
WTAD	ak	500	D

910 kilocvcles

CJAT	ak	250	F
CRCM	ak	5000	F
XENT	ck	60000	

920 kilocycles

CMX	ae	650	
ннк	ae	1000	
KFEL	ak	500	2
комо	ak	1000	N
KPRC	ae	1000	N (5)
KVOD	ak	500	2 ` ´
WAAF	ak	500	D
WBSO	ae	500	Đ
WPEN	ak	250	(.5) 1
WRAX	ak	250	1 (.5)
WSPA	ae	1000	D.
wwj	ak	1000	Ŕ
XEAA	z	200	
XEFE	z	250	

930 kilocycles

CFAC	ak	100	F
CFCH	ak	100	F
CFLC	ae	100	
CHNS	ae	1000	F
CKPC	ae	100	F
CKPR	ak	100	F
KGBZ	ak	1000	2(2.5)
КМА	ak	1000	2 (2.5)
KROW	ak	500	(1)
TIRH	z	50	
WBRC	ak	1000	С
WDBJ	ae	1000	С

940 kilocycles

CMBC	de	195	
CMKM	z	100	
KOIN	ak	1000	C (5)
VOAS	ak	100	
WAAT	ae	500	D
WAVE	ak	1000	N
WCSH	ae	1000	R (2.5)
WDAY	ae	1000	N (5)
WHA	ak	2500	D
XEFO	ak	5000	

950 kilocycles

CRCS	ak	100	F
KFWB	ak	1000	(2.5)
KHSL	z	250	DP(5)
кмвс	ae	1000	C
VONF	ak	5000	
WRC	ae	500	R (1)

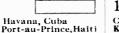
960 kilocycles

CK Y	ak		F	•		
CMCD	ah	180				
CMJL XEAM	Z Z	50 50				
XEAW	z ak	10000				
AEA W	аь	10000				

Ketchikan, Alaska Los Angeles, Calif. Buffalo, N. Y. Frederick, Md. Jacksonville, Fla. Oklahoma City, Ok. Stevens Point, Wis. New Haven, Conn. Quincy, HI.



Trail, B. C. Montreal, Que Nuevo Laredo, Tams-



Denver, Colo. Seattle, Wash. Houston, Texas Denver, Colo. Chicago, III. Babson Park, Mass. Philadelphia, Pa. Philadelphia, Pa. Spartanburg, S. C. Detroit, Mich. Mexicali, B. C Nuevo Laredo, Tams,

Calgary, Alta. North Bay, Ont. Prescott, Ont. Halifax, N. S. Brantford, Ont. Fort William, Ont. York, Neb. Shenandoah, Iowa Oakland, Calif. San Jose, C. R. Birmingham, Ala. Roanoke, Va.

1
llavana, Cuba
Manzanillo, Cuba
Portland, Ore.
Portland, Ore. St. John's, Nfld.
Jersey City, N. J.
Louisville, Ky.
Portland, Maine
Fargo, N. D.
Madison, Wis.
Mexico City, D. F.

Chicoutimi, Que.
Hollywood, Calif.
Chico, Calif.
Kansas City, Mo.
St. John's, Nfld. Washington, D. C.
washington, D. C.

Winnipeg, Man. Havana, Cuba Camaguey, Cuba Nuevo Laredo, Tams. Reynosa, Tams.

970	kil	ocyc	eles
KJR	z	5000	N
WCFL	ae	1500	B
WIBG	ak	100	D

980 kilocycles

KDKA bk 50000

990 kilocycles

WBZ WBZA	ak ak	50000 1000	53		
XEK	ak	100			
XES	dk	250		•	

1000 kilocycles

120 250 CMBZ ak KFVD ak Ðn TIGH 500 WHO ak 50000 R

1010 kilocycles

			++
CHML	aei	50	F
CHWC	ak	500	3F
CKCD	ak	100	
CKCK	ak	500	3F
СКСО	z	100	
CKIC	ak	50	
CKWX	ak	100	F
CMJG	z	50	2
KGGF	ak	1000	2
KQW	ae	1000	
TIĞA	z	30	1014
WHN	ae	1000	
WIS	ae	1000	N (2.5
WNAD	ae	1000	2 (1)
XEAF	z	250	
XEU	ak	250	

1020 kilocycles

10000 K YW XEJ ak R ak 1250

1030 kilocycles

CFCN ak 10000 F CKLW 5000 Ĉ ae CMCY ak 1000 XEB ak 10000

1040 kilocycles

CMGH	ak	15	
KRLD	ae	10000	С
KWJJ	ak	500	
WKAR	ak	1000	D
WTIC	ak	50000	R

1050 kilocycles

CFCO CRCK	ak z	100 1000	F	7		
KFBI	ak	5000	Ľ)	n	
KNX	ak	50000		•		
TIFA	z	75				

1060 kilocycles

CMK KTHS	ae ae	$1500 \\ 10000$	N
VOAC	z	40	1065
WBAL	ae	10000	В
WJAG	ak	1000	D
XEA	ak	125	

Pittsburgh, Pa. Boston, Mass. Springfield, Mass. Mexico City, D. F. Tampico, Tams. Havana, Cuba Los Angeles, Calif. San Jose, C. R. Des Moines, Iowa Hamilton, Ont. Regina, Sask. Vancouver, B. C. Regina, Sask. Ottawa, Ont. Wolfville, N. S. Vancouver, B. C. Vancouver, B. C. Camaguey, Cuba Coffeyville, Kans. San Jose, Calif. Cartago, C. R. New York, N. Y. Columbia, S. C.

Seattle, Wash.

Chicago, Ill. Glenside, Pa.

Columbia, S. C. Norman, Okla. Nogales, Sonora Veracruz, Ver.

Philadelphia, Pa. Juarez, Chih.

Calgary, Alta. Windsor, Ont. Havana, Cuba Mexico City, D. F.

Matanzas, Cuba

Dallas, Texas Portland, Ore. East Lansing, Mich. Hartford, Conn.

Chatham, Ont. Quebec, Que. Abilene, Kans Hollywood, Calif. San Jose, U. R.

Havana, Cuba Hot Springs, Ark. St. John's, Nfid. Baltimore, Md. Baltimore, Md. Norfolk, Neb. Guadalajara, Jal.

		INDEA BI F	REQUE	INC.	IES	
1070 kilocyc	les		WWVA XED	ak ck	5000 500	1 C
CMHA z 50		Sagua la Grande, C.	XEFL	z	5000	Р
KJBS ak 500 WCAZ dk 100 WDZ ak 100	Dn D D	San Francisco, Calif. Carthage, Ill. Tuscola, Ill.	1170) ki	locy	cles
WTAM ck 50000	R	Cleveland, Ohio	CMBD	z	163	
1080 kilocyc	les		WCAU		50000	С
WBT ae 50000	С	Charlotte, N. C.	1180) ki	locy	cles
WCBD ak 5000 WMB1 ae 5000	1Dny 1Dn	Waukegan, Ill. Chicago, Ill.	CMJO KEX	ak ak	50 5000	2N
XEMA z 50		Tampico, Tams.	KOB VE9EK	ae ak	10000	2 1185
1090 kilocyc	eles		WDG Y WINS	ae	$\begin{array}{c}1000\\1000\end{array}$	D (5)
KMOX ak 50000	С	St. Louis, Mo.	WMAZ XEFA	ak z	$1000 \\ 500$	
1100 kilocyc	eles		1190	ki	locy	cles
CRCV ak 1000 KGDM ak 1000	F D	Vancouver B. C. Stockton, Calif.	HIJ	z ak	15	1195
KWKH ae 10000 TIRC ak 75	Ĉ	Shreveport, La. San Jose C R	WATR WOAI	ak ak ak	100 50000 1000	D N
WLWL ae 5000 WPG ak 5000	1 1C	New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	WSAZ			
XEFG ak 250	1105	Mexico City, D. F.			locy	
1110 kilocyc	les		CHAB CKTB CMCJ	ak ak ak	$100 \\ 100 \\ 500$	F F
CMCO z 150 KSOO ak 2500	Dn	Havana, Cuba Sioux Fails, S. D.	KADA KBTM	ak ak	100 100	D D
WRVA ae 5000 XELO z 10000	Ň	Siour Fails, S. D. Richmond, Va. Piedras Negras, Co.	KFJB KFXD	ak ae	100 100	(.25)
	1	с	KFXJ KGDE	ak ak	100 100	(.25) (.25)
1120 kilocyc	les		KGEK KGFJ	ak ae	$100 \\ 100$	
CHLP z 100 CHSJ ae 100	F	Montreal, Que. St. John, N. B.	KGHI KMLB	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	(.25)
CKOC ae 500 CKX ak 100	F (1) F	Hamilton, Ont. Brandon, Man.	KOOS KSUN	ae ck	$250 \\ 100$	D D
CMGF ak 100 KFIO ak 100	D	Matanzas, Cuba Spokane, Wash. Los Angeles, Calif. Los Angeles, Calif. Scottico Wach	KVOS KWG	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	$\mathbf{c}^{\dots \in}$
KFSG ag 1000	a	Los Angeles, Calif.	KWG WABI	ak	100	
KRKD ae 1000 KRSC ck 100	a (2.5) D	Los Angeles, Calif. Seattle, Wash.	WAIM WBBZ	z ak	$\begin{array}{c} 100 \\ 100 \end{array}$	
WDEL ak 250	(.5) (1)	Wilmington, Del. Milwaukee, Wis.	WBNO WCAT	ck	100	1
WISN ak 250 WMFH z 500	(1) DP	Milwaukee, Wis. Boston Mass	WCAT WCAX	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	D
WTAW ae 500		Boston, Mass. College Station, Tex.	WCLO	ak	100	
****	•		WFAM WFBE	ak	$\begin{array}{c} 100 \\ 100 \end{array}$	8
1130 kilocyc	les		WHBC	ak ak	100	(.25) 2
CMJI ak 45		Ciego de Avila, Cuba	WHB Y WIBX	ak ak	100 100	(.25) (.3) C
KSL ae 50000 WJJD ak 20000	C	Ciego de Avila, Cuba Salt Lake City, Utah	WIL	ak	100	(.3) C (.25)
WJJD ak 20000 WOV ag 1000	Dn D	Chicago, Ill. New York, N. Y.	WJBC	ak	100	6
			WJBL WJBW	ae ak	100 100	6 1
1140 kilocyc	les		WKBO	ak	100	3 (.25)
CMBG z 325		Harris Cuba	WKJC WLVA	ae ak	$\begin{array}{c} 100 \\ 100 \end{array}$	3 (.25) (.25)
KVOO ak 25000	IN	Havana, Cuba Tulsa, Okla.	WMPC	ak	100	(.25)
WAP1 ae 5000	1N	Birmingham, Ala.	WRBL WWAE	ak ae	100 100	8
			10-AK	ak	15	
1150 kilocyc	les		10-BP	ak z	25 100	PD
CMJF z 200		Camaguey, Cuba				
WHAM ae 50000 XEH ak 250	В	Rochester, N. Y. Monterrey, N. L.	1210	kil	locyc	eles
XEWZ z 100		Merico City, D. F.	CHNC	ak	100	F
1160 kilocyc	100		CJCU CKBI	z ak	50 100	F
			CKCH	ak	100	F
WOWO ae 10000	1C	Fort Wayne, Ind.	CKMC	ak	50	••••
			57			

Wheeling, W. Va. Guadalajara, Jal. Tijuana, B. C.



Havana, Cuba Philadelphia, Pa.



Ciego de Avila, Cuba Portland, Ore. Albuquerque, N. M. Montmagny, Oue. Minneapolis, Minn. New York, N. Y. Macon, Ga. Mexico City, D. F.

Santo Domingo, D. R. Waterbury, Conn. San Antonio, Texas. Huntington, W. Va.

Г

cles	
F	Moose Jaw, Sask.
F	St. Catharines, Ont.
	Havana, Cuba
D	Ada, Okla.
D	Jonesboro, Ark.
(.25)	Marshalltown, Iowa
(.25)	Nampa, Idaho
(.25)	Grand Junction, Col.
(.25)	Fergus Falls, Minn.
	Sterling, Colo.
(.25)	Los Angeles, Calif.
(.25)	Little Rock, Ark. Monroe, La.
D	Marshfield, Ore.
Ď	Lowell, Ariz.
	Bellingham, Wash
C	Stockton, Calif.
~	Bangor, Malne
	Anderson, S. C.
	Ponca City, Okia
1	New Orleans, La.
D	New Orleans, La. Rapid City, S. D. Burlington, Vt. Janesville, Wis.
	Burlington, Vt.
	Janesville, Wis,
8	South Bend, Ind.
(.25) 2	Cincinnati, Ohio
2	Canton, Ohio
(.25)	Green Bay, Wis.
(.3) C	Utica, N. Y. St. Louis, Mo.
(.25)	St. Louis, Mo.
6	Bloomington, Ill.
6	Decatur, Ill.
1	New Orleans, La.
3 (.25) 3 (.25)	Harrisburg, Pa.
3 (.25)	Lancaster, Pa.
(.25) (.25)	Lynchburg, Va. Lapeer, Mich.
(.4.)	Columbus, Ga.
8	Hammond, Ind.
	Stratford Ont
	Stratford, Ont. Wingham, Ont.
PD	High Point, N. C.
	8

ycles

INC	ak	100	F
CU (BI	z ak	50 100	F
CH	ak	100	F
ſМС	ak	50	

New Carlisle, Que. Aklavik, N. W. T. Prince Albert, Sask. Hull, Que. Cobalt, Ont.

CMHI Kasa				
	ak	150		Santa Clara, Cuba Elk City, Okla. Devils Lake, N. D. Klamath Falls, Ore. Lincoln, Neb. Fort Smith, Ark. Cape Girardeau, Mo. San Bernardino, Cal. Olympia, Wash. Eureka, Calif. Garden City, Kans. Pasadena, Calif. Ardmore, Okla. Shreveport, La.
	ck	100		Elk City, Okla.
KDLR	ak	100		Devile Lake N D
KF.H	ak	100		Klamath Falls, Ore
KFJI KFOR	ak	100	(.25)C	Lincoln Nob
KFPW	ak	100	(.25)(Fort Smith Ark
KEVS		100	6 (.25)	Cano Cinandoau Mo
KFXM KGY KIEM	ae		0 (.25)	Cape Grandeau, Mo.
KFAM	ak	100	9	San Bernardino, Cal.
KGY	ak	100		Olympia, Wash.
KIEM	ak	100		Eureka, Calif.
KIUL	z	100	P	Garden City, Kans.
KIEM KIUL KPPC KVSO KWEA	ak	50	9	Pasadena, Calif.
K V SO	z	100	DP	Ardmore, Okla.
KWEA	z	100		Ardmore, Okla. Shreveport, La. Watertown, S. D.
	ak	100		Watertown, S. D.
WALR WBAX WBBL	ak	100		Zanesville, Ohio
WBAX	ae	100	1	Wilkes Barre, Pa.
WBBL	ak	100	S	Richmond Va.
WBRB	ak	100	S 3	Shreveport, La. Watertown, S. D. Zanesville, Ohio Wilkes Barre, Pa. Richmond, Va. Red Bank, N. J. Springfield, Ill. Columbus, Ohio Chicago, Ill.
WCBS	ak	100	0	Springfield III
WCBS WCOL	ak	100		Columbue Ohio
WCRW	ae	100	4	Springfield, III. Columbus, Ohio Chicago, III. Harrisburg, III. Chicado, III.
WERO	ae	100		Unanishund III
WEBO			6 (.25)	Chineste III
WEDČ WFAS WGBB	ae	100	4	Chicago, III.
WFAS	ak	100	3	white Plains, N. T.
WGBB	ae	100	3	Freeport, N. Y.
WGCM WGNY	ae	100	(.25)	Mississippi City
WGNY	ak	100	3	Chester, N. Y.
WHBE	ak	100	(.25)	Chicago, III. Harrisburg, III. Chicago, III. White Plains, N. Y. Freeport, N. Y. Mississippi City Chester, N. Y. Rock Island, III. Anderson Ind.
WHBU	ak	100	(.25) (.25)	Anderson, Ind. Poynette, Wis. Gadsden, Ala.
WIRL	ak	100	(.25)	Poynette, Wis.
WJBY WJEJ WJIM WJW	ak	100		Gadsden, Ala.
WJEJ	ah	100	D	Hagerstown, Md.
WJIM	z	100	(.25)	Lansing, Mich.
WJW	ak	100	()	Akron, Ohio
WKOK	ak	100	1	Sunbury Pa
WMBG	ak	100	Ĉ (.25)	Richmond Va
WMBG WMFG	z	100	P	Hibbing Minn
WMFN	z	100	P	Clarkedala Mise
WOCL	ak	50		Gaussien, Ana. Hagerstown, Md. Lansing, Mich. Akron, Ohio Sunbury, Pa. Richmond, Va. Hibbing, Minn. Clarksdale, Miss. Jamestown, N. Y.
WOOL		100		Jamestown, N. 1.
WDAY	ae		D	The second line Co
WOMT WPAX WSBC	ae	$\begin{array}{c} 100 \\ 100 \end{array}$	4	Thoma sville, Ga.
	ae			
WOIN		100	-	Chicago, In.
WSIX	ak	100		Spring field, Tenn.
WSIX	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	N (.25)	Spring field, Tenn. Charlotte, N. C.
WSIX WSOC WTAX	ak ak ak	$100 \\ 100 \\ 100$		Spring field, Tenn. Charlotte, N. C. Spring field, Ill.
WSIX WSOC WTAX	ak ak ak z	$100 \\ 100 \\ 100 \\ 50$		Spring field, Tenn. Charlotte, N. C. Spring field, Ill. Durango, Dgo.
WSIX WSOC WTAX XEE XEFV	ak ak ak z ak	100 100 100 50 100		Spring field, Tenn. Charlotte, N. C. Spring field, Ill. Durango, Dgo. Juarez, Chih.
WSIX WSOC WTAX	ak ak ak z	$100 \\ 100 \\ 100 \\ 50$		Clarksdale, Miss. Jamestown, N. Y. Manitowoc, Wis. Thomasville, Ga. Chicago, Ill. Spring field, Tenn. Charlotte, N. C. Spring field, Ill. Durango, Dgo. Juarez, Chih. Puebla. Pue.
WSIX WSOC WTAX XEE XEFV XEFV XETH	ak ak ak z ak ak	100 100 100 50 100 100	N (.25)	Spring field, Tenn. Charlo tte, N. C. Spring field, Ill. Durango, Dgo. Juarez, Chih. Puebla. Pue
WSIX WSOC WTAX XEE XEFV XEFV XETH	ak ak ak z ak ak	100 100 100 50 100 100	N (.25)	Spring field, Tenn. Charlotte, N. C. Spring field, Ill. Durango, Dgo. Juarez, Chih. Puebla. Pue
wsix wsoc wtax xee xefv xeth 1220	ak ak ak z ak ak	100 100 50 100 100 100	N (.25)	
wsix wsoc wtax xee xefv xeth 1220 cmje	ak ak z ak ak ak ki]	100 100 50 100 100 100 100	N (.25)	
wsix wsoc wtax xee xefv xeth 1220 cmje	ak ak z ak ak ak ki]	100 100 100 100 100 100 100 100 1000	N (.25)	
wsix wsoc wtax xee xefv xeth 1220 cmje	ak ak z ak ak ak	100 100 50 100 100 100 100 1000 50 1000	N (.25)	
wsix wsoc wtax xee xefv xeth 1220 cmje kfku ktw kwsc	ak ak ak z ak ak ki z ae ak	100 100 50 100 100 100 100 1000 50 1000	N (.25) cles a S2	
wsix wsoc wtax xee xefv xeth 1220 cmje kfku ktw kwsc wcad	ak ak z ak ak ak ki z ae ak ae	$ \begin{array}{r} 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ 100\\ 0\\ 0\\ 1000\\ 1000\\ 1000\\ 1000 \end{array} $	n (.25) cles a s2 2 (5) D	
wsix wsoc wtax xee xefv xeth 1220 cmje kfku ktw kwsc wcad	ak ak z ak ak ki z ae ak ae ak	$ \begin{array}{r} 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ 100\\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	n (.25) cles a s2 2 (5) D	
wsix wsoc wtax xee xefv xeth 1220 cmje kfku ktw kwsc wcad	ak ak z ak ak k z ae ak ae ak ak	100 100 50 100 100 100 1000 1000 1000 1	n (.25) cles a s2 2 (5) D	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa Ela
wsix wsoc wtax xee xefv xeth 1220 cmje kfku ktw kwsc wcad wcae wdae	ak ak ak z ak ak z ae ak ae ak ae	100 100 50 100 100 100 1000 1000 1000 1	n (.25) n (.25) cles a s2 2 (5) D R C (2.5)	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa Ela
wsix wsoc wtax xee xefv xefv xeth 1220 cmje kfku ktw kwsc wcad wcae wdae wren	ak ak z ak ak z ae ak ae ak ae ak ae ak	$ \begin{array}{r} 100\\100\\50\\100\\50\\100\\100\\100\\1000\\1000$	n (.25) cles a s2 2 (5) D	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa Ela
wsix wsoc wtax xee xefv xeth 1220 CMJE KFKU KTW KWSC WCAE WCAE WCAE WCAE WCAE	ak ak ak z ak z ak ak z ak ak ak ak ak z	$\begin{array}{c} 100\\ 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ 0\\ 0\\ 0\\ 0\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 12\\ \end{array}$	N (.25) cles a S2 2 (5) D R C (2.5) Ba(5) 	
wsix wsoc wtax xee xefv xeth 1220 CMJE KFKU KTW KWSC WCAE WCAE WCAE WCAE WCAE	ak ak ak z ak z ak ak z ak ak ak ak ak z	$\begin{array}{c} 100\\ 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ 0\\ 0\\ 0\\ 0\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 12\\ \end{array}$	N (.25) cles a S2 2 (5) D R C (2.5) Ba(5) 	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa Ela
wsix wsoc wtax xee xefv xeth 1220 CMJE KFKU KTW KWSC WCAE WCAE WCAE WCAE WCAE	ak ak ak z ak z ak ak z ak ak ak ak ak z	$\begin{array}{c} 100\\ 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ 0\\ 0\\ 0\\ 0\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 12\\ \end{array}$	N (.25) cles a S2 2 (5) D R C (2.5) Ba(5) 	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa Ela
wsiax wsoc xefv xefv xefv xeth 1220 CMJe kfku ktw kwsc wcad wcae wdae wdae wdae 1230	ak ak z ak z ak ak z ak ak ak ak ak z ki	100 100 50 100 100 100 1000 1000 1000 1	$\begin{array}{c} & \ddots & \ddots \\ & N & (.25) \\ & \ddots & \ddots \\ & \ddots & \ddots \\ cles \\ & & \\ & $	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fia. Lawrence, Kas. Veracruz, Ver.
wsiax wsoc xefv xefv xefv xeth 1220 CMJe kfku ktw kwsc wcad wcae wdae wdae wdae 1230	ak ak ak z ak ak z ak ak ak ak z ak ak z ak	100 100 50 100 100 100 1000 1000 1000 1	N (.25) cles a S2 2 (5) D R C (2.5) Ba(5) 	Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver.
wsiax wsoc xefv xefv xefv xeth 1220 CMJe kfku ktw kwsc wcad wcae wdae wdae wdae 1230	ak ak ak z ak z ak ak ak z ak ak z ak ak z ak	$100 \\ 100 \\ 100 \\ 50 \\ 100 \\ 100 \\ 100 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 12 \\ 1000 \\ 12 \\ 100 \\ 12 \\ 100 \\ 110 \\ 100 \\ 110 \\ 100 \\$	$\begin{array}{c} & \ddots & \ddots \\ & N & (.25) \\ & \ddots & \ddots \\ & \ddots & \ddots \\ cles \\ & & \\ & $	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba
wsiax wsoax xef xefv xefv xefh 1220 CMJE kfku ktw ktw ktw ktw ktw ktw ktw ktw ktw ktw	ak ak z ak z ak ak z ak ak ak z ak ak z a ak a a a a	$100 \\ 100 \\ 100 \\ 50 \\ 100 \\ 100 \\ 100 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 12 \\ 1000 \\ 12 \\ 100 \\ 12 \\ 100 \\ 110 \\ 100 \\ 110 \\ 100 \\$	N (.25) cles a 2 (5) D R C (2.5) Ba(5) cles F 	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba
wsiax wsoax xee xefv xeth 1220 cmje kfku ktw kwsad wcae wcae wcae wcae xeff 1230 cjoc cmcb kggx kggx	akkazaka Kzaakaakaakzii akkkak	100 100 100 50 100 100 1000 1000 1000 1	N (.25) cles a 2 (5) D R C (2.5) Ba(5) cles F 	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuonerque, N. M.
wsia wsoc xee xefv xeff 1220 cmje kfku wcae wdae wdae wdae wdae tr f 1230 cjoc cmcb kgbx kggm kya	akakzak il zaakaakaakz Kakkakaa	100 100 100 50 100 100 1000 1000 1000 1		Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuonerque, N. M.
wsiax wsiax xefv xefv xefv xeff 1220 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktr ktr ktr ktr ktr ktr ktr ktr ktr ktr	akak ak zak ak zak ak zak ak ak zak ak zak ak zak ak zak ak zak ak zak z	$\begin{array}{c} 100\\ 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ \hline \\ 000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 12\\ \hline \\ 000\\ 112\\ \hline \\ 000\\ 112\\ \hline \\ 000\\ 112\\ \hline \\ 000\\ 100\\ 10$	N (.25) N (.25) Cles S2 2 (5) D R C (2.5) Ba(5) N C C Les F (.5) N C	Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis Ind.
wsiax wsiax xefv xefv xefv xeff 1220 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktr ktr ktr ktr ktr ktr ktr ktr ktr ktr	akakzak il zaakaakaa Kakkkaaaaak	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis Ind.
wsia wsoc wtax xef xefv xeff 1220 cmje kfku wcad wcae wdae wdae wdae wdae tr f 1230 cjoc cmcb kgbx kggm kya	akak ak zak ak zak ak zak ak ak zak ak zak ak zak ak zak ak zak ak zak z	$\begin{array}{c} 100\\ 100\\ 100\\ 50\\ 100\\ 100\\ 100\\ \hline \\ 000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 12\\ \hline \\ 000\\ 112\\ \hline \\ 000\\ 112\\ \hline \\ 000\\ 112\\ \hline \\ 000\\ 100\\ 10$	N (.25) N (.25) Cles S2 2 (5) D R C (2.5) Ba(5) N C C Les F (.5) N C	Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis Ind.
wsiak wsok xee xeev xeev xeev xeev kev kev wcae wdae wdae wdae wdae wdae wdae wdae kev xeev xeev xeev kev xee kfku cjoc cmcb kgbx kgbx kya wfay xeef xeev xeev xeev xeev xeev xeev xeev	akak il zaakaakaa Kakkakaaaak	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$	$\begin{array}{c} & \ddots & \ddots \\ N & (.25) \\ & \ddots & \ddots \\ cles \\ & z_2 \\ (5) \\ D \\ R \\ C \\ (2.5) \\ Ba(5) \\ & \cdots \\ cles \\ F \\ & \ddots \\ (.5) \\ N \\ C \\ C \\ (2.5) \\ N \\ C \\ C \\ (2.5) \\ \cdots \\ \end{array}$	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuonerque, N. M.
wsiak wsok xee xeev xeev xeev xeev kev kev wcae wdae wdae wdae wdae wdae wdae wdae kev xeev xeev xeev kev xee kfku cjoc cmcb kgbx kgbx kya wfay xeef xeev xeev xeev xeev xeev xeev xeev	akak il zaakaakaa Kakkakaaaak	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$	$\begin{array}{c} & \ddots & \ddots \\ N & (.25) \\ & \ddots & \ddots \\ cles \\ & z_2 \\ (5) \\ D \\ R \\ C \\ (2.5) \\ Ba(5) \\ & \cdots \\ cles \\ F \\ & \ddots \\ (.5) \\ N \\ C \\ C \\ (2.5) \\ N \\ C \\ C \\ (2.5) \\ \cdots \\ \end{array}$	Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.
wsiac wsac xee xefv xeth 1220 cmje kfku ktw kwsac wcae wdae wdae wdae wdae wdae kfku cjoc cmcb kgbx kga kga kfga kfga tad 1230 cmse tf 1230 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktw ktw ktw	akkazaka Kil zaakaakaz Kakakaaaaka Kil	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.
wsiax wsoax xef xefv xefv xeff kfku kwso wcae wdae wdae wdae wdae wdae kggm xeff 1230 Cjoc cmcb kggm kya wfbm wfay xefy xeff kggm xeff zef y zef kfku ku ko ko zef y xeff xef xef xef xef xef xef xef xef xe	akak zaaaaaaaaaaa zaaaaaaaa zaaaaaaa zaaaaaa	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.
wsiak wsok wsok wsok wsok wsok wsok wsok wso	akkkzaka K zaakaakaaaz K akakkaaaakk kaz	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Callf. Indianapolis, Ind. Boston, Mass. Monterrey, N. L. Sydney, N. S. San Sprintum Cuba
wsiac wsac xef xef xef xef xef xef xef xef xef xef	akkkzak II zaakaakaaaz Kakkaaaaak Kazak	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Callf. Indianapolis, Ind. Boston, Mass. Monterrey, N. L. Sydney, N. S. San Sprintum Cuba
wsiak wsiak wsoc wtax xee xefv xeth 1220 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktw ktw ktw	akak aaka zaakaa aaka aaka aaka aaka aa	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Callf. Indianapolis, Ind. Boston, Mass. Monterrey, N. L. Sydney, N. S. San Sprintum Cuba
wsiak wsiak wsoc wtax xee xefv xeth 1220 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktw ktw ktw	akak aaka zaakaa aaka aaka aaka aaka aa	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Callf. Indianapolis, Ind. Boston, Mass. Monterrey, N. L. Sydney, N. S. San Sprintum Cuba
wsiak wsiak wsoc wtax xee xefv xeth 1220 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktw ktw ktw	akak aaka zaakaa aaka aaka aaka aaka aa	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pitrsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L. Sydney, N. S. San Spiritus, Cuba Mandan, N. D. Minot, N. D. Fort Worth, Texas Twin Falls. Idaho
wsiac wsac xef xef xef xef xef xef xef xef xef xef	akak aaka zaakaa aaka aaka aaka aaka aa	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.
wsiak wsiak wsoc wtax xee xefv xeth 1220 cmje kfku ktw ktw ktw ktw ktw ktw ktw ktw ktw ktw	akak aaka zaakaa aaka aaka aaka aaka aa	$\begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$		Camaguey, Luba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pitrsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L. Sydney, N. S. San Spiritus, Cuba Mandan, N. D. Minot, N. D. Fort Worth, Texas Twin Falls. Idaho

WXYZ	ak	1000			De
XEAI	z	100			Me
XEKL	z	500			Lee
XELA	z	50			Sal

1250 kilocycles

CMCG	z	162	1255
CMKC	z	150	
KFOX	ae	1000	
WCAL	ah	1000	2 (2.5)
WDSU	ak	1000	С
WHBI	ak	1000	a (2,5)
WLB	ak	1000	2
WNEW	ae	1000	a (2,5)
WTCN	ak	1000	2 (5)

1260 kilocycles

CFRN	ak	100	
KGVO	ak	1000	
KOIL	ak	1000	B (2.5)
KPAC	ak	500	D
KRGV	ak	500	
KUOA	ak	1000	D
KVOA	ak	500	
WHIO	ae	1000	R
WNBX	ak	1000	D
WTOC	ae	1000	С

1270 kilocycles

CMCP	z	150	
CMHD	dk	250	
HIX	ak	1000	
KGCA	ak	100	2D
KOL	ae	1000	C (2.5)
KŪOR	ae	1000	Ć 🐪
KWLC	ak	100	2D
WASH	ak	500	а
WFBR	ae	500	R
WJDX	ae	1000	N (2.5)
WOOD	ak	50.0	a
XEG	z	500	
XFB	ak	1000	
1280	ki	locy	cles
KFBB	ae	1000	(2.5)
WCAM	ae	500	1
WCAP	90	500	ī

CA I 86 WORC ak C (5) N C 1000 1000 500 WRR al WTNJ al XEMX z 500 ak i A 500 ak 12

1290 kilocycles

KDYL	ak	1000	N
KLCN	z	100	D
KTRH	ak	500	C (5)
WEBC	ae	1000	N (2.5)
WJAS	ak	1000	C (2.5)
WNBZ	z	100	D
WNEL	ak	500	_

1300 kilocycles

		•	
CMKJ	z	20	
HIZ	z	10	
KALE	ak	500	3C
KFAC	ak	1000	
KFH	ak	1000	C2
KFJR	ag	500	3
WBBR	ae	1000	1
WEVD	ak	1000	1
WFAB	ae	1000	ī
WFBC	ak	1000	(5)

etroit, Mich. exico City, D. F. on. Guan. Itillo, Coah.

Havana, Cuba Santiago, Cuba Long Beach, Calif. Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn. Newark, N. J. Minneapolis, Minn.

Edmonton, Alta. Missoula, Mont. Council Bluffs, Iowa Port Arthur, Teras Weslaco, Teras Fayetteville, Ark. Tucson, Ariz Dayton, Ohio Springfield, Vt. Savannah, Ga.

Havana, Cuba Caibarien, Cuba Santo Domingo, D.R. Decorah, Iowa Seattle, Wash. Colorado Spgs., Colo. Decorah, Iowa Grand Rapids, Mich. Baltimore, Md. Jackson, Miss. Grand Rapids, Mich. Ensenada, B. C. Jalapa, Ver.

Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas Trenton, N. J. Mexico City, D. F.

Salt Lake City, Utah Blytheville, Ark. Houston, Texas Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.

Guantanamo, Cuba Santo Domingo, D.R. Santo Domingo, D. F. Portland, Ore. Los Angeles, Calif. Wichita, Kans. Portland, Ore. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C.

WHAZ WIOD	ae ae	500 1000	1 N	Troy, N. Y. Miami, Fla.	W W W
1310	kil	ocvo	eles	·	
CHCK	ak	50		Charlottetown, P.E.I.	1
CJKL CJLS	Z Z	$100 \\ 100$		Kirkland Lake, Ont Yarmouth, N. S.	K K K W W X
CKCV	ak	50	F	Quebec, Que,	ĸ
KCRJ KFBK	ak ak	100 100	D C	Sacramento, Calif.	W
KFPL KFXR	dkh	$100 \\ 100$	(.25) (.25)	Dublin, Texas	w
KEVO	ak ak	100	(.25)	Oklahoma City, Ok. Lubbock, Texas	х
KGCX KGEZ KGFW	ak ai	100 100	(.25)	Wolf Point, Mont. Kalispell, Mont.	1
KGFW	aj ak	100 100	(.25)	Lubbock, Iexas Wolf Point, Mont. Kalispell, Mont. Kearney, Neb. Yakima, Wash. Santa Fe, N. Mex. Medford, Ore. Shrevenort La.	
KIT KIUJ	ak z	100 100		Santa Fe, N. Mex.	C
KMED KRMD	ck ak	100 100	(.25)	Medford, Ore. Shreveport La.	K K W W
KROC KTSM	Z	100	P	Medford, Ore. Shreveport, La. Rochester, Minn. El Paso, Texas Aberdeen, Wash.	ŵ
KTSM KXRO	ak ak	100 100		El Paso, lexas Aberdeen, Wash.	
WAML	ak	100 100		Laurei, Miss.	1
WBEO WBOW	ae ak	100		Marquette, Mich. Terre Haute, Ind.	C
WBRE WCLS	ak ae	$100 \\ 100$		Wilkes Barre, Pa.	
WCMI	z	100	DP .	Ashland, Ky. El Paso, Texas Buffalo, N. Y. Royal Oak, Mich. Altoona, Pa.	W
WDAH WEBR	ak ae	$100 \\ 100$	S (.25)	Buffalo, N. Y.	Ŵ
WEXL WFBG	ak	50 100	3	Royal Oak, Mich.	N U
WFDF	ae am	100 100 100	10000	Flint, Mich.	
WGH WHAT	ae ak	$100 \\ 100$	(.25)	Altoona, Pa. Flint, Mich. Newport News, Va. Philad elphia, Pa. Johnstown, Pa.	1
WJAC	ae	100 50	3	Johnstown, Pa.	C
WLBC WLNH	ak ak	100	6 (.1) D	Laconia, N. H.	K
WMBO WMFF	ak z	100 100	D D	Muncie, Ind. Laconia, N. H. Auburn, N. Y. Plattsburg, N. Y. New Bedford, Mass. Washington, D. C. Pagding Pa	K
WNBH	ae	100	(.25) 0	New Bedford, Mass.	ĸ
WOL WRAW	ae ak	$\begin{array}{c} 100 \\ 100 \end{array}$	(.25) A	Reading, Pa.	K
WSAI	ak ae	100 100		Reading, Pa. Knoxville, Tenn. Grove City, Pa.	K
WSGN	ak	100	(.25)	Birmingham, Ala.	ĸ
WSJS WTAL WTEL	ak z	100 100	(.25) C P	Winston-Salem, N.C. Tallahassee, Fla.	K
WTEL WTJS	ah ak	100 100	4 (.25)		K
WTRC	ak	50	6 (.1)	Jackson, Tenn. Jackson, Tenn. Elkhart, Ind. Cazaca, Camp. Tijuana, B. C. Merico City, D. F. Merida Yuc	K
XEAJ XEC XECW	Z Z	15 50		Cazaca, Camp. Tijuana, B. C.	K
XECW	Z	10		Mexico City, D. F.	ĸ
XEFC XEFW	ak ak	$100 \\ 250$		Merida, Yuc. Tampico, Tams. Mineral del Monte	K
XELM XETB	z z	15 125	2.125 7.115	Mineral del Monte Torreon, Coah.	K
XEX	ak	125	P	Monterrey, N. L. Lafayette, La.	K
••••	z	100	r	Latayette, La.	K
1320		locy			CCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK
CMCK CMOX	ZZ	$\frac{100}{250}$	Р	Havana, Cuba Havana, Cuba Puebio, Colo. Honoiulu, T. H. Liche Felle, Liche	V
KGHF	ak	500 250	C	Pueblo, Colo.	Ý
KGME KID	ak ae	250	(.5)	Honolulu, T. H. Idaho Falls, Idaho Des Moines, Iowa	v
KRNT	ak ae	500 1000	(.5) C (1) C (2.5)	Des Moines, Iowa Akron, Ohio	V V
WADC WORK	ak	1000		Akron, Ohio York, Pa. New Orleans, La.	v
WSMB		1000	N	New Orleans, La.	v
		locy	cles		V
CMHK KGB	z ag	250 1000	C (2.5)	Cruces, Cuba San Diego, Calif.	
KGB KMO KSCJ	ag ak	250 1000	10/2 =	San Diego, Calif. Tacoma, Wash.) Sioux City, Iowa	N N
PSCI	aj	1000	10 (2.5	J SIGUL CITY, IOWR	

VDRC	ak	1000	C (2.5)	Hartford, Co
VSAI		1000	R (2.5)	Cincinnati, C
VTAQ		1000	1	Eau Claire,

1340 kilocycles

KFPY	ak	1000	С
KGDY	ak	250	D
KGNO	ak	250	. .
WCOA	ak	500	С
WFEA	ae	500	C (1)
WSPD	ae	1000	C (2.5)
XFD	z	250	

1350 kilocycles

CMCA KIDO KWK WAWZ	z ak ak ae	435 1000 1000 500	(2.5) B (5) 1 (1)
WAWZ		250	1 (1)
W DINA	ae	230	1

1360 kilocycles

СМЈН	ak	50	
KGER	ak	1000	
KGIR	ak	1000	N (2.5)
WCSC	ae	500	(1)
WFBL	ak	1000	C (5)
WGES	ae	500	1
WOBC	ak	1000	D
WSBT	ak	500	1

1370 kilocycles

CKCW z	100	F
CMGE z	30	
KAST z	100	DP
KCRC ak	100	2 (.25)
KELD z	100	P ``
KERN ak	100	
KFGQ ak	100	
KFJM ak	100	(.25)
KFJZ ae	100	
KFRO z	100	D
KGAR ae	-100	(.25)
KGFG bk	100	2
KGFL ak	100	4
KGKL ak	100	(.25)
KICA ak	100	4
KLUF 7	100	(.25)
KMAC ak	100	5
KONO ak	100	5
KRE ak	100	(.25) 5 (.25)
KRKO ak	50	1
KSLM z	100	
KUJ ak	100	2 * * * *
KVL ak KWKC z	100	1
KWKC z	100	
KWYO ak	100	1
WABY ak	100	(DE)
WAGF ak	100	(.25)
WBTM ak	100 100	(.25) (.25) A
WCBM ae WDAS ae	100	(.25) A (.25)
	100	C 23)
WGL ak WHBO ak	100	
WHDF ak	100	(25)
WIBM ak	100	(.25) (.25)
WJTL ae	100	(.20)
WLLH ak	100	(.25)
WMBR ak	100	Ċ,
WMFD z	100	ĎР
WMFO z	100	ĎP
WOC z	100	Č (.25)
WPAY ak	100	
WPFB ak	100	
WODM ae	100	D
WRAK ak	100	(.25)

onn. Ohio Wis.

Spokane, Wash. Huron, S. D. Dodge Clty, Kans. Pensacola, Fla. Manchester, N. H. Toledo, Ohio Orizaba, Ver.

Havana, Cuba Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.

Ciego de Avila, Cuba Long Beach, Calif. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.

Moncton, N. B.
Moncton, N. B. Cardenas, Cuba
Astoria, Ore.
Astonia, ore.
Enid, Okla.
El Dorado, Ark.
Bakersfield, Calif.
Boone, Iowa
Boone, Iowa Grand Forks, N. D.
Fort Worth, Texas
Longview, Texas
Tucson, Ariz.
Oblahama City Ok
Oklahoma City, Ok.
Roswell, N. M. San Angelo, Texas
San Angelo, Texas
Clovis, N. M.
San Antonio, Texas San Antonio, Texas
San Antonio Teras
Berkeley Celif
Enorott Wosh
Everett, wash.
Berkeley, Calif. Everett, Wash. Salem, Ore. Walla Walla, Wash. Seattle, Wash.
Walla Walla, wash.
Seattle, Wash.
Sheridan, Wyo. Albany, N. Y.
Albany, N. Y.
Dothan, Ala.
Danville, Va.
Baltimore, Md.
Daltimore, Mu.
Philadelphia, Pa.
Fort Wayne, Ind.
Memphis, Tenn. Calumet, Mich.
Calumet, Mich.
Jackson, Mich.
Jackson, Mich. Atlanta, Ga.
Lowell, Mass.
Locksonville Fla
Jacksonville, Fla. Wilmington, N. C.
Winnington, N. O.
Decatur, Ala.
Davenport, Iowa
Portsmouth, Ohio
Hattiesburg, Miss.
Portsmouth, Ohio Hattiesburg, Miss. St. Albans, Vt.
Williamsport, Pa.

Augusta Maina

WRDO ae 10 WRJN ak 10	10	Augusta, Maine Racine, Wis. Buffalo, N. Y. Mexico City, D. F. Mexico Mak
WSVS ak 5	D D	Buffalo, N. Y.
XEFZ ae 10 XEI ak 12 XEZZ z 10		Mexico City, D. F.
XEZZ z 10		Morelia, Mch. San Luis Potosi, SLP
1380 kiloc	ycles	
CMBX ak 17	1	Havana, Cuba
CMJC z 15 KOH ak 50	0 0 C	Camaguey, Cuba Reno, Nev.
KOV ak 50		Reno, Nev. Pittsburgh, Pa.
WALA ae 50	0 C (1)	Mobile, Ala. LaCrosse Wis.
WKBH ae 100 WMFE z 25	U	LaCrosse Wis. New Britain, Conn.
WSMK ak 20	ŏ Č	Dayton, Ohio
1390 kiloc	veles	
CJRC ck 10	J CICS	
HIH ak 1	5 1395 Sa	Winnipeg, Man. n Ped. de Macoris, DR Little Rock, Ark. Phoenia Aria
KLRA ac 100	0 C (2.5)	Little Rock, Ark.
KOY ae 50 WHK ae 100		Phoenix, Ariz. Cleveland, Ohio
		entrement, entre
1400 kiloc	ycles	
CMGC z 10		Matanzas, Cuba
KLO ae 50 KTUL ak 50	$\vec{\mathbf{C}}$	Ogden, Utah Tulsa, Okla.
TGX ak 15	0	
WARD ak 50 WBBC ae 50	$\begin{pmatrix} 0 & 2 \\ 0 & 2 & (1) \end{pmatrix}$	Brooklyn, N. Y.
WIRE ak 50	0 R (1)	Indianapolis, Ind.
WLTH ak 50 WVFW ak 50	U 2	Brooklyn, N. Y. Brooklyn, N. Y. Indianapolis, Ind. Brooklyn, N. Y. Brooklyn, N. Y.
		Brooklyn, N. Y.
1410 kiloc	-	
CKFC ak 5 CKMO ag 10		Vancouver, B. C. Vancouver, B. C.
CMCP ~ 12)	Havana, Guba
KGRS ae 100 WAAB ak 50 WBCM ae 50 WDAG ae 100 WURL ac 50		Amarino, Texas
WBCM ae 50	0	Bay City, Mich.
WDAG ae 190 WHBL ae 50	0 1 (2.5) 0 4	Amarillo, Texas
WHIS ak 25	0 2(.5)	Bluefield, W. Va.
WRBX ae 25 WROK ak 50	0 2 (.Ś) 0 4	Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montdomery Ala
WROK ak 50 WSFA ak 50	0 C (1)	Rockford, III. Montgomery, Ala.
		,
1420 kiloc	ycles	
CKGB ak 10 CKNC ak 10		Timmins, Ont. Toronto, Ont. Colon, Cuba
CKNC ak 10 CMGI z 3	0 0	Colon, Cuba
KABC ak 10	0	San Antonio, Texas
KABR z 10 KBPS aj 10	0 0	San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco. Col
KCMCak 10		Texarkana, Ark.
KFIZ ak 10 KGFF ak 10	0	Fond du Lac, Wis.
KGFF ak 100 KGFF ak 100 KGGC ak 100 KGIW ak 100 KIDW z 100 KIUN z 100 KORE ac 100		Shawnee, Okla. San Francisco, Cal.
KGIW ak 10	0 1	Alamosa Colo
KGIX ak 10 KIDW z 10		Las Vegas, Nev.
KIUN z 10		Lamar, Colo. Pecos, Texas
KORE ac 10 KRLC 7 10	0	Eugene, Ore.
KUMA ak 10	0)	Eugene, Ore. Lewiston, Idaho Yuma, Ariz.
KUMA ak 10	0))	Lewiston, Idaho Yuma, Ariz. Hutchinson Kans
KUUA ak 100 KUMA ak 100 KWBG z 100 KXL ae 100 WACO ak 100	0))	Lewiston, Idaho Yuma, Ariz. Hutchinson Kans
KUUA ak 100 KUMA ak 100 KWBG z 100 KXL ae 100 WACO ak 100	0 0 P 0 4 (.25) 0 C	Lewiston, Idaho Yuma, Ariz. Hutchinson Kans
KUCA ak 100 KUMA ak 100 KWBG z 100 KXL ae 100 WACO ak 100 WAGM ae 100 WAZL ak 100 WEED ak 100	0 0 P 0 4 (.25) 0 C 0 2	Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans. Portland, Ore. Waco, Texas Presque Isle, Maine Hazleton, Pa
KUC 2 100 KUMA ak 100 KWBG z 100 KXL ae 100 WACO ak 100 WAGM ae 100 WAGM ae 100	0 0 P 0 4 (.25) 0 C 0 0 2 3 3	Lewiston, Idaho Yuma, Ariz. Hutchinson Kans

WRDO ae

100

WEHS	ak	100	a	Cicero, Ill.
WELL	ak	100		Battle Creel
WGPC	ak	100		Albany, Ga.
WHDL	ak			
		100	D	Olean, N. Y
WHFC	ae	100	a*	Cicero, Ill.
WILM	aj	100	2	Wilmington
WJBO	z	100		Baton Roug
WJMS	ak	100		Ironwood, 1
WKBI	ak	100	a	Cicero, III,
WLAP	ak	100	(.25)	Lexington,
WLBF	ak	100		Kansas City
WLEU	z	100	(.25)	Erie, Pa.
WMAS	ak	100	C (.25)	Springfield,
WMBC	ae	100	(.25)	Detroit, Mid
WMBH	ak	100	(.25)	Joplin, Mo.
WMFJ	z	100	P	Daytona Bea
WNRA	ak	100	D	Muscle Sho
WPAD	ak	100	(.25)	Paducah, K
WPRP	z	100	P (.25)	Ponce, P. R.
WWC	z	1000	P	
XEAZ	_	7	-	Spartanburg
	z .			Guanjuato,
XEFB	ak	100	1914 A.A.A.	Monterrey,
	z	100	Р	Parkersburg

1430 kilocycles

CMJP KECA KGNF KSO WBNS WHEC WHP WNBR WOKO	ak ak ak ae ae ak ae	$\begin{array}{r} 75\\ 1000\\ 1000\\ 250\\ 500\\ 500\\ 500\\ 500\\ 500\\ 500\\ $	(5) D B (.5) C (1) C (1) C (1) (1) C (1)
woko	ae	500	C (1)

1440 kilocycles

KDFN KLS KX YZ TIFS WBIG WCBA WMBD	ak ae ak z ae aj ae	500 250 1000 7.5 500 500 500	D (1441) C (1) a C (1)
WMBD WSAN	ae aj	500 500	C(1) a
XEFI	ae	250	

1450 kilocycles

CFCT CHGS	ae ae	75 50	F		•	•	
KTBS WGAR	ck ak	1000 500	N B	(1)	
WHOM WSAR	ae	250 250					
WTFI	ae ak	500					

1460 kilocycles

1470 kilocycles KGA ak WLAC ak 5000 N (2.5) C 5000

1480 kilocycles KOMA ak WKBW ae 5000 C 5000

1490 kilocycles WCKY ae 5000 в

k, Mich. n, Del. ge, La. Mich. Ky. y, Kans. Mass. ch. ach, Fla. bals, Ala. ν. g, S. C. Gto. N. L. 2, W. Va.

Moron, Cuba Los Angeles, Calif. North Platte, Neb. Des Moines. Iowa Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.

Casper, Wyo. Oakland, Calif. Houston, Texas Cartago. C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa Chihuahua, Chih.

Victoria, B. C

Summerside, P.E.I. Shreveport, La. Cieveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga.

Holquin, Cuba St. Paul, Minn. Washington, D. C.

		_
okane.	Wash	

Spokane, Wasn. Nashville, Tenn.

Oklahoma City, Ok. Buffalo, N. Y.



60

1500 ki	ilocy	cles		WMBO ae WMEX ak		1 (.25) A	Brooklyn, N. Y. Boston, Mass.
CMCN z	162		Havana, Cuba	WNBF ae		(.25) C	Binghamton, N. Y.
KDB ak	100	C	Santa Barbara, Calif.			• •	
				WOPI ae			Bristol, Tenn.
	100	(.25)	Corpus Christi, Tex.	WRDW ak			Augusta, Ga.
KGFK ak	100	Y	Moorhead, Minn.	WRGA ak		(.25)	Rome, Ga.
KGKB ak	100		Tyler, Texas	WSYB ak		21.11.	Rutland, Vt.
KGKY ck	100	(.25)	Scottsbluff, Neb.	WTMV z	100	Р	East St. Louis, Ill.
KNOW ak	100		Austin, Texas	WWRL ak	100	1 (.25)	Woodside, N. Y.
KOTN ak	100	D	Pine Bluff, Ark.	WWSW ae	100	(.25)	Pittsburgh, Pa.
KPJM ak	100		Prescott, Ariz,	Z	100	P	St. Louis, Mo.
KPLC z	100	P	Lake Charles, La.			-	
KPQ ak	100	(.25)	Wenatchee, Wash.	1510 k	ilocvo	cles	
KREG ak	100		Santa Ana, Calif.	CFRC ak			Kingston, Ont.
KXO ae	100		El Centro, Calif.				
WCNW ak	100	1 (.25)	Brooklyn, N. Y.				Waterloo, Ont
WDNC ak	100	Č	Durham, N. C.	1530 k	10000	105	
WGAL ae	100	(.25)	Lancaster, Pa.	1000 K	посус	163	
WHEF z	100	(.25)	Kosciusko, Miss.	W1XBS z	1000	A	Waterbury, Conn.
WJBK ae	100	(.25)		W9XBYz	1000		Kansas City, Mo.
	100		Detroit, Mich.				
		(.25)	E. Dubuque, Ill.	1550 k	ilocva	rles	
WKBV ak	100	1.221	Richmond, Ind.				
WKBZ ak	100	(.25)	Muskegon, Mich.	W2XR z	1000	22222	Long Isl. City, N. Y.
WKEU ak	100		Griffin, Ga.	W6XAI z	1000		Bakersfield, Calif.

INDEX BY LOCATIONS

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

ALABAMA	Hot Springs	Modesto	Pueblo
Birmingham	KTHS 1060 10000 N	KTRB 740 250	KGHF 1320 500
WAPI 1140 5000 N	Jonesboro	Oakland	Sterling
WBRC 930 1000 C	KBTM 1200 100	KLS 1440 250	KGEK 1200 100
WSGN 1310 100	Little Rock	KLX 880 1000	
Decatur	KARK 890 250	KROW 930 1000	CONNECTICUT
WMFO 1370 100	KGHI 1200 100	Pasadena	Bridgeport
Dothan	KLRA 1390 1000 C	KPPC 1210 50	WICC 600 500 C
WAGE 1370 100	Pine Bluff	Sacramento	Hartford
Gadsden	KOTN 1500 100	KFBK 1310 100 C	WDRC 1330 1000 C
WJBY 1210 100	Texarkana	San Bernardino	WTIC 1040 50000 R
Mobile	KCMC 1420 100	KFXM 1210 100	New Britain
WALA 1380 500 C	CALIFORNIA	San Diego	WMFE 1380 250
Montgomery	Bakersfield	KFSD 600 1000 N	New Haven
WSFA 1410 500 C	KERN 1370 100 C	KGB 1330 1000 C	WMFI 900 500
Muscle Shoals	W6XAI 1550 1000	San Francisco	Storrs
WNRA 1420 100	Berkeley	KFRC 610 1000 C	WCAC 600 500
	KRE 1370 100	KGGC 1420 100	Waterbury
ALASKA	Beverly Hills	KGO 790 7500 N	WATR 1190 100
Anchorage KFOD 780 250	KMPC 710 500	KJBS 1070 500	W1XBS 1530 1000 A
	Burbank	KPO 680 50000 N	DELAWARE
Juneau KINY 610 250	KELW 780 500	KTAB 560 1000	Wilmington
	Chico	KYA 1230 1000 N	WDEL 1120 250 A
Ketchikan	KHSL 950 250	San Jose	WILM 1420 100
KGBU 900 500	El Centra	KOW 1010 1000	
ARIZONA	KXO 1500 100	Santa Ana	DISTRICT OF
Jerome	Eureka	KREG 1500 100	COLUMBIA
KCRJ 1310 100	KIEM 1210 100	Santa Barbara	Washington WJSV 1460 10000 C
Lowell	Fresno	KDB 1500 100 C	WJSV 1460 10000 C WMAL 630 250 B
KSUN 1200 100	KMJ 580 1000 C	Stockton	WOL 1310 100 A
Phoenix	Glendale	KGDM 1100 1000	WRC 950 500 R
KOY 1390 500	KIEV 850 250	KWG 1200 100 C	
KTAR 620 1000 N	Hollywood	COLORADO	FLORIDA
Prescott	KFWB 950 1000	Alamosa	Clearwater
KPJM 1500 100	KMTR 570 1000	KGIW 1420 100	WFLA 620 1000 N
Tucson	KNX 1050 50000	Colorado Springs	Daytona Beach
KGAR 1370 100	Long Beach	KVOR 1270 1000 C	WMFJ 1420 100
KVOA 1260 500	KFOX 1250 1000	Denver	Gainesville
Yuma			WRUF 830 5000
	KGER 1360 1000	KFEL 920 500	
KUMA 1420 100	KGER 1360 1000 Los Angeles		
KUMA 1420 100 Arkansas	Los Angeles		Jacksonville WJAX 900 1000 N
	Los Angeles	KLZ 560 1000 C	Jacksonville
ARKANSAS	Los Angeles KECA 1430 1000	KLZ 560 1000 C KOA 830 50000 N	Jacksonville WJAX 900 1000 N
ARKANSAS Blythevilie	Los Angeles KECA 1430 1000 KFAC 1300 1000	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500	Jacksonville WJAX 900 1000 N WMBR 1370 100 C
ARKANSAS Blythevilie KLCN 1290 100	Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500	Jacksonville WJAX 900 1000 N WMBR 1370 100 C Miami
ARKANSAS Blythevilie KLCN 1290 100 El Dorado	Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N KFSG 1120 1000	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500 Grand Junction 1000 C	Jacksonville WJAX 900 1000 N WMBR 1370 100 C Miami WIOD 1300 1000 N
ARKANSAS Blythevilie KLCN 1290 100 El Dorado KELD 1370 100	Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N KFSG 1120 1000 KFVD 1000 250	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500 Grand Junction KFXJ 1200 100	Jacksonville WJAX 900 1000 N WMBR 1370 100 C Miami WIOD 1300 1000 N WIOD 1300 1000 N WQAM 560 1000 C
ARKANSAS Blytheville KLCN 1290 100 El Dorado KELD 1370 100 Fayetteville KUOA 1260 1000	Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N KFSG 1120 1000 KFVD 1060 250 KGFJ 1200 100 KHJ 900 1000 C	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500 Grand Junction KFXJ KF200 100 Greeley	Jacksonville WJAX 900 1000 N WMBR 1370 100 C Miami WIOD 1300 1000 N WQAM 560 1000 C Orlando WDBO 580 1000 C
ARKANSAS Blythevilie KLCN 1290 100 El Dorado KELD 1370 100 Fayetteville	Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N KFSG 1120 1000 KFVD 1060 250 KGFJ 1206 100 KHJ 900 1000 C KRKD 1120 1000	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500 Grand Junction KFXJ KFXJ 1200 100 Greeley KFKA 880 500 Lamar Lamar Lamar Lamar	Jacksonville WJAX 900 1000 N WMBR 1370 100 C Miami 1300 1000 N WIQAM 560 1000 C Orlando WDBO 580 1000 C Pensacola 1000 C 1000 C
ARKANSAS Blythevilie KLCN 1290 100 El Dorado KELD 1370 100 Fayetteville KUOA 1260 1000 Fort Smith	Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N KFSG 1120 1000 KFVD 1000 250 KGFJ 1200 100 KHJ 900 1000 C KRKD 1120 1000	KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500 Grand Junction KFXJ KFXJ 1200 100 Greeley KFKA 880 500 Lamar Lamar Lamar Lamar	Jacksonville WJAX 900 1000 N WMBR 1370 100 C Miami 1300 1000 N WIQAM 560 1000 C Orlando WDBO 580 1000 C Pensacola 1000 C 1000 C

St. Petersburg	Peoria	Garden City	Fali River
WSUN 620 1000 N	WMBD 1440 500 C	KIUL 1210 100	WSAR 1450 250
Tailahassee	Quincy	Hutchinson	Lowell
WTAL 1310 100	WTAD 900 500	KWBG 1420 100	New Bedford
Tampa	Rockford	Kansas City	
WDAE 1220 1000 C	WROK 1410 500	WLBF 1420 100	WNBH 1310 100 C
GEORGIA	Rock Island	Lawrence	Springfield
Albany	WHBF 1210 100	KFKU 1220 1000	WBZA 990 1000 B WMAS 1420 100 C
WGPC 1420 100 Athens	Springfield WCBS 1210 100	Manhattan	Worcester
WTFI 1450 500	WTAX 1210 100	KSAC 580 500	WORC 1280 500 C
Atlanta	Tuscola	Topeka	WTAG 580 500 R
WGST 890 500 C	WDZ 1070 100	WIBW 580 1000 C	MICHIGAN
WJTL 1370 100	Urbana	Wichita	Battle Creek
WSB 740 50000 N	WILL 890 1000	KFH 1300 1000 C	WELL 1420 [00
Augusta	Waukegan	KENTUCKY	Bay City
WRDW 1500 100	WCBD 1080 5000	Ashland	
Columbus	INDIANA	WCMI 1310 100	Calumet
Griffin	Anderson	Covington	WHDF 1370 100
	WHBU 1210 100	WCKY 1490 5000 B	Detroit
WKEU 1500 100 Macon	Eikhart	Lexington WLAP 1420 100	WJBK 1500 100
WMAZ 1180 1000	Evansville	Louisville	WJR 750 10000 B
Rome		WAVE 940 1000 N	WMBC 1420 100
WRGA 1500 100	WGBF 630 500 Fort Wayne	WHAS 820 50000 C	WWJ 920 1000 R WXYZ 1240 1000
Savannah	WGL 1370 100 C	Paducah	East Lansing
WTOC 1260 1000 C	WOWO 1160 10000 C	WPAD 1420 100	WKAR 1040 1000
Thomasville WPAX 1210 100	Gary	LOUISIANA Baton Rouge	Flint
HAWAII	WIND 560 1000 Hammond	WJBO 1420 100	WFDF 1310 100 Grand Rapids
Honolulu	WWAE 1200 100	Lafayette	WASH 1270 500
KGMB 1320 1000 C	Indianapolis		WOOD 1270 500
KGU 750 2500 N	WFBM 1230 1000 C	Lake Charles	Ironwood
	WIRE 1400 500 R	KPLC 1500 100	WJMS 1420 100
IDAHO Boise	Muncle	Monroe KMLB 1200 100	Jackson
KIDO 1350 1000 Idaho Falls	Richmond	New Orleans	WIBM 1370 100 Kalamazoo
KID 1320 250	WKBV 1500 100	WDSU 1250 1000 C	WKZO 590 1000
Lewiston	South Bend		Lansing
KRLC 1420 100	WFAM 1200 100	WJBW 1200 100	WJIM 1210 100
	WSBT 1360 500 C	WSMB 1320 1000 N	Lapeer
Nampa	Terre Haute	WWL 850 10000	WMPC 1200 100
KFXD 1200 100	WBOW 1310 100	Shreveport	
Pocatelio	West Lafayette	KRMD 1310 100	Marquette
KSEI 890 250		KTBS 1450 1000 N	WBEO 1310 100
Twin Falls KTFI 1240 1000	WBAA 890 1000	KWEA 1210 100	Muskegon WKBZ 1500 100
ILLINOIS	IOWA	KWKH 1100 10000 C	Royal Qak
	Ames	MAINE	WEXL 1310 50
Bleomington	WOI 640 5000 Boone	Augusta WRDO 1370 100	MINNESOTA
Carthage	KFGQ 1370 100	Bangor	Fergus Fails
	Cedar Rapids	WABI 1200 100	KGDE 1200 100
WCAZ 1070 100 Chicago	WMT 600 1000 B	WLBZ 620 500 C	Hibbing WMFG 1210 100
WAAF 920 500	Council Bluffs	Portland	Minneapolis
WBBM 770 50000 C	KOIL 1260 1000 B	WCSH 940 1000 R	
WCFL 970 1500 B	Davenport	Presque Isie	WCCO 810 50000 C
	WOC 1370 100 C	WAGM 1420 100	WDGY 1180 1000
WCRW 1210 100	Decorah	MARYLAND	WLB 1250 1000
WEDC 1210 100	KGCA 1270 100		WTCN 1250 1000
WENR 870 50000 N	KWLC 1270 100	Baitimore	Moorhead
WGES 1360 500		WBAL 1060 10000 B	KGFK 1500 100
WGN 720 50000	Des Moines	WCAO 600 500 C	Northfield
WJJD 1130 20000	KRNT 1320 500 C	WCBM 1370 100 A	
WLS 870 50000 N	KSO 1430 250 B	WFBR 1270 500 R	WCAL 1250 1000
	WHO 1000 50000 R	Cumberland	Rechester
WMAQ 670 50000 N	Iowa City	WTBO 800 250	KROC 1310 100
WMBI 1080 5000	WSUI 880 500		St. Paul
WSBC 1210 100 Cicero	Marshalltown	Frederick WFMD 900 500	KSTP 1460 10000 N
WEHS 1420 100	KFJB 1200 100	Hagerstown	MISSISSIPPI
WHFC 1420 100	Shenandoah	WJEJ 1210 100	Clarksdale
WKBI 1420 100	KFNF 890 500	MASSACHUSETTS	WMFN 1210 100
	KMA 930 1000	Babson Park	Hattlesburg
Decatur WJBL 1200 100	Sioux City	WBSO 920 500	WPFB 1370 100
East Dubuque	KSCJ 1330 1000 C	Boston	Jackson
WKBB 1500 100	KANSAS	WAAB 1410 500 C	WJDX 1270 1000 N
East St. Louis	Abilene	WBZ 990 50000 B	Kosciusko
WTMV 1500 100	KFBI 1050 5000	WEEI 590 1000 R	WHEF 1500 100
Harrisburg	Coffeyville	WHDH 830 1000 A WMEX 1500 100 A	Laure WAML 1310 100
WEBQ 1210 100 Joliet	Dodge City	WMFH 1120 500	Meridian
WCLS 1310 100	KGNO 1340 250	WNAC 1230 1000 C	WCOC 880 500

Mississippi City	Atlantic City	Rochester	Youngstown
WGCM 1210 100	WPG 1100 5000 C	WHAM 1150 50000 B	WKBN 570 500 C
Vicksburg	Camden	WHEC 1430 500 C	Zanesville WALR 1210 100
WQBC 1360 1000	WCAM 1280 500	Saranac Lake WNBZ 1290 100	WALR 1210 100 Oklahoma
MISSOURI	Jersey City WAAT 940 500	WNBZ 1290 100 Schenectady	Ada
Cape Girardeau KFVS 1210 100	WHOM 1450 250	WGY 790 50000 R	KADA 1200 100
Columbia	Newark	Syracuse	Ardmore
KFRU 630 500	WHBI 1250 1000	WFBL 1360 1000 C	KVSO 1200 100
Jefferson City	WNEW 1250 1000 A	WSYR 570 250 B	Elk City
WOS 630 500	WOR 710 50000	Troy	KASA 1210 100
Joplin	Red Bank	WHAZ 1300 500	Enid KCRC 1370 100
WMBH 1420 100	WBRB 1210 100	Utica WIBX 1200 100 C	KCRC 1370 100 Norman
Kansas City	Trenton WTNJ 1280 500 A	WIBX 1200 100 C White Plains	WNAD 1010 1000
KMBC 950 1000 C KWKC 1370 100	WTNJ 1280 500 A Zarephath	WFAS 1210 100	Oklahoma City
KWKC 1370 100 WDAF 610 1000 R	WAWZ 1350 500	Woodside	KFXR 1310 100
WHB 860 1000 K	NEW MEXICO	WWRL 1500 100	KGFG 1370 100
W9XBY 1530 1000	Albuquerque	NORTH CAROLINA	KOMA 1480 5000 C
St. Joseph	KGGM 1230 250	Asheville	WKY 900 1000 N
KFEQ 680 2500	KOB 1180 10000	WWNC 570 1000 N	Ponca City WBBZ 1200 100
St. Louis	Ciovis	Charlotte	WBBZ 1200 100 Shawnee
KFUO 550 500	KICA 1370 100	WBT 1080 50000 C	KGFF 1420 100
KMOX 1090 50000 C	Roswell	WSOC 1210 100 N	Tuisa
KSD 550 1000 R KWK 1350 1000 B	KGFL 1370 100	Durham WDNC 1500 100 C	KTUL 1400 500 C
WEW 760 1000 B	Santa Fe KIUJ 1310 100	WDNC 1500 100 C Greensboro	KVOO 1140 25000 N
WIL 1200 100		WBIG 1440 500 C	OREGON
1500 100	NEW YORK	High Point	Astoria
Springfield	Albany	1200 100	KAST 1370 100
KGBX 1230 500	WABY 1370 100	Raieigh	Corvallis KOAC 550 1000
KWTO 560 5000	WOKO 1430 500 C	WPTF 680 1000 N	Eugene
MONTANA	Auburn WMBO 1310 100	Rocky Mount WEED 1420 100	KORE 1420 100
Billings KGHL 780 1000 N	Binghamton	Wilmington	Klamath Falls
KGHL 780 1000 N Butte	WNBF 1500 100 C	WMFD 1370 100	KFJI 1210 100
KGIR 1360 1000 N	Brooklyn	Winston-Salem	Marshfield KOOS 1200 250
Great Falls	WARD 1400 500	WSJS 1310 100 C	Medford
KFBB 1280 1000	WBBC 1400 500 WBBR 1300 1000	NORTH DAKOTA	KMED 1310 100
Kalispeli KGEZ 1310 100	WCNW 1500 100	Bismarck	Portland
KGEZ 1310 100 Missoula	WLTH 1400 500	KFYR 550 1000 N	KALE 1300 500 C
KGVO 1260 1000	WMBQ 1500 100	Deviis Lake KDLR 1210 100	KBPS 1420 100 KEX 1180 5000 N
Wolf Point	WVFW 1400 500	Fargo	KEX 1180 5000 N KFJR 1300 500
KGCX 1310 100	Buffalo WBEN 900 1000 R	WDAY 940 1000 N	KGW 620 1000 N
NEBRASKA	WBEN 900 1000 R WEBR 1310 100	Grand Forks	KOIN 940 1000 C
Clay Center	WGR 550 1000 C	KFJM 1370 100	KWJJ 1040 500
KMMJ 740 1000	WKBW 1480 5000 C	Mandan KGCU 1240 250	KXL 1420 100
Kearney KGFW 1310 100	WSVS 1370 50	Minot	Salem KSLM 1370 100
KGFW 1310 100 Lincoln	Canton	KLPM 1240 250	PENNSYLVANIA
KFAB 770 10000 C	WCAD 1220 500 Chester	OHIO	Allentown
KFOR 1210 100 C	WGNY 1210 100	Akron	WCBA 1440 500
Norfoik	Elmira	WADC 1320 1000 C	WSAN 1440 500
WJAG 1060 1000	WESG 850 1000	WJW 1210 100	Altoona
North Platte KCNF 1430 1000	Freeport	Canton WHBC 1200 100	WFBG 1310 100
KGNF 1430 1000 Omaha	WGBB 1210 100	WHBC 1200 100 Cincinnati	Ciarion WWPA 850 250
WAAW 660 500	Jamestown WOCL 1210 50	WFBE 1200 100	Erie
WOW 590 1000 R	WOCL 1210 50 Long Island City	WKRC 550 1000 C	WLEU 1420 100
Scottsbluff	W2XR 1550 1000	WLW 700 500000 N	Glenside
KGKY 1500 100	New York	WSAI 1330 1000 R	WIBG 970 100
York KGBZ 930 1000	WABC 860 50000 C	Cleveland WGAR 1450 500 B	Greensburg WHJB 620 250
KGBZ 930 1000 Nevada	WBNX 1350 250 WBOO 860 50000	WGAR 1450 500 B WHK 1390 1000 C	WHJB 620 250 Grove City
Las Vegas	WBOQ 860 50000 WEAF 660 50000 R	WJAY 610 500	WSAJ 1310 100
KGIX 1420 100	WEVD 1300 1000	WTAM 1070 50000 R	Harrisburg
Reno	WFAB 1300 1000	Columbus	WHP 1430 500 C
KOH 1380 500 C	WHN 1010 1000	WAIU 640 500	WKBO 1200 100
NEW HAMPSHIRE	WINS 1180 1000	WBNS 1430 500 C WCOL 1210 100	Hazieton WAZL 1420 100
Laconia	WJZ 760 50000 B WLWL 1100 5000	WCOL 1210 100 WOSU 570 750	WAZL 1420 100
WLNH 1310 100	WMCA 570 500	Davton	WJAC 1310 100
Manchester WFEA 1340 500 C	WNYC 810 1000	WHIO 1260 1000 R	Lancaster
Portsmouth	WOV 1130 1000	WSMK 1380 200 C	WGAL 1500 100
WHEB 740 250	Olean	Portsmouth	WKJC 1200 100
NEW JERSEY	WHDL 1420 100	WPAY 1370 100	Philadelphia KYW 1020 10000 R
Asbury Park WCAP 1280 500	Plattsburg WMFF 1310 100	Toledo WSPD 1340 1000 C	WCAU 1170 50000 C
WCAP 1280 500	WWFF 1510 100	1010 1010 1000 0	
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WDAS 1370 100	•••••••		
	Memphis	Waterbury	Janesville
	WHBQ 1370 100	WDEV 550 500	WCLO 1200 100
WHAT 1310 100	WMC 780 1000 N	VIRGINIA	LaCrosse
WIP 610 500 A	WNBR 1430 500	Arlington	WKBH 1380 1000
WPEN 920 250	WREC 600 1000 C	NAA 690 1000	Madison
WRAX 920 250	Nashville	Charlottesville	WHA 940 2500
WTEL 1310 100			
		WEHC 1420 100	WIBA 1280 1000 N
Pittsburgh	WSM 650 50000 N	Danville	Manitowoc
KDKA 980 50000 B	Springfield	WBTM 1370 100	WOMT 1210 100
KQV 1380 500	WSIX 1210 100	Lynchburg	Milwaukee
WCAE 1220 1000 R	TEXAS	WLVA 1200 100	WIGNI 1120 200 C
WJAS 1290 1000 C	Amarillo		WISN 1120 250 C
WWSW 1500 100		Newport News	WTMJ 620 1000 N
Reading		WGH 1310 100	Poynette
WEELL 820 1000	WDAG 1410 1000	Norfolk	WIBU 1210 100
WEEU 830 1000	Austin	WTAR 780 500 N	Racine
WRAW 1310 100	KNOW 1500 100	Petersburg	WRJN 1370 100
Scranton	Beaumont	WPHR 880 500	Sheboygan
WGBI 880 500	KFDM 560 500	Richmond	WUDI 1410 500
WQAN 880 250	College Station	WBBL 1210 100	WHBL 1410 500
Sunbury	WEAN 1120 FOO		Stevens Point
WEOF 1010 100	WTAW 1120 500	WMBG 1210 100 C	WLBL 900 2500
WKOK 1210 100	Corpus Christi	WRVA 1110 5000 N	Superior
Wilkes-Barre	KGFI 1500 100	Roanoke	WEBC 1290 1000 N
WBAX 1210 100	Dallas	WDBJ 930 1000 C	WYOMING
WBRE 1310 100	KRLD 1040 10000 C	WRBX 1410 250	
Williamsport	WFAA 800 50000 N		Casper
WRAK 1370 100		Staunton	KDFN 1440 500
		WSVA 550 500	Sheridan
York	Dublin	WASHINGTON	KWYO 1370 100
WORK 1320 1000	KFPL 1310 100	Aberdeen	CANADA
PORTO RICO	El Paso	VVDO 1210 100	
Ponce	KTSM 1310 100	KXRO 1310 100	ALBERTA
WPRP 1420 100	WDAH 1310 100	Bellingham	Calgary
San Juan		KVOS 1200 100	CFAC 930 100 F
	Fort Worth	Everett	CFCN 1030 10000 F
WKAQ 1240 1000	KFJZ 1370 100	KRKO 1370 50	CJCJ 690 100 F
WNEL 1290 500	KTAT 1240 1000 C	Olympia	
RHODE ISLAND	WBAP 800 50000 N		Edmonton
Providence	Galveston	KGY 1210 100	CFRN 1260 100
WEAN 780 500 C	KLUF 1370 100	Puliman	CJCA 730 1000 F
WJAR 890 500 R	Houston	KWSC 1220 1000	CKUA 580 500
WPRO 630 250 A		Seattle	Lethridge
WFRO 050 250 A	KPRC 920 1000 N	KJR 970 5000 N	CJOC 1230 100 F
SOUTH CAROLINA	KTRH 1290 1000 C	KOL 1270 1000 C	BRITISH COLUMBIA
Anderson	KXYZ 1440 1000	KOMO 920 1000 N	Chilling b
WAIM 1200 100	Longview		Chilliwack
Charleston	KFRO 1370 100	KPCB 710 250	CHWK 780 100 F
WCSC 1360 500	Lubbock	KRSC 1120 100	Kamioops
Columbia		KTW 1220 1000	CFJC 880 100 F
WIG 1010 1000 N		KVL 1370 100	Kelowna
WIS 1010 1000 N	Pecos	KXA 760 250	CKOV 630 100 F
Greenville	KIUN 1420 100	Spokane	
WFBC 1300 1000	Port Arthur		
Spartanburg	KPAC 1260 500	KFIO 1120 100	CJAT 910 250 F
WSPA 920 1000	San Angelo	KFPY 1340 1000 C	Vancouver
WWC 1420 1000	KGKL 1370 100	KGA 1470 5000 N	CJOR 600 500
		KHO 590 1000 N	CKCD 1010 100
SOUTH DAKOTA	San Antonio	Tacoma	CKFC 1410 50
Aberdeen	KABC 1420 100	KMO 1330 250	CKMO 1410 100 F
KABR 1420 100	KMAC 1370 100	KVI 570 1000 C	CKWX 1010 100 F
Brookings	KONO 1370 100	Walla Walla	
KFDY 780 1000	KTSA 550 1000 C	KUJ 1370 100	CRCV 1100 1000 F
Huron	WOAI 1190 50000 N		Victoria
KGDY 1340 250	Tyler	Wenatchee	CFCT 1450 75
Pierre	KGKB 1500 100	KPQ 1500 100	MANITOBA
		Yakima	Brandon
KGFX 630 200	Waco WACO 1420 100 C	KIT 1310 100	CKX 1120 100 F
Rapid City			Winnipeg
WCAT 1200 100		WEST VIRGINIA	
WCAT 1200 100	Weslaco	WEST VIRGINIA Bluefield	CIDC 1200 100 P
Sioux Falls	Weslaco KRGV 1260 500	Bluefield	CJRC 1390 100 F
Sioux Falls	Weslaco KRGV 1260 500	Bluefield WHIS 1410 250	CKY 960 15000 F
Sioux Falls KSOO 1110 2500	Weslaco KRGV 1260 500 Wichita Falls	Bluefield WHIS 1410 250 Charleston	CKY 960 15000 F New Brunswick
Sioux Falls KSOO 1110 2500 Vermillion	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C	Bluefield WHIS 1410 250 Charleston WCHS 580 500	CKY 960 15000 F NEW BRUNSWICK Fredericton
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH	Bluefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont	CKY 960 15000 F New Brunswick
Sloux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C	Bluefield WHIS 1410 250 Charleston WCHS 580 500	CKY 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100	Weslaco KRGV 1260 500 Wichita Falls 500 500 C UCAH 0gden 500 C KLO 1400 500 C	Bluefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500	CKY 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton	Weslaco KRGV 1260 500 Wichita Falls 500 500 C UCAH 0gden 500 C KLO 1400 500 C	Bluefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington	CKY 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden KLO 1400 500 C Salt Lake City	Biuefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington WSAZ 1190 1000	CKY 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John
Sloux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C	Weslaco KRGV 1260 500 Wichita Falis KGKO 570 500 C UTAH Ogden KLO 1400 500 C Salt Lake City KDYL 1290 1000 N	Bluefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington WSAZ 1190 1000 Parkersburg	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moneton CKCW 1370 100 F St. John CHSJ 1120 100 F
Sloux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden KLO 1400 500 C Salt Lake City KDYL 1290 1000 N KSL 1130 50000 C	Biuefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington WSAZ 1190 1000 Parkersburg 1420 100	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden UTAH Sold KLO 1400 500 C Salt Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT VERMONT VERMONT VERMONT VERMONT	Biuefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington WSAZ 1190 1000 Parkersburg 1420 100 Wheeling	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOPI 1500 100	Weslaco KRGV 1260 500 Wichita Falis KGKO 570 500 C UTAH Ogden KLO 1400 500 C Salt Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT Burlington Kort Kort Kort	Biuefield WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington WSAZ 1190 1000 Parkersburg 1420 100	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik
Sioux Falls K SOO 1110 2500 Vermillion K USD 890 500 Watertown K WTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOPI 1500 100 Chattanooga	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden UTAH Sold KLO 1400 500 C Salt Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT VERMONT VERMONT VERMONT VERMONT	Biuefield WH1S 1410 250 Charleston 580 500 Fairmont WMNN 890 500 Huntington WSAZ 1190 1000 Parkersburg 1420 100 Wheeting WWVA 1160 5000 C	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moneton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50
Sioux Falls K SOO 1110 2500 Vermillion K USD 890 500 Watertown K WTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOPI 1500 100 Chattanooga	Westaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden UTAH Ggden KLO 1400 500 C Sait Lake City KDYL 1290 1000 N KSL 1130 5000 C VERMONT Burlington WCAX 1200 100	Biuefield WH1S 1410 250 Charleston 500 Fairmont WGHS 580 500 Fairmont WMNN 890 500 Huntington WSAZ 1190 1000 Parkersburg	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA
Sioux Falls KSOO 1110 2500 Vermillion 500 Watertown WWNN 1210 100 WMAX 570 1000 C TENNESSEE Bristol WOPI 1500 100 Chattanooga WDOD I 280 1000 C	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden KLO 1400 500 C Sait Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT Burlington WCAX 1200 100	Biuefield WH1S 1410 250 Charleston 580 500 Fairmont WMNN 890 500 Huntington WAXZ 1190 1000 Parkersburg 1420 100 Wheeling WWVA 1160 5000 C WISCONSIN Eau Claire Eau Claire Eau Claire	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moneton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA Glace Bay
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOPI 1500 100 Chattanooga WODD 1280 1000 C	Westaco KRGV 1260 500 Wichita Falls KGKO KGKO 570 500 C UTAH Ogden KLO KLO 1400 500 C Salt Lake City KDYL 1290 KSL 1130 50000 C VERMONT Burlington WCAX WCAX 1200 100 Rutland WSYB 1500	Biuefield WHIS 1410 250 Charleston WORD 500 Fairmont WMNN 890 500 Huntington WSAZ 1190 1000 Parkersburg	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA Glace Bay VAS 685 2000
Sioux Falls K SOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOPI 1500 100 Chattanooga WDOD 1280 1000 C Jackson WTJS 1310 100	Weslaco KRGV 1260 500 Wichtta Falls KGKO 570 500 C UTAH Ogden UTAH Ogden KLO 1400 500 C Saft Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans 100 St.	Biuefield WH1S 1410 250 Charleston WCHS 580 WCHS 580 500 Fairmont WMMN 890 500 Muntington WSAZ 1190 1000 Parkersburg 1420 100 Wheating 1420 100 Wtesting 100 Wheating WKAX 1160 5000 C WtA 120 100 Fau Claire WTAQ 1330 Fond du Lac Fond du Lac Fond du Lac	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA Glace Bay VAS 685 2000 Halifax
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOP1 1500 100 Chattanooga WDOD 1280 1000 C Jackson WTJS 1310 100 Knoxville	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden KLO 1400 500 C Sait Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans WQDM 1370 100	Biuefield WH1S 1410 250 Charleston 500 Fairmont WMNN 890 500 Huntington WSAZ 1190 1000 Parkersburg	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moneton CKCW 1370 100 F St. John CHSJ 1120 100 F OH NW. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F
Sioux Falls K SOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristo WOPI 1500 100 Chattanooga WDOD 1280 1000 C Jackson WTJ S 1310 100 Knoxville WNOX 560 1000 C	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden UTAH Ogden KLO 1400 500 C Salt Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans WQDM 1370 100	Biuefield WH1S 1410 250 Charleston 500 Fairmont WCHS 580 500 Fairmont WMNN 890 500 Muntington WSAZ 1190 1000 Parkersburg	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moncton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F Sydney
Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C TENNESSEE Bristol WOP1 1500 100 Chattanooga WDOD 1280 1000 C Jackson WTJS 1310 100 Knoxville	Weslaco KRGV 1260 500 Wichita Falls KGKO 570 500 C UTAH Ogden KLO 1400 500 C Sait Lake City KDYL 1290 1000 N KSL 1130 50000 C VERMONT Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans WQDM 1370 100	Biuefield WH1S 1410 250 Charleston 500 Fairmont WMNN 890 500 Huntington WSAZ 1190 1000 Parkersburg	CK Y 960 15000 F NEW BRUNSWICK Fredericton CFNB 550 1000 F Moneton CKCW 1370 100 F St. John CHSJ 1120 100 F N. W. TERRITORY Aklavik CJCU 1210 50 NOVA SCOTIA Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F 50

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Wolfville	Prince Albert	XEFG 1100 250	CMJK 760 150
CKIC 1010 50	CKBI 1210 100 F	XEFO 940 5000	CMJL 960 50
Yarmouth	Regina	XEFZ 1370 100	Cardenas
CJLS 1310 100	CHWC 1010 500 F CKCK 1010 500 F	XEK 990 100 XELC 740 100	CMGE 1370 30
ONTARIO Brantford	Saskatoon	XEMX 1280 12	Ciego de Avila CMJH 1360 50
CKPC 930 100 F	CFOC 840 1000 F	XEN 710 1000	CMJI 1300 50 CMJI 1130 45
Chatham	Yorkton	XEO 940 5000	CMJO 1180 50
CFCO 1050 100 F	CJGX 630 500 F	XEP 840 500 XETW 820 500	Clenfuegos
Cobait CKMC 1210 50	NEWFOUNDLAND	XETW 820 500 XEW 890 50000	CMHJ 1180 100
CKMC 1210 50 Fort William	St. John's VOAC 1065 40	XEWZ 1150 100	CMHW 810 100
CKPR 930 100 F	VOAS 940 100	XEXX 845 500	Colon
Hamilton	VOGY 840 400	XEYZ 780 10000	CMGI 1420 30 Cruces
CHML 1010 50 F	VONF 950 5000	XFX 610 1000	CMHK 1330 250
CKOC 1120 500 F	VOWR 681 500	DURANGO	Guantanamo
Kingston CFRC 1510 100	MIQUELON St. Pierre	Durango XEE 1210 50	CMKJ 1300 20
Kirkland Lake	FON 609 250	Mineral del Monte	Havana
CJKL 1310 100	CENTRAL	XELM 1310 15	CMAF 730 250 CMBC 940 195
London	AMERICA	GUANJUATO	CMBD 1170 163
CFPL 730 100 F		Guanjuato XEAZ 1420 7	CMBG 1140 325
North Bay CFCH 930 100 F	COSTA RICA Cartago	XEAZ 1420 7	CMBS 770 130
Ottawa	TIFS 1441 7.5	XEKL 1240 500	CMBX 1380 171
CKCO 1010 100	TIGA 1014 30	JALISCO	CMBY 640 125 CMBZ 1000 120
CRCO 880 1000 F	San Jose	Guadalajara	
Prescott CFLC 930 100	TIEP 850 500	XEA 1060 125	CMC 835 500 CMCA 1350 435
CFLC 930 100 St. Catharines	TIFA 1050 75 TIGH 1000 500	XED 1160 500 MICHOACAN	CMCB 1230 112
CKTB 1200 100 F	TIRC 1100 75	Morelia	CMCD 960 180
Sault Ste. Marie	TIRH 930 50	XE1 1370 125	CMCF 815 250
CJIC 890 100	GUATEMALA	NUEVO LEON	CMCG 1255 162 CMCJ 1200 500
Stratford	Guatemala City	Monterrey XEFB 1420 100	CMCN 1500 162
10-AK 1200 15 Sudbury	TGW 565 10000 TGX 1400 150	XEFB 1420 100 XEFJ 1230 100	CMCO 1110 150
CKSO 780 1000	EL SALVADOR	XEH 1150 250	CMCP 1270 150
Timmins	San Salvador	XET 690 500	CMCQ 680 250 CMCR 1410 122
CKGB 1420 100	RDN 706 500	XEX 1310 125	CMCU 1280 152
Toronto CFRB 690 10000 C	MEXICO	PUEBLA	CMCW 750 117
CFRB 690 10000 C CKCL 580 100 F	AGUASCALIENTES	Puebla XETH 1210 100	CMCX 660 250
CKNC 1420 100 F	Aguascalientes	SAN LUIS POTOSI	CMCY 1030 1000
CRCT 840 5000 N	XFC 810 350	San Luis Potosi	CMK 1060 1500 CMOA 790 72
Waterloo 100	BAJA CALIFORNIA Agua Caliente	XEZZ 1370 100	CMOK 1470 184
CKCR 1510 100 Windsor	XEBC 730 5000	SONORA Nogales	CMOX 1320 250
CKLW 1030 5000 C	Ensenada	XEAF 1010 250	CMQ 840 500
CRCW 600 1000 F	XEG 1270 500	TAMAULIPAS	CMW 600 1000 CMX 920 650
Wingham	Mexicali XEAA 920 200	Nuevo Laredo	CMX 920 650 Holquin
IO-BP 1200 25 PRINCE EDWARD	XEAO 560 250	XEAM 960 50 XEFE 920 250	CMKF 1460 30
ISLAND	Tiluana	XENT 910 60000	Manzanillo
Charlottetown	XEC 1270 50	Reynosa	CMKM 940 100
CFCY 630 1000 F	XEFL 1160 5000 XEMO 865 2500	XEAW 960 10000	Matanzas CMGC 1400 100
CHCK 1310 50	XEOK 765 2500	Tampico XEFW 1310 250	CMGF 1120 100
Summerside CHGS 1450 50 F	CAMPECHE	XEMA 1080 50	CMGH 1040 15
QUEBEC	Cazaca	XES 990 250	Moron GMJP 1430 75
Chicoutimi	XEAJ 1310 15 Chihuahua	VERACRUZ	Sagua la Grande
CRCS 950 100 F	Chihuahua	Jalapa XFB 1270 250	CMHA 1070 50
Hull CKCH 1210 100 F	XEF1 1440 250	XFB 1270 250 Orizaba	San Spiritus
Montmagny	Juarez	XFD 1340 350	CMHB 1240 30
VE9EK 1185 10	XEFV 1210 100	Veracruz	Santa Clara CMHI 1210 150
Montreal	XEJ 1020 1250 Coahuila	XETF 1220 12 XEU 1010 250	Santiago
CFCF 600 400 N CHLP 1120 100		XEU 1010 250 YUCATAN	CMKC 1250 150
	Piedras Negras		DOMINICAN
CKAC 730 5000 C	Piedras Negras XELO 1110-10000	Merida	
CKAC 730 5000 C	XELO 1110 10000 XEPN 590 50000	Merida XEFC 1310 100	REPUBLIC
CKAC 730 5000 C CRCM 910 5000 F New Carlisle	XELO 1110 10000 XEPN 590 50000 Saltillo		REPUBLIC San Pedro de
CKAC 730 5000 C CRCM 910 5000 F New Carlisle CHNC 1210 100 F	XELO 1110 10000 XEPN 590 50000 Saitilio XELA 1240 50	XEFC 1310 100 XEZ 630 500	REPUBLIC San Pedro de Marcoris
CKAC 730 5000 C CRCM 910 5000 F New Carlisle CHNC 1210 100 F Quebec	XELO 1110 10000 XEPN 590 50000 Sattillo XELA 1240 50 XEOX 640 250 Torreon	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA	REPUBLIC San Pedro de Marcoris IIIII 1395 15
CKAC 730 5000 C CRCM 910 5000 F New Carlisle CHNC 1210 CHNC 1210 100 F Quebec CHRC 580 100 F	XELO 1110 10000 XEPN 590 50000 Saltillo XELA 1240 50 XEOX 640 250 Torreon XETB 1310 125	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA Caibarien	REPUBLIC San Pedro de Marcoris IHHI 1395 15 Santo Domingo HIJ 1195 15
CKAC 730 5000 C CRCM 910 5000 F New Carlisle CHNC 1210 100 F Quebec CHRC 580 100 F	XELO 1110 10000 XEPN 590 50000 Sattilio XELA 1240 50 XEOX 640 250 Torreon XETB 1310 125 D. F.	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA Caibarien CMHD 1270 250	REPUBLICSan Pedro deMarcorisH1H139515Santo DomingoH1J119515H1X12701000
CKAC 730 5000 C CRCM 910 5000 F New Carlisie CHNC 1210 CHNC 1210 100 F Quebec CHRC 580 CHRC 580 100 F CKCV 1310 50 F	XELO 1110 10000 XEPN 590 50000 Saltillo XELA 1240 50 XEOX 640 250 Torreon XETB 1310 125 D. F. Mexico City	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA Caibarien CMHD 1270 250 Camaguey Camaguey Comparison Comparison	REPUBLIC San Pedro de Marcoris HIH 1395 Santo Domingo HIJ 1195 HIX 1270 HIX 12300
CKAC 730 5000 C CRCM 910 5000 F New Carlisle 500 F Quebec 100 F CHRC 580 100 F CKCV 1310 50 F CRCK 1050 1000 F SASKATCHEWAN Moose Jaw	XELO 1110 10000 XEPN 590 50000 Saltillo XELA 1240 50 XEOX 640 250 Torreon XETB 1310 125 D. F. Mexico City XEA1 1240 100	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA Caibarien CMHID 1270 250 Camaguey CMJG 1380 150 CMJC 1220 50	REPUBLIC San Pedro de Marcoris HIH 1395 Santo Domingo HIJ H195 H1X 1300 H1Z HAITI
CKAC 730 5000 C CRCM 910 500 0 F New Carlisle 600 F CHRC 1210 100 F Quebec 600 C 600 C CHRC 580 100 F CKCV 1310 50 F CRCK 1050 I 000 F SASKATCHEWAN Moose Jaw CHAB 1200 CHAB 1200 100 F	XELO 1110 10000 XEPN 590 50000 Saltillo X40 50 XEDX 640 250 Torreon XETB 1310 125 D.F. Mexico City XEA 240 100 XEB 1030 10000 XEGW 1310 10	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA Caibarien CMID 1270 250 Camaguey CMJC 1380 150 CMJE 1220 50 CMJE CMJE 1220 50 CMJE	REPUBLIC San Pedro de Marcoris 1111 1395 15 Santo Domingo HIJ 1195 15 HIX 120 1000 HIZ 1300 10 HATTI Port-au-Prince 1000
CKAC 730 5000 C CRCM 910 5000 F New Carlisle 500 F Quebec 100 F CHRC 580 100 F CKCV 1310 50 F CRCK 1050 1000 F SASKATCHEWAN Moose Jaw	XELO 1110 10000 XEPN 590 50000 Sattilio XELA 1240 50 XEOX 640 250 Torreon XETB 1310 125 D. F. Mexico City XEAI 1240 100 XEB 1030 10000	XEFC 1310 100 XEZ 630 500 WEST INDIES CUBA Caibarien CMHID 1270 250 Camaguey CMJG 1380 150 CMJC 1220 50	REPUBLIC San Pedro de Marcoris HIH 1395 Santo Domingo HIJ H195 H1X 1300 H1Z HAITI

CEAC 930 100 Calgary, Alta. Calgary Herald, Southam Bldg. CFCF 603 400 Montreal, Que. Mt. Royal Hotel CFCH 930 100 North Bay, Ont. Capitol Theatre Bldg. CFCN 1030 10000 Calgary, Alta. Toronto Gen. Trust Bldg. CFCO 1050 100 Chatham, Ont. Wm. Pitt Hotel CFCT 1450 75 Victoria, B. C. 620 View St. 1000 Charlottetown, P.E.ł. CFCY 630 143 Great George St. 880 CFJC 100 Kamloops, B. C. Wilcox-Hall Bldg. CFLC 930 100 Prescott, Ont. Hoy Bldg., 307 George St. CFNB 550 1000 Fredericton, N. B. York St. CEPI 730 100 London, Ont. Richmond St. 1000 Saskatoon, Sask. CFOC 840 216 First Ave., No. CFRB 690 10000 Toronto, Ont. 37 Bloor St. W. CFRC 1510 100 Kingston, Ont. Queens University CFRN 1260 100 Edmonton, Alta. Birks Bldg. CHAB 1200 100 Moose Jaw, Sask. Grant Hall Hotel CHCK 1310 50 Charlottetown, P.E.I. 36 Upper Hillsboro St. CHGS 1450 50 Summerside, P. E. I. 190 Water St. CHLP 1120 100 Montreal, Que. Sun Life Bldg. CHML 1010 50 Hamilton, Ont. 47 Main St. E. 100 New Carilsle, Que. CHNC 1210 Gaspesian Radio Brdestg. Co. CHNS 930 1000 Hallfax, N.S. Lord Nelson Hotel 100 Quebec, Que, CHRC 580 CHRC, Ltd., Victoria Hotel 100 St. John, N. B. CHSJ 1120 Admiral Beatty Hotel CHWC 1010 500 Regina, Sask. Williams Building CHWK 780 100 Chilliwack, B. C. Wellington Ave. CJAT 910 250 Trail, B. C. Kootenay Brdcstg. Co. CJCA 730 500 Edmonton, Alta. 10122-100A St. CJCB 1240 1000 Sydney, N. S. 318 Charlotte St. LJLJ 690 100 Calgary, Alta. New Albertan Bldg. CJCU 1210 50 Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior CJGX 630 500 Yorkton, Sask. 188 Grain Exchange Bldg. (Winnipeg) 011.0 890 100 S. Ste. Marie, Ont. Windsor Hotel CJKL 1310 100 Kirkland Lake, Ont. O. J. Thorpe CILS 1310 100 Yarmouth, N. S. Laurie L. Smith, Grand Hotel CJOC 1230 100 Lethbridge, Alta. Marquis Hotel

CJOR 600 500 Vancouver, B. C. G. C. Chandler, Hotel Grosvenor CJRC 1390 100 Winnipeg, Man. Royal Alexandra Hotel 1000 Moose Jaw, Sask. CIRM 540 311 Main St. No. CKAC 730 5000 Montreal, Que. 980 St. Catherine St. W CKBJ 1210 100 Prince Albert, Sask. Canada Bidg. CKCD 1010 100 Vancouver, B. C. 142 Hastings St. W. CKCH 1210 100 Hull Oue. Standish Hall Hotel CKCK 1010 500 Regina, Sask. 1853 Hamilton St. CKCL 580 100 Toronto, Ont. 444 University Ave. CKCO 1010 100 Ottawa, Ont. 272 Somerset St. W. CKCR 1510 100 Waterloo, Ont. 24 King St. So. CKCV 1310 50 Quebec, Que. 254 Ave. Marguerite CKCW 1370 100 Moncton, N. B. Moncton Brdcstg. Co., Ltd. 50 Vancouver, B. C. CKFC 1410 Hemlock & 12th Ave. **CKGB 1420** 100 Timmins, Ont. R. H. Thompson, Press Bldg. CKIC 1010 50 Wolfville, N. S. Acadia University CKLW 1030 5000 Windsor, Ont. Guaranty Trust Bldg. CKMC 1210 50 Cobalt, Ont. R. L. MacAdam **CKMO 1410** 100 Vancouver, B. C. 1604 Bekins Bldg. CKNC 1420 100 Toronto, Ont. 805 Davenport Road СКОС 1120 500 Hamilton, Ont. Wentworth Bldg. CKOV 630 100 Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243 CKPC 930 100 Brantford, Ont. Arcade Bldg. CKPR 930 100 Fort William, Ont. Roya Edward Hotel CKSO 780 1000 Sudbury, Ont. W. E. Mason, Grand Theatre Bldg. **CKTB 1200** 100 St. Catharines, Ont. E. T. Sandell, Welland House CKUA 580 500 Edmonton, Alta. University of Alberta. CKWX 1010 100 Vancouver, B. C. Hote Georgia CKX 1120 100 Brandon, Man. Rosser Ave. CKY 960 15000 Winnipeg, Man. Sherbrooke St. CMAE 730 250 Havana, Cuba 1 y 8 Rept. Miramar CMBC 940 195 Havana, Cuba Domingo Fernandez, Maximo Gomez No. 139 163 Havana, Cuba CMBD 1170 Luis Perez Garcia, Calle 17 y O, Vedado CMBG 1140 325 Havana, Cuba John L. Stowers, Hospital No. 100 CMBS 770 130 Havana, Cuba Calzada y H. St., Vedado CMBX 1380 171 Havana, Cuba Alberto Alvarez, San Miguel 194

CMBY 640 125 Havana, Cuba Infanta 132 esq-Jevellar 120 Havana, Cuba CMBZ 1000 Manuely G. Salas, San Rafael No. 14 CMC 835 500 Havana, Cuba Aguila y Dragones CMCA 1350 435 Havana, Cuba Galiano No. 102 CMCB 1230 112 Havana, Cuba O'Reilly y Aguacate 180 Havana, Cuba CMCD 960 Calle G y 25, Vedado CMCF 815 250 Havana, Cuba Raoul Karman, Rayo No. 67 CMCG 1255 162 Havana, Cuba Malecon No. 340 Altos CMCJ 1200 500 Havana, Cuba Rafael Rodriquez, Estevez No. 4 CMCK 1320 100 Havana, Cuba Manuel Autran G., Vedado 162 Havana, Cuba CMCN 1500 Reina y Ave. Buen Ritiroe, Marianao CMCO 1110 150 Havana, Cuba Oficios 116 CMCP 1270 150 Havana, Cuba Calzada de Luyane No. 132 CMCQ 680 250 Havana, Cuba Vista Alegre No. 80, Vibora CMCR 1410 122 Havana, Cuba Milagros No. 35, Vibora CMCU 1280 152 Havana, Cuba San Francisco No. 13, Vibora CMCW 750 117 Havana, Cuba Galiano y San Lazaro Sts. CMCX 660 250 Havana, Cuba Maceo No. 7, Guanbacoa CMCY 1030 1000 Havana, Cuba Manuel D. Autran, Calle G 215, Vedado CMGC 1400 100 Matanzas, Cuba Independencia No. 56 **CMGE 1370** 30 Cardenas, Cuba Genaro Sebater, Cespedes No. 180 CMGF 1120 100 Matanzas, Cuba G. Betancourt No. 51 CMGH 1040 15 Matanzas, Cuba B. Byrne No. 113 CMGI 1420 30 Colon, Cuba Armando Linanza, Mart i No. 35 CMHA 1070 50 Saguala Grande, Cuba Abelardo Menocal, Carrillo No. 1 30 San Spiritus, Cuba CMHB 1240 Independencia No. 33 CMHD 1270 250 Caibarlen, Cuba Manuel Alvarez, M. Escobar 17 CMHI 1210 150 Santa Ciara, Cuba I avis y Paz. Independencia No. 34 CMHJ 1180 100 Cienfuegos, Cuba Romoualde Ugalde, Sta. Elena 104 CMHK 1330 250 Cruces, Cuba Heredia No. 61 CMHW 810 100 Clenfuegos, Cuba Arguelles No. 200 CMJC 1380 150 Camaguey, Cuba Cisneros y G. Gomez CMJE 1220 50 Camaguey Cuba Manuel Fernandez, Hnos. Aguere No. 2 CMJF 1150 200 Camaguey, Cuba John L. Stowers, Republica No. 88 CMJG 1010 50 Camaguey, Cuba Maceo No. 1 CMJH 1360 50 Ciego de Avila, Cuba Luis Marauri, H. Castilla 37

CMJI 1130 45 Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95
 CMJK 760 150 Camaguey, Cuba
 Cla. Nacional de Radio, Finlay No. 3 CMJL 960 50 Camaguey, Cuba
 Enrique Artime, Cuba No. 27 CMJO 1180 50 Ciege de Avila, Cuba
Jose M. Rey .C. Centra & Maceo
CMJP 1430 75 Moron, Cuba Cesar Canall, Callejas No.28
CMK 1060 1500 Havana, Cuba Hotel Plaza
 CMKC 1250 150 Santiago, Cuba
 J. A. Saco, Alta 23 CMKF 1460 30 Holquin, Cuba
 Libertad esg. Arias CMKJ 1300 20 Guantanamo, Cuba
Luis Morlote, East Giro 11
CMKM 940 100 Manzanilio, Cuba Jesus Armeste, Merchant y P. Figuerado
 CMOA 790 72 Havana, Cuba Juan Fernandez, Aguiar 126 Altes
 CMOK 1470 184 Havana, Cuba
Rafael Valdez, Marques Gonzales 52
CMOX 1320 250 Havana, Cuba 10 entre 17 y 19, Vedado
 CMO 840 500 Havana, Cuba
 25 Numero 445, Vedado CMW 600 100 Havana, Cuba
Paseo de Marti 103 CMX 920 650 Havana, Cuba
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CRCM 910 5000 Montreal, Que. 1231 St. Catherine St. W.
 CRCO 880 1000 Ottawa, Ont.
 Chateau Laurler Hotel CRCS 950 100 Chicoutimi, Que.
4 Rue Larouche
CRCT 840 5000 Toronto, Ont. 805 Davenport Road
 CRCV 1100 1000 Vancouver, B. C. C. N. R. Station Bldg.
 CRCW 600 1000 Windsor, Ont.
 Guaranty Trust Bldg. FQN 609 250 St. Pierre, Mlq.
 HHK 920 1000 Port-au-Prince, Hait
Haltian Government
 HIH 1395 15 San Pedro de M.,D.R Domingo Dominguez
 HIJ 1195 15 Santo Domingo, D. R Tuto Baez . Hostos 34
 HIX 1270 1000 Santo Domingo, D. R
 J. R. Saladin, Director General HIZ 1300 10 Santo Domingo, D. R
 Abbes and Garcia KABC 1420 100 San Antonio, Texas
Texas Theatre Bidg.
KABR 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.
KADA 1200 100 Ada, Okia. C. C. Morris
 KALE 1300 500 Portland, Ore.
 Kale Inc., New Heathman Hotel KARK 890 250 Little Rock, Ark.
 N.S.L. Bldg.
KASA 1210 100 Elk City, Okia. E. M. Woody, Casa Grande Hotel
KAST 1370 100 Astoria, Ore. Abraham Shapiro

	KBPS 1420 100 Portland, Ore. E. 12th & Hoyt Sts.
	KBTM 1200 100 Jonesboro, Ark.
	Jay P. Beard KCMC 1420 100 Texarkana, Ark.
	KCMC 1420 100 Texarkana, Ark. Box 865
	KCRC 1370 100 Enid, Okla.
	Enid Radiophone Co., Oxford Hotel KCRJ 1310 100 Jerome, Ariz.
	Chas. C. Robinson, Drawer D. KDB 1500 100 Santa Barbara, Calif.
	15-17 E. Haley St.
	KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway
	KDKA 980 50000 Pittsburgh, Pa.
	Hotel Wm. Penn KDLR 1210 100 Devils Lake, N. D.
<u> </u>	KDLR, Inc. 1025 3rd Street
	KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.
	KECA 1430 1000 Los Angeles, Calif.
	1000 S. Hope St. KELD 1370 100 El Dorado, Ark.
	T. H. Barton
	KELW 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.
	KERN 1370 100 Bakersfield, Calif. Elk's Club
	KEX 1180 5000 Portland, Ore.
	Oregonian Bidg. KFAB 770 10000 Lincoln, Neb.
	Cornhusker Hote
	KFAC 1300 1000 Los Angeles, Calif. E. L. Cord ,645 So. Mariposa
	KFBB 1280 1000 Great Falls, Mont. Buttrey Broadcast., Inc.
	KFBI 1050 5000 Abilene, Kans.
	Box 345 KFBK 1310 100 Sacramento, Calif.
	Sacramento Bee
	KFDM 560 500 Beaumont, Texas Beaumont Hotel, P. O. Box 2950
	KFDY 780 1000 Brookings, S. D. South Dakota State College
	KFEL 920 500 Denver, Colo.
	Albany Hotel
	KFEQ 680 2500 St. Joseph, Mo. Schneider Bidg.
	KFGQ 1370 100 Boone, Iowa 924 W. 2nd St.
	KFH 1300 1000 Wichita, Kans.
	124 1/2 S. Market St. KFI 640 50000 Los Angeles, Calif.
	1000 S. Hope St.
	KFIO 1120 100 Spokane, Wash. 213 Riverside Ave.
	KFIZ 1420 100 Fond du Lac, Wis.
	18 W. lst St. KFJB 1200 100 Marshalltown, Iowa
	1603 W. Main St.
	KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel
	KFJM 1370 100 Grand Forks, N. D. University of North Dakota
	KFJR 1300 500 Portland, Ore.
	622 Lumbermen's Bldg. KFJZ 1370 100 Fort Worth, Texas
	Texas Hotel
	KFKA 880 500 Greeley, Colo. Box 735
	KFKU 1220 1000 Lawrence, Kans.
	University of Kansas

	KFNF 890 500 Shenandoah, Iowa
	407 Sycamore St. KFOR 1210 100 Lincoln, Neb.
	Howard Shuman, Hotel Lincoln
	220 E. Anaheim St.
	KFPL 1310 100 Dublin, Texas C. C. Baxter, Box 176
	KFPW 1210 100 Fort Smith, Ark.
	Goldman Hotel KFPY 1340 1000 Spokane, Wash.
	Symons Bidg. KFQD 780 250 Anchorage, Alaska
	411-4th Ave. KFRC 610 1000 San Francisco, Calif.
	1000 Van Ness Ave. KFRO 1370 100 Longview, Texas
	Voice of Longview
	KFRU 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts
	KFSD 600 1000 San Diego, Calif. U. S. Grant Hotel
	KFSG 1120 1000 Los Angeles, Calif.
	KFUO 550 500 St. Louis, Mo.
	801 De Mun St. KFVD 1000 250 Los Angeles, Calif.
	E. L. Cord, 645 S. Mariposa KEVS 1210 100 Cane Girardeau, Mo.
	KFVS 1210 100 Cape Girardeau, Mo. Oscar C. Hirsch. Box 275 KFWB 950 1000 Hollywood, Calif.
	Warner Bros. Motion Pictures, Inc.
	KFXD 1200 100 Nampa, Idaho Frank E. Hurt, 1024 12th Ave., S.
	KFXJ 1200 100 Grand Jct., Colo. Hillcrest Manor
	KFXM 1210 100 San Bernardino, Calif.
	California Hotel KFXR 1310 100 Okłahoma City, Okla-
	541 Hightower Bldg. KFYO 1310 100 Lubbock, Texas
	Kirksey Bros., Hotel Lubbock KFYR 550 1000 Bismarck, N. D.
	320 Broadway
	KGA 1470 5000 Spokane, Wash. 1023 W. Riverside Ave.
	KGAR 1370 100 Tucson, Ariz. 142 S. 6th Ave.
	KGB 1330 1000 San Diego, Calif. 10121st St.
	KGBU 900 500 Ketchikan, Alaska
	Mile 5, Wards Cove Rd. KGBX 1230 500 Springfield, Mo. KGBX, Inc., C. of C. Bldg.
	KGBA, Inc., C. OI C. Blog.
	KGBZ 930 1000 York, Neb. KGBZ Broadcasting Co., 715 Grant Ave.
	KGCA 1270 100 Decorah, Iowa Charles W. Greenley, 201 Water St.
	KGCU 1240 250 Mandan, N. D. 404 W. Main St.
_	KGCX 1310 100 Wolf Point, Mont. E. E. Krebsbach.
	KGDE 1200 100 Fergus Fails, Minn.
	C. L. Jaren KGDM 1100 1000 Stockton, Calif.
	E. F. Peffer, 42 S. Calif. St. KGDY 1340 250 Huron, S. D.
	Voice of S. D., Inc., 347 Dakota Ave.
	KGEK 1200 100 Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.
	KGER 1360 1000 Long Beach, Calif. 435 Pine Ave.

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KGEZ 1310 100 Kalispeli, Mont. Donald C. Treloar, Box 1 KGFF 1420 100 Shawnee, Okla. 9th & BellSts. KGFG 1370 100 Oklahoma City, Okla. Okla, Broadcasting Co., 1113 N. Broadway 100 Corpus Christi, Texas KGFI 1500 Eagle Broadcasting Co., Inc., P.O. Box 1508 KGEJ 1200 100 Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa. KGFK 1500 100 Moorhead, Minn. 722 Center Ave. KGFL 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St. 100 Kearney, Neb. KGFW 1310 Midway Hotel 200 Pierre, S. D. KGFX 630 Dana McNeil, 510 Summit Ave. 100 San Francisco, Calif, KGGC 1420 230 Eddy St 1000 Coffeyville, Kans. KGGF 1010 Coffeyville Journal Bldg. KGGM 1230 250 Albuquerque, N. M. Franciscan Hotel KGHE 1320 500 Pueblo, Colo. C. P. Ritchie, 113 Broadway KGHI 1200 100 Little Rock, Ark. Arkansas Brdestg. Co., Marion Hotel KGHL 780 1000 Billings. Mont. 5th & N. Broadway KGIR 1360 1000 Butte, Mont. KGIR. Inc., 121 W. Broadway KGIW 1420 100 Alamosa, Colo. Leonard E. Wilson, 326 N. Commercial KGIX 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656 100 Tyler, Texas KGKB 1500 115 S. College KGKL 1370 100 San Angelo, Texas KGKL, Inc., St. Angelus Hotel KGKO 570 500 Wichita Fails, Texas 9th St. & Indiana Ave. KGKY 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517 1/2 Broadway KGMB 1320 1000 Honolulu, T.H. Honolulu Broadcasting Co., Box 2663 KGNF 1430 1000 North Platte, Neb. Great Plains Broadcasting Co., W. 12th St. 250 Dodge City, Kans. KGNO 1340 First Natl. Bank Bldg. 790 7500 San Francisco, Calif. KGO 111 Sutter St. KGRS 1410 1000 Amarillo, Texas Plains Radio Broadcasting Co. 750 2500 Honolulu, T. H. KGU Kapiolani at South St. KGVO 1260 1000 Missoula, Mont. Mosbys, Inc., 240 N. Higgins 620 1000 Portland, Ore. KGW 325 Adler St. KGY 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way 900 1000 Los Angeles, Calif. кні 7th at Bixel 1000 Spokane, Wash. KHQ 590 Sprague Ave. & Post St. KHSL 950 250 Chico, Callf. Golden Empire Brdcstg. Co. KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co. KID 1320 250 Idaho Falis, Idaho Park Ave. & Broadway

1000 Boise Idaho KIDO 1350 Hotel Boise KIDW 1420 100 Lamar Colo Lamar Broadcasting Co., Box 688 KIEM 1210 100 Eureka, Calif. Redwood Bdcstg, Co., Vance Hotel KIEV 850 250 Glendale, Calif. Cannon System, Ltd., Glendale Hotel KINY 610 250 Juneau, Alaska Northwest Advertising Co. KIT 1310 100 Yakima, Wash. 109 1/2 E. Yakima Ave. KIUJ 1310 100 Santa Fe, N. Mex. J. H. Speck KIUL 1210 100 Garden City, Kans. Garden City Brdestg. Co. KILIN 1420 100 Pecos, Texas J. H. Hawkins & B. H. Hubbs KJBS 1070 500 San Francisco, Calif. 1380 Bush St. KJR 970 5000 Seattle, Wash. Skinner Bldg. KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St. KLO 1400 500 Ogden, Utah 405 - 25th St. 250 Minot, N. D. KLPM 1240 John B. Cooley, Box 707 KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co., Box 550 KIS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave. KLUF 1370 100 Galveston, Texas Geo. R. Clough, Buccaneer Hotel 880 1000 Oakland, Callf. KLX Tribune Tower 1000 Denver, Colo. KLZ 560 Shirley-Savoy Hotel 930 1000 Shenandoah, lowa кма Ear IE. May Seed & Nursery Co. KMAC 1370 100 San Antonio, Texas W. W. McAllister, Blue Bonnet Hotel KMBC 950 1000 Kansas City, Mo. Pickwick Hotel KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg KMJ 580 1000 Fresno, Calif. Van Ness & Calaveras Sts. KMLB 1200 100 Monroe, La. Francis Hotel KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co. KMO 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop KMOX 1090 50000 St. Louis, Mo. 401 S. 12th St. KMPC 710 500 Beverly Hills, Calif. 9631 Wiltshire Blvd. KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave. 100 Austin, Texas KNOW 1500 Norwood Building KNX 1050 50000 Hollywood, Callf. West. Broadcast Co., Inc., 1558 N. Vine St. KOA 830 50000 Denver, Colo. General Electric Co., 1370 Krameria St. KOAC 550 1000 Corvailis, Ore. Oregon State Agricultura loollege KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 667 KOH 1380 500 Reno, Nev. 440 N. Virginia St.

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KOIL 1260 1000 Council Bluffs, Jowa Mona Motor Oil Co. KOIN 940 1000 Portland, Ore, KOIN, Inc. New Heathman Hotel KOL 1270 1000 Seattle, Wash. Northern Life Tower KOMA 1480 5000 Oklahoma City, Okla Biltmore Hotel KOMO 920 1000 Seattle, Wash. Skinner Bldg KONO 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel KOOS 1200 250 Marshfield, Ore. H. H. Hanseth, Hall Bldg. **KORE 1420** 100 Eugene, Ore. 733 Williamette St. KOTN 1500 100 Pine Bluff, Ark. Universal Brdcstg. Corp., Hotel Pines KOY 1390 500 Phoenix, Ariz. 621 N. Central Ave. KPAC 1260 500 Port Arthur, Texas Port Arthur College 100 Seattle, Wash. KPCB 710 Tower Bldg. **KPJM 1500** 100 Prescott, Ariz. Scott & Sturm, P.O. Box 782 KPLC 1500 100 Lake Charles, La. Calcasieu Brdestg. Co. 680 50000 San Francisco, Calif. KPO 111 Sutter St. KPOF 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St. KPPC 1210 50 Pasadena, Calif. 585 E. Colorado St. 1500 100 Wenatchee, Wash. KPQ KPQ Bldg. KPRC 920 1000 Houston, Texas 2204 Shell Bldg. KOV 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bidg. KQW 1010 1000 San Jose, Calif. 87 E. San Antonio St. KRE 1370 100 Berkeley, Calif. 2345 Channing Way KREG 1500 100 Santa Ana, Calif. 3rd & Sycamore Sts. KRGV 1260 500 Weslaco, Texas KRGV Inc. KRKD 1120 1000 Los Angeles, Calif. 815 Spring Arcade Bidg. KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave. 100 Lewiston, Idaho **KRLC 1420** H. E. Studebaker KRLD 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel 100 Shreveport, La. KRMD 1310 Jefferson Hotel **KRNT 1320** 500 Des Moines, Iowa Des Moines Register Tribune KROC 1310 100 Rochester, Minn. Southern Minnesota Broadcasting Co. KROW 930 1000 Oakland, Calif. 1803 Franklin St. KRSC 1120 100 Seattle, Wash. Radio SalesCorp., Washington Athletic Club KSAC 580 500 Manhattan, Kans. State College of Agriculture KS&J 1330 1000 Sloux City, Iowa Perkins Bros. Co., 415 Douglas St. KSD 550 1000 St. Louis, Mo. 12th & Olive Sts.

	KSEI 890 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.
	KSL 1130 50000 Sait Lake City, Utah
	Vermont Bldg. KSLM 1370 100 Salem, Ore.
	Oregon Radio, Inc. KSO 1430 250 Des Moines, Iowa
	Des Moines Register & Tribune
	KSOO 1110 2500 Sioux Falls, S. D. Sioux Falls Brdest. Assn., Carpenter Hotel
	KSTP 1460 10000 St. Paul, Minn.
	St. Paul Hotel KSUN 1200 100 Lowell, Ariz.
	Copper Electrical Co., Drawer C KTAB 560 1000 San Francisco, Calif.
	5th & Mission Sts.
	KTAR 620 1000 Phoenix, Ariz. 116 N. Central Ave.
	KTAT 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
	KTBS 1450 1000 Shreveport, La.
	Box 1642 KTF i 1240 1000 Twin Falls, idaho
	Radio Broadcasting Corp., Box 521
	KTHS 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886
	KTM 780 500 Los Angeles, Callf. 214 S. Vermont St.
	KTRB 740 250 Modesto, Calif. McTammany & Bates
·	KTRH 1290 1000 Houston, Texas
	KTRH Broadcasting Co., Rice Hotel KTSA 550 1000 San Antonio, Texas
	KTSA 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
	KTSM 1310 100 El Paso, Texas P. O. Box 1976
	KTUL 1400 500 Tulsa, Okla. National Bank of Tulsa Bidg.
	KTW 1220 1000 Seattle, Wash.
	77th Ave. & Spring St. KUJ 1370 100 Walla Walla, Wash.
	KUJ, Inc., Marcus Whitman Hotel
	KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267
	KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel
	KUSD 890 500 Vermillion, S. D. University of South Dakota
	KVI 570 1000 Tacoma, Wash.
	W. R. Rust Bldg. KVL 1370 100 Seattle, Wash.
	KVL, Inc., 5th and Virginia St.
	KVOA 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.
	KVOD 920 500 Denver, Colo. Continental Oll Bidg.
	KVOO 1140 25000 Tuisa, Okia. Wright Bldg.
	KVOR 1270 1000 Colorado Spg., Colo.
	Mining Exchange Bldg. KVOS 1200 100 Bellingham, Wash.
	115 W. Magnolia St.
	KVSO 1210 100 Ardmore, Okla.
	Ardmoreite Pub. Co., Inc.
	KWBG 1420 100 Hutchinson, Kans.
	KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald KWEA 1210 100 Shreveport, La.
	KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald KWEA 1210 100 KWEA 1210 100 Shreveport, La. Spring & Fannin Sts. KWG 1200 KWG 1200 100 Stockton, Calif.
	KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald KWEA 1210 100 Shreveport, La. Spring & Fannin Sts. Spring A Fannin Sts.

KWK 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase KWKC 1370 100 Kansas City, Mo. 39th & Main Sts. KWKH 1100 10000 Shreveport, La. Spring & Fannin Sts. 100 Decorah, Iowa **KWLC 1270** Luther College 1000 Pullman, Wash. KWSC 1220 State College of Washington **KWTN 1210** 100 Watertown, S. D. Citizens Bank Bldg. KWTO 560 5000 Springfield, Mo. KGBX Inc. **KWYO 1370** 100 Sheridan, Wyo. Big Horn Brdcstg. Co. 760 250 Seattle, Wash. KXA American Radio Tel. Co., 218 Bigelow Bldg. 1420 100 Portland, Ore. KXL KXL Broadcasters, Multnomah Hotel KXO 1500 100 El Centro, Calif. F. M. Bowles, Box 140 KXRO 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morck. KXYZ 1440 1000 Houston, Texas Fannin & Rusk Sts. 1230 1000 San Francisco, Calif. KYA 988 Market St. KYW 1020 10000 Philadelphia, Pa. 1622 Chestnut Street 690 1000 Arlington, Va. NAA United States Navy 706 RDN 500 San Salvador, E. S. Republic of El Salvador TGW 565 10000 Guatemala, Gua. Gobierno de Guatemala TGX 1400 150 Guatemala City TIFP 850 500 San Jose, C. R. 75 San Jose, C. R. TIFA 1050 TIFS 1441 7.5 Cartago, C. R. TIGA 1014 30 Cartage, C. R. TIGH 1000 500 San Jose, C. R. 75 San Jose, C. R. TIRC 1100 Perry Girton, Apdo. 225 TIRH 930 50 San Jose, C. R. 2000 Glace Bay, N. S. 685 VAS Canadian Marconi Co., Ltd. 10 Montmagny, Que. **VE9EK 1185** J. A. Marquis, P. O. Box 52 VOAC 1065 40 St. John's, Nfld. 100 St. John's N. F. VOAS 940 Ayre & Sons, Ltd., Water St. 400 St. John's, N. F. VOCY 840 Newfoundland Hotel VONE 950 5000 St. John's N. F. Dominion Broadcasting Co., Ltd., Box 135 **VOWR 681** 500 St. John's, N. F. Wesley United Church, Box 157 WAAB 1410 500 Boston, Mass. 21 Brookline Ave. WAAF 920 500 Chicago, III. Palmer House 940 500 Jersey City, N. J. WAAT Bremer Broadcasting Corp., 50 Journal Sq.

WAAW 660 500 Omaha, Neb. Omaha Grain Exchange WABC 860 50000 New York, N. Y. 485 Madison Ave. WABI 1200 100 Bangor, Maine First Universalist Society Park St. WABY 1370 100 Albany, N. Y. Strand Theatre Bldg. 100 Waco, Texas WACO 1420 Amicable Bldg. 1000 Akron, Ohio WADC 1320 Allen T. Simmons, P. O. Box 29 100 Dothan, Ala. WAGF 1370 Iouston Hotel WAGM 1420 100 Presque Isle, Me. Aroostook Broadcasting Corp., Main St. 100 Anderson S. C. WAIM 1200 Wilton E. Hall 500 Columbus, Ohio WALU 640 Deshler-Wallick Hotel 500 Mobile, Ala. WALA 1380 Battle House WALR 1210 100 Zanesville, Ohio First Trust & Savs. Bank Bldg. 100 Laurel, Miss. WAME 1310 Southland Radio Corp., Box 26 5000 Birmingham, Ala. WAPI 1140 Protective Life Bldg. WARD 1400 500 Brooklyn, N. Y. 427 Flatbush Ave., Ext. 500 Grand Rapids, Mich. WASH 1270 Grand Rapids Natl. Bank Bidg. 100 Waterbury, Conn. WATR 1190 WATR Co. Inc. 47 Grand St. WAVE 940 1000 Louisville, Ky. WAVE, Inc., 1525 Brown Hotel 500 Zarephath, N. J. WAWZ 1350 Pillar of Fire. 100 Hazleton, Pa. WAZL 1420 Hazleton Broadcasting Service, Inc. WBAA 890 1000 West Lafayette, Ind. Purdue University WBAL 1060 10000 Baltimore, Md. Lexington Bldg., Amer. Radio News Corp. WBAP 800 50000 Fort Worth, Texas Blackstone Hotel 100 Wilkes-Barre, Pa. WBAX 1210 John H. Stenger, Jr., 70 S. Main St. 500 Brooklyn, N. Y. WBBC 1400 552-54 Atlantic Ave. 100 Richmond, Va. WBBL 1210 1627 Monument Ave. WBBM 770 50000 Chicago, III. WBBM Broadcasting Corp., Wrigley Bldg. 1000 Brooklyn, N. Y. WBBR 1300 124 Columbia Heights 100 Ponca City, Okla. WBBZ 1200 C. L. Carrell, 407 W. South Ave. 500 Bay City, Mich. WBCM 1410 James E. Davidson, Hotel Wenonah WBEN 900 1000 Buffalo, N. Y. WBEN, Inc., Hotel Statler 100 Marguette, Mich. **WBEO 1310** 146 W. Washington St. 500 Greensboro, N. C. WBIG 1440 Box 408 100 New Orleans, La. **WBNO 1200** Hotel New Orleans 500 Columbus, O. WRNS 1430 33 N. High St. WBNX 1350 250 New York, N. Y. 260 E. 161st St.

WBOQ 860 50000 New York, N. Y. Atlantic Broadcasting Corp. **WBOW 1310** 100 Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block WBRB 1210 100 Red Bank, N. J. 63 Broad St. WBRC 930 1000 Birmingham, Ala. Bankhead Hotel WBRE 1310 100 Wilkes-B Louis G. Baltimore, 16 N. Main 100 Wilkes-Barre, Pa. WBSO 920 500 Babson Park, Mass. Drawer B WBT 1080 50000 Charlotte, N. C. Station WBT, Inc., Wilder Bidg. WBTM 1370 100 Danville, Va. Miller Bldg. WBZ 990 50000 Boston, Mass. Hotel Bradford WBZA 990 1000 Springfield, Mass. Hotel Kimball WCAC 600 500 Storrs, Conn. Connecticut State College WCAD 1220 500 Canton, N. Y. St. Lawrence University WCAE 1220 1000 Pittsburgh, Pa. 6th Ave. & Smithfield St. WCAL 1250 1000 Northfield, Minn. St. Olaf College WCAM 1280 500 Camden, N. J. City of Camden, City Hall WCAO 600 500 Baltimore, Md. 811 W. Lanvale St. WCAP 1280 500 Asbury Park, N. J. Convention Hall WCAT 1200 100 Rapid City, S. D. South Dakota State School of Mines WCAU 1170 50000 Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut WCAX 1200 100 Burlington, Vt. 203 College St. WCAZ 1070 100 Carthage, III. 971/2 Adams St. WCBA 1440 500 Allentown, Pa. B. Bryan Musselman, 39-41 10th St. WCBD 1080 5000 Waukegan, III, 75 E. Wacker Drive, Chicago 100 Baltimore, Md. WCBM 1370 Keith Theatre Bldg WCBS 1210 100 Springfield, Ill. WCBS, Inc., 208 1/2 8.5th. WCCO 810 50000 Minneapolls, Minn. Nicollet Hotel WCFL 970 1500 Chicago, III. 666 Lake Shore Drive WCHS 580 500 Charleston, W. Va. WOBU, Inc., Ruffner Hotel WCKY 1490 5000 Covington, Ky. 6th & Madison Sts. WCLO 1200 100 Janesville, Wis, 200 E. Milwaukee St. WCLS 1310 100 Jollet, III. WCLS, Inc., 301 E. Jefferson St WCMI 1310 100 Ashland, Ky. Ashland Broadcasting Co. WCNW 1500 100 Brooklyn, N. Y. Arthur Faske, 1525 Pitkin Ave. WCOA 1340 500 Pensacola, Fla. San Carlos Hotel WCOC 880 500 Meridian, Miss. Box 603 WCOL 1210 100 Columbus, Ohio WCOL Inc., 30 N. High St

WCRW 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove"Ave. WCSC 1360 500 Charleston, S. C. Francis Marion Hotel WCSH 940 1000 Portland," Me. 579 Congress St WDAE 1220 1000 Tampa ,Fla. Tampa Times Co., Tampa Terrace WDAF 610 1000 Kansas City, Mo. 1729 Grand Ave. WDAG 1410 1000 Amarillo, Texas Box 306 WDAH 1310 100 El Paso, Texas Box 1976 WDAS 1370 100 Philadelphia, Pa. WDAS Brdestg, Co., Inc., Broadwood Hotel WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway WDBJ 930 1000 Roanoke, Va. Times World Corp., P. O. Box 150 WDBO 580 1000 Orlando, Fla. 555 N. Orange Ave. 250 Wilmington, Del. WDEL 1120 WDEL, Inc., 10th and King Sts WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St. WDGY 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway WDNC 1500 100 Durham, N. C. Washington Duke Hotel WDOD 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten WDRC 1330 1000 Hartford, Conn. WDRC, Inc., Corning Bidg., 11 Asylum St. WDSU 1250 1000 New Orleans, La. WDSU Inc., Hotel Monteleone 100 Tuscola, III. WDZ 1070 James L. Bush, Star Store Bldg. WEAF 660 50000 New York, N. Y. 30 Rockefeller Plaza WEAN 780 500 Providence, R. I. New Crown Hotel WEBC 1290 1000 Superior, Wis. Spaulding Hotel, Duluth, Minn. 100 Harrisburg, Ill. WEBQ 1210 100 E. Poplar St. WEBR 1310 100 Buffalo, N. Y. Howel Broadcasting Co., Inc., 735 Main WEDC 1210 100 Chicago, III. Emil Denemark, 3860 Ogden Ave. WEED 1420 100 Rocky Mount, N. C. Wm. Avera Wynne, Box 221 WEEI 590 1000 Boston, Mass. 182 Tremont St. WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn. WEHC 1420 100 Charlottesville, Va. 7th & Main Sts. WEHS 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd. WELL 1420 100 Battle Creek, Mich. Enquirer News, 38 W. State St. WENR 870 50000 Chicago, III. 222 N. Bank Drive WESG 850 1000 Elmira, N. Y. Mark Twain Hotel WEVD 1300 1000 New York, N. Y. Jewish Daily Forward, Hotel Claridge WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd. WEXL 1310 50 Royal Oak, Mich. 212 W. 6th St.

	WFAA 800 50000 Dallas, Texas Baker Hotel
	WFAB 1300 1000 New York, N. Y.
	Fifth Avenue Broadcasting Corp.
	WFAM 1200 100 South Bend, Ind.
	South Bend Tribune, 225 W. Colfax Ave.
	WFAS 1210 100 White Plains, N. Y.
	Hotel Roger Smith
	WFBC 1300 1000 Greenville, S. C.
1	Imperial Hotel
	WFBE 1200 100 Cincinnati, Ohio
	WFBE, Inc., Hotel Sinton
	WFBG 1310 100 Altoona, Pa.
	Gable Broadcasting Co. 12th Av. & 13th St.
	WFBL 1360 1000 Syracuse, N. Y.
	Onondaga Hotel WFBM 1230 1000 Indianapolis, Ind.
ł	48 Monument Circle
	-
	WFBR 1270 500 Baltimore, Md. 7 St. Paul St.
	WFDF 1310 100 Flint, Mich.
	Union Industrial Bldg.
	WFEA 1340 500 Manchester, N. H.
	Carpenter Hotel
	WFIL 560 1000 Philadelphia, Pa.
	WFIL Broadcasting Co., 801 Market
1	WFLA 620 1000 Clearwater, Fla.
	Box 119
	WFMD 900 500 Frederick, Md.
	Monocacy Broadcasting Co. WGAL 1500 100 Lancaster, Pa.
	WGAL 1500 100 Lancaster, Fa. WGAL, Inc., 8 W. King St.
	WGAR 1450 500 Cleveland, Ohio
	WGAR Broadcasting Co., Botel Statler
	WGBB 1210 100 Freeport, N. Y.
	H. H. Carman, 64 S. Grove St.
	WGBF 630 500 Evansville, Ind.
	519 Vine St.
	WGBI 880 500 Scranton, Pa.
	116 N. Washington Ave.
	WGCM 1210 100 Mississippi City Great Southern Golf Club
	WGES 1360 500 Chicago, Ill.
	128 N. Crawford Ave.
	WGH 1310 100 Newport News, Va.
	2813 Washington Ave.
	WGL 1370 100 Fort Wayne, Ind.
	F. C. Zieg, 213 W. Main St.
	WGN 720 50000 Chicago, III.
	WGN, Inc., Tribune Tower
	WGNY 1210 100 Chester, N. Y. Peter Goelet (Orange County)
	WGPC 1420 100 Albany, Ga. Rylander Theatre Bldg.
	WGR 550 1000 Buffalo, N. Y.
	Rand Bldg.
	WGST 890 500 Atlanta, Ga.
	Ansley Hotel
	WGY 790 50000 Schenectady, N. Y.
	1 River Road
	WHA 940 2500 Madison, Wis.
	University of Wisconsin
	WHAM 1150 50000 Rochester, N. Y.
	100 Carlson Road
	WHAS 820 50000 Louisville, Ky.
	300 W. Liberty St. WHAT 1310 100 Philadelphia, Pa.
	Public Ledger Bldg.
	WHAZ 1300 500 Troy, N. Y.
	8th St.
	WHB 860 1000 Kansas City, Mo.
	WHB Broadcasting Co., Scarritt Bldg.

	WHBC 1200 100 Canton, Ohio
	Edw. P. Graham, 319 Tusc. St., W.
	WHBF 1210 100 Rock Island, III. Hotel Harms
	WHBI 1250 1000 Newark, N. J.
	100 Shipman St.
	WHBL 1410 500 Sheboygan, Wis.
	Press Publishing Co., Press Bidg.
	WHBQ 1370 100 Memphis, Tenn.
L	Brdestg. Sta. WNBQ, Inc. Hotel Claridge
	WHBU 1210 100 Anderson, Ind.
	Anderson Broadcasting Corp., Box 816
	WHBY 1200 100 Green Bay, Wis. WHBY, Inc., Bellin Bldg.
	WHDF 1370 100 Calumet, Mich.
	Box 643
	WHDH 830 1000 Boston, Mass.
	Matheson Radio Co., 62 Boyiston
	WHDL 1420 100 Olean, N. Y.
	Exchange Natl, Bank Bldg.
	WHEB 740 250 Portsmouth, N. H.
	Box 522, 39 Congress St.
	WHEC 1430 500 Rochester, N. Y. WHEC, Inc., 40 Franklin St.
	WHEF 1500 100 Kosciusko, Miss.
	417 W. Adams St.
	WHFC 1420 100 Cicero, III. WHFC, Inc., 6138 W. Cermak Road
	WHFC, Inc., 6138 W. Cermak Road
	WHIO 1260 1000 Dayton, Ohio 39 S. Ludlow St.
	WHIS 1410 250 Bluefield, W. Va.
	Bland St.
	WHJB 620 250 Greensburg, Pa.
	Penn-Albert Hotel, 128 Pa, Ave.
	WHK 1390 1000 Cleveland, Ohio 1311 Terminal Tower
	WHN 1010 1000 New York, N. Y.
	1540 Broadway
	WHO 1000 50000 Des Moines, Iowa
	Central Brdcstg. Co., 914 Walnut St.
	WHOM 1450 250 Jersey City, N. J. 2870 Boulevard
	WHP 1430 500 Harrisburg, Pa. WHP Inc., 216 Locust St.
	WIBA 1280 1000 Madison, Wis.
	111 King St.
	WIBG 970 100 Glenside, Pa.
	WIBG, Inc., Keswick Bldg.
	WIBM 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.
	WIBU 1210 100 Poynette Wis
	WIBU 1210 100 Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3
	WIBW 580 1000 Topeka, Kans.
	11th & Topeka Blvd.
	WIBX 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.
	WIBX, Inc., 1st Natl. Bank Bldg. WICC 600 500 Bridgeport, Conn.
	Southern Conn. Broadcasting Corp.
	WIL 1200 100 St. Louis, Mo.
	Melbourne Hotel
	WILL 890 1000 Urbana, III.
	University of Illinois
	WILM 1420 100 Wilmington, Det. 920 King St.
	WIND 560 1000 Gary, Ind.
	504 Broadway
	WINS 1180 1000 New York, N. Y.
	110 E. 58th St., Hearst Radio, Inc.
	WIOD 1300 1000 Miami, Fla.
_	Heraid Bidg., Metropolis Pub. Co. WIP 610 500 Philadelphia, Pa.
	WIP 610 500 Philadelphia, Pa. Glmbel Bldg.

 WIRE 1400 500 Indianapolis, Ind. 540 N. Meridian St. WIS 1010 1000 Columbia, S. C. Station WIS, Inc., 1811 Main St. WISN 1120 250 Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc. WJAC, 1310 100 Johnstown, Pa. WJAC, Inc., Locust St. WJAC, Inc., Locust St. WJAC 1050 1000 Norfolk, Neb. Norfolk Daily News WJAS 2120 1000 Pittsburgh, Pa. Chamber of Commerce Bidg. WJAS 2120 1000 Pittsburgh, Pa. Chamber of Commerce Bidg. WJAS 1200 100 Dittsburgh, Pa. Chamber of Commerce Bidg. WJAS 1200 100 Bicomington, III. Kaskaskia Broadcasting Co. WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave. WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave. WJBW 1200 100 New Orieans, La. C. C. Carlson, Godchaux Bidg. WJBW 1200 100 New Orieans, La. C. C. Carlson, Godchaux Bidg. WJBW 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St. WJD 1130 20000 Chicago, III. WJBM 1210 100 Lansing, Mich. Capital City Brdests. Co. WJJD, Inc., 201 N. Wells St. WJJD, Inc., 201 N. Wells St. WJJD, Inc., 201 N. Wells St. WJJD, Inc., 750 1000 Detroit, Mich. WJBK 1420 100 Aisning, Mich. Capital City Brdests. Co. WJJD, Inc., 201 N. Wells St. WJM, Inc., Hisher Bidg. WJFL 1370 100 Aisning, Mich. Capital City Brdests. Co. WJJD, Inc., 201 N. Wells St. WJM, Inc., Hisher Bidg. WJFL 1370 100 Aisning, Mich. Capital City Brdests. Co. WJJD, Inc., 201 N. Wells St. WJM, Inc., Hisher Bidg. WJKI, Inc., Hisher Bidg. WJKI, Inc., Hisher Bidg. WJKI, Inc., 138 1000 Chicago, III. WJM, Inc., 410 Ainma, Ga. Oglechorpe University WJKB 1320 1000 San Juan, P. R. Radio Corp. of Portor Rico, P. O. Box 358 WKAR 1		
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 WJAC 1310 100 Johnstown, Pa. WJAC 1060 1000 Norfolk, Neb. Norfolk Daily News WJAR 300 500 Providence, R. I. Outlet Co., Weybossett St. WJAX 1290 1000 Pittsburgh, Pa. Chamber of Commerce Bidg. WJAX 300 1000 Jacksonville, Fla. City of Jacksonville St. WJAX 510 500 Cleveland, Ohle 1224 Huron Road WJAX 510 100 Bloomington, III. Kaskaskia Broadcasting Co. WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave. WJBU 1200 100 Detroit, Mich. 6559 Hamilton Ave. WJBU 1200 100 Detroit, Mich. 6559 Hamilton Ave. WJBU 1200 100 Beston Rouge, La. Baton Rouge Broadcasting Co., Inc. WJBY 1210 100 Gadaden, Ala. Gadsden Broadcasting Co., 112 N. 8th St. WJBY 1210 100 Jackson, Miss. Lamar Life Bidg. WJJD 1130 20000 Chicago, III. WJJJD 1130 100 Ironwood, Mich. WJMS, Inc., 8t. James Hotel WJR, Inc., 418. High St. WJW 1210 100 Astianta, Ga. Oglethorpe University WJW 1210 100 Akron, Ohlo WJW 1210 100 Akron, Ohlo WJW 1210 100 Cero, P. O. Box 358 WKAR 1040 1000 East Lansing, Mich. WJW 1210 100 Akron, Ohlo WJW 1210 100 Lacrosse, Wis. WKBH 1380 1000 Cicero, III. Richard W. Hoffman WKBH 1380 1000	-	WISN 1120 250 Milwaukee, Wis.
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Knox Radio Corp., Box 308 WKBW 1480 5000 Buifaio, N. Y. Rand Bidg. WKBZ 1500 100 Muskegon, Mich. Karl L. Ashbacker & Sons WKEU 1500 100 Griffin, Ga.		
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WKBZ 1500 100 Muskegon, Mich. Karl L. Ashbacker & Sons WKEU 1500 100 Griffin, Ga.		WKBW 1480 5000 Buffalo, N. Y.
Karl L. Ashbacker & Sons WKEU 1500 100 Griffin, Ga.		
WKEU 1500 100 Griffin, Ga.		
Radio Station WKEU, 906 Hill St.		WKEU 1500 100 Griffin, Ga.
	L	Radio Station WKEU, 906 Hill St.

WKJC 1200 100 Lancaster, Pa. 16 W. King St. WKOK 1210 100 Sunbury, Pa. 1150 N. Front St. WKRC 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Aims WKY 900 1000 Oklahoma City, Okla. Plaza Court Bldg. WKZO 590 1000 Kalamazoo, Mich. John E. Fetser, Burdick Hotel WLAC 1470 5000 Nashville, Tenn. 159-4th Ave. No. WLAC Inc. WLAP 1420 100 Lexington, Ky. Main & Esplanade WLB 1250 1000 Minneapolis, Minn. University of Minnesota WLBC 1310 50 Muncle, Ind. D. A. Burton, Anthony Bidg. WLBF 1420 100 Kansas City, Kans. WLBF Broadcasting Co., Huron Bldg. WLBL 900 2500 Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets 500 Bangor, Me. WLBZ 620 Maine Broadcasting Co., Inc., 100 Main WLFU 1420 100 Erie, Pa. Leo J. Omelian WLLH 1370 100 Lowell, Mass. Albert S. Moffat, Box D WLNH 1310 100 Laconia, N. H. 523 Maln St. WLS 870 50000 Chicago, III. 1230 W. Washington Blvd. WLTH 1400 500 Brooklyn, N. Y. 305 Washington St. WLVA 1200 100 Lynchburg, Va. 915 Main St. WLW 700 50000 Cincinnati, Ohio 1329 Arlington St. WLWL 1100 5000 New York, N. Y. 415 W .59th St. WMAL 630 250 Washington, D. C. 712-11th St., N. W. WMAQ 670 50000 Chicago, III. Merchandise Mart 100 Springfield, Mass. WMAS 1420 WMAS, Inc., 70 Chestnut St. WMAZ 1180 1000 Macon, Ga. 211 Cotton Ave. WMBC 1420 100 Detroit. Mich. 7310 Woodward Ave. WMBD 1440 500 Peoria, III. 114 N. Madison St. WMBG 1210 100 Richmond, Va. 914 W. Broad St. WMBH 1420 100 Joplin, Mo. 1334 Roosevelt St. 5000 Chicago, III. WMBI 1080 153 Institute Place WMB0 1310 100 Auburn, N. Y. WMBO, Inc., Metcaif Bldg. 100 Brooklyn, N. Y. WMBQ 1500 Paul J. Gollhofer, 95 Leonard St. WMBR 1370 100 Jacksonville, Fla. F. J. Reynolds, Carling Hotel 1000 Memphis, Tenn. WMC 780 WMC, Inc., Hotel Gayoso WMCA 570 500 New York, N. Y. 1697 Broadway WMEX 1500 100 Boston, Mass. The Northern Corp., Hotel Manger 100 Wilmington, N. C. WMED 1370 Richard Austin Dunlea

	WMFE 1380 250 New Britain, Conn.
	William J. Sanders WMFF 1310 100 Plattsburg, N. Y.
	WMFF 1310 100 Plattsburg, N. Y. Plattsburg Broadcasting Corp.
	WMFG 1210 100 Hibbing, Minn.
	Head of the Lakes Brdcstg. Co. WMFH 1120 500 Boston, Mass.
	Joseph M. Kirby
	WMFI 900 500 New Haven, Conn. Patrick J. Goode
	WMFJ 1420 100 Daytona Beach, Fla.
	W. Wright Esch WMFN 1210 100 Clarksdale, Miss.
	Attala Brdestg. Corp.
	WMFO 1370 100 Decatur, Ala. James R. Doss, Jr.
	WMMN 890 500 Fairmont, W. Va.
	West Va. Brdestg. Corp., 325 Main St. WMPC 1200 100 Lapeer, Mich.
	S1 Liberty St.
	WMT 600 1000 Cedar Rapids, Iowa Hotel Montrose
	WNAC 1230 1000 Boston, Mass. 21 Brookline Ave
-	WNAD 1010 1000 Norman, Okla.
	University of Oklahoma
	WNAX 570 1000 Yankton, S. D. HouseofGurney, Inc., 2nd and CapitalSt.
	WNBF 1500 100 Binghamton, N. Y.
	Arlington Hotel WNBH 1310 100 New Bedford, Mass.
	251 Union St.
	WNBR 1430 500 Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy
	WNBX 1260 1000 Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.
	WNBX Broadcasting Corp., 39 Main St.
	WNBZ 1290 100 Saranac Lake, N. Y. Smith & Mace, 70 Broadway
	WNEL 1290 500 San Juan, P. R.
	Box 1252 WNEW 1250 1000 Newark, N. J.
	Wodaam Corp., 1060 Broad WNOX 560 1000 Knoxville, Tenn.
	WNOX 560 1000 Knoxville, lenn. WNOX, Inc., Hotel Andrew Johnson
	WINDA 1/20 100 Muscle Shoals, Ala.
	Kathryn Jones, P.O. Box 486, Sheffield, Ala. WNYC 810 1000 New York, N. Y.
	Centre & Duane Sts.
	WOAI 1190 50000 San Antonio, Texas
-	Southland Industries, Inc., 1038 Navarro WOC 1370 100 Davenport, Iowa
	Palmer School of Chiropractic
	WOCL 1210 50 Jamestown, N. Y. A. E. Newton, 840 N. Main St.
-	WOI 640 5000 Ames, Iowa
	Iowa State College
	WOKO 1430 500 Albany, N. Y. WOKO, Inc., Hotel Ten Eyck
-	WOL 1310 100 Washington, D. C.
-	American Broadcasting Co., Annapolis Hotel WOMT 1210 100 Manitowoc, Wis.
	Francis M. Kadow, Box 326
	WOOD 1270 500 Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
	WOPI 1500 100 Bristol, Tenn.
	22nd & State Sts.
	WOR 710 50000 Newark, N. J. 147 Market St.
	WORC 1280 500 Worcester, Mass.
-	Alfred F. Kleindienst, 60 Franklin St. WORK 1320 1000 York, Pa.
	York Broadcasting Co., 15 S. Beaver St.

WOS 630 500 Jefferson City, Mo.
State Highway Control, Capitol Bldg.
WOSU 570 750 Columbus, Ohio Ohio State University
WOV 1130 1000 New York, N. Y.
132 West 43rd St.
WOW 590 1000 Omaha, Neb.
Woodmen of the World, 4th and Farnam
WOWO 1160 10000 Fort Wayne, Ind.
Main Auto Supply Co., 213 W. Main
WPAD 1420 100 Paducah, Ky.
2201 Broadway WPAX 1210 100 Thomasville, Ga.
H. Wimpy, 135 E. Jackson St.
WPAY 1370 100 Portsmouth, Ohio
F. P. Moler
WPEN 920 250 Philadelphia, Pa.
22nd & Walnut Sts.
WPFB 1370 100 Hattlesburg, Miss.
Forest Brdcstg. Co. WPG 1100 5000 Atlantic City, N. J.
WPG 1100 5000 Atlantic City, N. J. Convention Hall
WPHR 880 500 Petersburg, Va.
WLBG, Inc., Medical Arts Bldg.
WPRO 630 250 Providence, R. I.
Cherry & Webb Brdcstg. Co., 15 Chestnut
WPRP 1420 100 Ponce, P. R.
Julio M. Conesa WPTF 680 1000 Raleigh, N. C.
324 Fayetteville St.
WOAM 560 1000 Miami Fla.
Miam iBrdestg. Co., Inc., 327 N. E. 1st Ave.
WQAN 880 250 Scranton, Pa.
Scranton Times, 149 Penn Ave.
WQBC 1360 1000 Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg
WQDM 1370 100 St. Albans, Vt.
42 N. Main St.
WRAK 1370 100 Williamsport, Pa.
WRAK, Inc., 244 W. 4th St. WRAW 1310 100 Reading, Pa.
Reading Broadcasting Co., 533 Penn St.
WRAY 920 250 Philadelphia, Pa-
WRAX Broadcasting Co., 217 S. Broad St.
WRBL 1200 100 Columbus, Ga.
Royal Theatre Bldg. WRBX 1410 250 Roanoke, Va.
P. O. Box 2389
WRC 950 500 Washington, D. C.
National Press Bldg.
WRDO 1370 100 Augusta, Me.
WRDO, Inc., Augusta House
WRDW 1500 100 Augusta, Ga.
Augusta Brdestg. Co., 309 8th St. WREC 600 1000 Memphis, Tenn.
WREC, Inc., Hotel Peabody
WREN 1220 1000 Lawrence, Kans.
WREN Brdcstg. Co , 8th and Vermont St.
WRGA 1500 100 Rome, Ga.
10 Third Ave. WRJN 1370 100 Racine, Wis.
Racine Broadcasting Corp., Hotel Racine
WROK 1410 500 Rockford, III.
109 So. Water St.
WROL 1310 100 Knoxville, Tenn.
Stuart Broadcasting Corp., 524 S. Gay WRR 1280 500 Dallas, Texas
WRR 1280 500 Dallas, Texas City of Dallas, Southland Life Bldg.
WRUF 830 5000 Gainesville, Fla.
State University
WRVA 1110 5000 Richmond, Va.
Larus & Bros Co., Inc., 22nd and Gary St.

 WSA1 1330 1000 Cincinnati, Ohio Crosley Radio Corp., 1329 Arlington WSAJ 1310 100 Grove City, Pa. Grove City College, 418 Poplar St. WSAN 1440 500 Allentown, Pa. WSAN 1450 250 Fail River, Mass. Academy of Music Bidg. WSAZ, Inc., 39 10th St. WSAZ, Inc., P. O. Box 729 WSB 740 5000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSB 740 5000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSB 740 5000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSB 71300 5000 South Bend, Ind. Gene T. Dyer, 1258 8. Michigan Ave. WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel WSIX 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiller Hotel WSIX 1310 100 Springfield, Tenn. 633 Thre & Vulcanizing Co. WSIX 1320 100 New Orleans, La. WSMB 1320 100 New Orleans, La. WSMB 1320 100 New Orleans, La. WSMB 1320 100 New Orleans, La. WSMB, Inc., Maison Blanche Bidg. WSOC, Inc., Box 730 WSPD 1340 100 Springfield, Tenn. 301-7th Ave. No. WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 100 New Orleans, La. WSMK 1380 100 New Grieens, La. WSMK 1380 100 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St. WSPD 1340 1000 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St. WSWB 510 100 Rutland, V. Philip Welss Music Co., 80 West St. WSYA 550 500 Staunton, Va. Marion K. Gilliam WSVS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave. WSYB 1500 100 Rutland, VI. Philip Welss Music Co., 80 West St. WSYB 1300 100 Called Ava. WTAM 1301 500	
 Crossey Radio Corp., 1329 Artington WSAJ 1310 100 Grove City, Pa. Grove City College, 418 Poplar St. WSAN, 1440 500 Allentown, Pa. WSAN, Iace, 39 10th St. WSAN, 1450 250 Fall River, Mass. Academy of Music Bidg. WSAZ, Inc., P. O. Box 729 WSAZ, Inc., P. O. Box 729 WSBZ 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSBZ 1210 100 Chicago, III. Gene T. Dyer, 1258 S. Michigan Ave. WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel WSGN 1310 100 Birmingham, Ala. R. B. Broyles, TutWiller Hotel WSJS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall WSM B, Inc., Malson Blanche Bidg. WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 500 Iowa City, Iowa State University of Iowa WSUN 620 1000 St. Petersburg, Fla. Chamber of Commerce WSVA 550 500 Startanburg, S. C. Virgil V. Evans, Ravenel and Avant St. WSPD 1340 1000 Toledo, Ohio WSVI 880 500 Iowa City, Iowa State University of Iowa WSVA 550 500 Startanburg, Fla. Chamber of Commerce WSVA 550 500 Syracuse, N. Y. E. Onondaga & S. Warren Sts. WTAM 1300 100 Rutland, Vt. Phillp Welss Music Co., 80 Weet St. WYA 1330 100 Soure Claire, Wis. Gliette Rubber Co., Ifotel Eau Claire WTAM 1300 100 Callahasce, Fla. Frankin St. WTAM 1300 100 Dayton Wish Bidg. WTAM 1300 100 Divingingingingingingingingingingingingingi	WSAI 1330 1000 Cincinnati, Ohio
Grove City College, 418 Poplar St. WSAN 140 500 Allentown, Pa. WSAN 140 500 Allentown, Pa. WSAN 1405 250 Fall River, Mass. Academy of Music Bidg. WSAZ 1190 1000 Huntington, W. Va. WSAZ, Inc., P. O. Box 729 WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Collax Ave. WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel WSGN 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel WSIS 1310 100 Winston-Salem, N. C. WINSTON-Salem Journal Co., 416 N. Marshall WSM 50 50000 Nashville, Tenn. 301-7th Ave. No. WSMB 1320 1000 New Orleans, La. WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSDN 1210 100 Charlotte, N. C. WSOC 1210 100 Charlotte, N. C. WSOC, Inc., Box 730 WSPA 920 1000 Spartanburg, S. C. VIrgil V. Evans, Ravenel and Avant St. WSPA 920 1000 St. Petersburg, Fla. Chamber of Commerce WSVA 550 500 Staunton, Va. Marlon K. Gilliam WSVS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave. WSYB 1500 100 Rutland, Vt. Phillp Welss Music Co., 80 West St. WSYB 1500 100 Rutland, Vt. Phillp Welss Music Co., 80 West St. WSYB 1500 100 Rutland, Vt. Phillp Welss Music Co., 80 West St. WTAD 900 500 Quircy, III. Illinois Brdestr. Corp State and 6th WTAG 530 500 Worcester, Mass. IS Frankin St. WTAR 780 500 Norfolk, Va. WTAR 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Norfolk, Va. WTAN 1320 100 Failahassee, Fla. Florida Capitol Broadcasters, Inc. WTAR 780 500 Norfolk, Va. WTAN 1320 100 Springfield, III. WTAN, Inc., 416 E. Capitol Ave. WTAN 1320 100 Philadelphia, Pa. Broad & Erde Ave. WTEN 1310 100 Philadelphia, Pa. Broad & Erde Ave. WTEN 1310 100 Minneapolis, Minn. Wreley Temple Bidg. WTAN 120 500 Athens Ga	 Crosley Radio Corp., 1329 Arlington
 WSAN 1440 500 Allentown, Pa. WSAN, Inc., 39 10th St. WSAR 1450 250 Fail River, Mass. Academy of Music Bidg. WSAZ, Inc., P. O. Box 729 WSE 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSBC 1210 100 Chicago, III. Gene T. Dyer, 1258 B. Michigan Ave. WSET 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel WSGN 1310 100 Birmingham, Ala. R. B. Broyles, Tutwller Hotel WSIX 1210 100 Springfield, Tenn. 638 Tire & Vulcanizing Co. WSJS 1310 100 Winston-Salem, N. C. WISME 505 50000 Nashville, Tenn. 638 Tire & Vulcanizing Co. WSMB 1320 1000 New Orleans, La. WSMB 1320 1000 New Orleans, La. WSMB 1320 1000 Charlotte, N. C. WSMK Inc., Loew Theatre Bidg. WSOC, Inc., Box 730 WSPD 1340 1000 Toledo, Ohio Toledo Broadcasting Co., 305 Jefferson WSUI 880 500 Iowa City, Iowa State University of Iowa WSUM 650 5000 Statunton, Va. Marion K. Gilliam WSVA 550 500 Staunton, Va. WSVA 550 Stop Syncuse, N.Y. E. Onondaga & S. Warren Sts. WTAD 900 500 Quincy, III. IIInols Bridestr. Corp., State and 6th WTAM 1310 100 Tallahassee, Fla. Franklin St. WTAM 1310 100 Tallahassee, Fla. Franklin St. WTAR 780 500 Worcester, Mass. IF Franklin St. WTAR 780 500 Coreland, Ohio WTAR 780 500 Statinton, Va. WTAR 1310 100 Springfield, III. WTAR 1310 100 Springfield, III. WTAR 1310 100 Tallahassee, Fla. Franklin St. WTAR 780 500 Morfolk, Va. WTAR 780 500 Coreland, Ohio WTAR 780 500 Coreland, Ohio WTAR 1310 100 Philadelphia, Pa. Broad & Eric Ave. WTAN 120 500 College Station, Tex. Agricultura land Mecha	WSAJ 1310 100 Grove City, Pa.
 WSAR 1450 250 Fall River, Mass. Academy of Music Bidg. WSAZ 1190 1000 Huntington, W. Va. WSAZ 1190 1000 Atlanta, Ga. WSBT 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSBT 1210 100 Chicago, III. Gene T. Dyer, 1258 B. Michigan Ave. WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel WSGN 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel WSIS 1210 100 Springfield, Tenn. G38 Tire & Vulcanizing Co. WSIS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall WSM 50 50000 Nashville, Tenn. 301-7th Ave. No. WSMB 1320 1000 New Orleans, La. WSMB 1320 100 Charlotte, N. C. WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMZ J. Loew Theatre Bidg. WSOC 1210 100 Charlotte, N. C. WSOC, Lic., Box 730 WSPA 920 1000 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avan 15t. WSPD 340 1000 Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson WSUI 880 500 Lowa City, Lowa State University of Iowa WSVA 550 500 Staunton, Va. Marion K. Gilliam WSYS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave. WSYB 1500 100 Rutland, Vt. Phillp Weiss Music Co., 80 Weet St. WTAD 900 500 Quincy, III. Hillools Bridest. Corp., State and 6th WTAG 530 500 Norfolk, Va. WTAT 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Norfolk, Va. WTAR 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Morfolk, Pa. Frankin St. WTAR 780 500 College Station, Tex. Agricultura land Mechanical College WTAX 1420 100 Springfield, III. WTAX 1320 100 Pringfield, III. <li< th=""><th> Grove City College, 418 Poplar St.</th></li<>	 Grove City College, 418 Poplar St.
 WSAR 1450 250 Fall River, Mass. Academy of Music Bidg. WSAZ 1190 1000 Huntington, W. Va. WSAZ 1190 1000 Atlanta, Ga. WSBT 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St. WSBT 1210 100 Chicago, III. Gene T. Dyer, 1258 B. Michigan Ave. WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel WSGN 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel WSIS 1210 100 Springfield, Tenn. G38 Tire & Vulcanizing Co. WSIS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall WSM 50 50000 Nashville, Tenn. 301-7th Ave. No. WSMB 1320 1000 New Orleans, La. WSMB 1320 100 Charlotte, N. C. WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMK 1380 200 Dayton, Ohio WSMZ J. Loew Theatre Bidg. WSOC 1210 100 Charlotte, N. C. WSOC, Lic., Box 730 WSPA 920 1000 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avan 15t. WSPD 340 1000 Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson WSUI 880 500 Lowa City, Lowa State University of Iowa WSVA 550 500 Staunton, Va. Marion K. Gilliam WSYS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave. WSYB 1500 100 Rutland, Vt. Phillp Weiss Music Co., 80 Weet St. WTAD 900 500 Quincy, III. Hillools Bridest. Corp., State and 6th WTAG 530 500 Norfolk, Va. WTAT 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Norfolk, Va. WTAR 780 500 Cleveland, Ohio 1367 E. 6th St. WTAR 780 500 Morfolk, Pa. Frankin St. WTAR 780 500 College Station, Tex. Agricultura land Mechanical College WTAX 1420 100 Springfield, III. WTAX 1320 100 Pringfield, III. <li< th=""><th>WSAN 1440 Sub Allentown, Pa.</th></li<>	WSAN 1440 Sub Allentown, Pa.
Academy of Music Bidg. WSAZ, Inc., P. O. Box 729 WSET 740 50000 Atlanta, Ca. Atlanta Journal, 7. N. Forsyth St. WSET 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. WSET 1310 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. WSET 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiller Hotel WSIX 1210 100 Springfield, Tenn. 638 Tire & Vulcanizing Co. WSJS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall WSMK 1320 1000 New Orleans, La. WSMB 1320 1000 New Orleans, La. WSMK Inc., Loew Theatre Bidg. WSOC 1210 100 Charlotte, N. C. WSMK Inc., Loew Theatre Bidg. WSOC, Inc., Box 730 WSPD 1340 1000 Toledo, Ohio Toledo Broadcasting Co., 365 Jefferson WSUI 880 500 100w St. Petersburg, Fla. Chamber of Commerce WSVA 550 500 Staunton, Va. WSVB 1370 S0 Buffalo, N. Y. 666 E. Delavan Ave. WSYB 5170 50 Surgause, N. Y. E. Onondaza & S. Warren St	 WSAR 1450 250 Fall River Mass
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	XEE 1210 50 Durango, Dgo.
	20 de Nov. 112 (Apdo, 148)
	XEFA 1180 500 Mexico City, D. F.
	Eduardo Limon Segul, Meditarraneo 236
	XEFB 1420 100 Monterrey, N. L.
	Jesus Quintanilla, P. O. Box 317
	XEFC 1310 100 Merida, Yuc.
	J. Molina Font. Calle 59, 517
	XEFE 920 250 Laredo, Tams.
	R. T. Carranza, Km. 4 Carretera Laredo Mt.
	XEFG 1100 250 Mexico City, D. F.
	Ricardo Gonzales Montero, Tepic 48
	XEFI 1440 250 Chihuahua, Chih.
	Feliciano Lopez Isles, Ap. 157
1	XEFJ 1230 100 Monterrey, N. L.
	R. Junco de la Vega, P. O. Box 186
1	XEFL 1160 500 Tijuana, B. C.
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	XEFO 940 5000 Mexico City, D. F.
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	J. E. Martinez, Salvador Diaz Miron 6
	XEFZ 1370 100 Mexico City, D. F.
	Manuel Zetina, Calzada Nonoalco 481
	XEG 1270 500 Ensenada, B, C. Juan C. Chavez
	XEH 1150 250 Monterrey, N. L. Tarnava y Cia, P. O. Box 147
	XEI 1370 125 Morelia, Mich.
	Carlos Gutierrez M., F. I. Madero 545
	XEJ 1020 1250 Juarez, Chih.
	Juan G. Buttner, P. O. Box 111
	XEK 990 100 Mexico City, D. F.
	Arturo Martinez, Jalapa No. 51
	XEKL 1240 500 Leon, Guan.
	5 de Mayo 26
	XELA 1240 50 Saltillo, Coah.
	Enrique Gomez, Chauhtemos 28 Sur
	XELC 740 100 Mexico City, D. F.
	Manuel Valdes Bravo, C. Central 112 XELM 1310 15 Mineral del Monte,
	Jose Sanchez, Abesolo 1-A Dgo.
	XELO 1110 10000 Piedras Negras, Coah.
1	Piedras Negras Brdcstg. Co.
	XEMA 1080 50 Tampico, Tams.
	Manuel M. Pier, Aretsanos 10
	XEMO 865 2500 Tijuana, B. C.
	P. O. Box 202, San Diego, Calif.
	XEMX 1280 12 Mexico City, D. F.
	Alfonzo T. Avales
	XEN 710 1000 Mexico City, D. F.
	Cerveceria Modelo Ave. Juarez 77
L	

	2
	XENT 910 60000 Nuevo Laredo, Tams.
	Box 410, Laredo, Texas
	XEOK 765 2500 Tijuana, L. C.
	Carlos de la Sierra, Calle 5a 312
	XEOX 640 250 Saltillo, Coah.
	Victoria No. 4, Altos.
	XEP 840 500 Mexico City, D. F.
	Cia Difusora de Mexico S. A., Rembrandt 11
	XEPN 590 50000 Piedras Negras, Coah. Piedras Negras Brdcstg. Co., Madero 53
1	XES 990 250 Tampico, Tams. Fernando Sada, Box 309
	XET 690 500 Monterrey, N. L.
	P.O. Box 203, Hidaigo
	XETB 1310 125 Torreon, Coah.
	Jose A. Berumen, R. Corona 317
	XETF 1220 12 Veracruz, Ver.
	Jose M. Lopez, Independencia 20
	XETH 1210 100 Puebla, Pue.
	Ramon Huerta G., Calle 17 Oriente 11
	XETW 820 500 Mexico City D. F.
	RafaelM. Pena, Ave. 16 de Sep. 83
	XEU 1010 250 Veracruz, Ver.
	Fernando Pazos Sosa, Independencia 98
	XEW 890 50000 Mexico City, D. F.
	P. O, Box 2516
	XEWZ 1150 100 Mexico City, D. F.
	Medellin e Insurgentes
	XEX 1310 125 Monterrey, N. L.
	L. F. Petit Jean, P. O. Box 10
	XEXX 845 500 Mexico City, D. F.
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L	XEYZ 780 10000 Mexico City, D. F.
	Ange M. Diez, Ave. Juarez 48
	XEZ 630 500 Merida, Yuc.
	Jorge L. Falomeque, Estamores Ctd 214
	XEZZ 1370 100 San Luis Potosi, SLP
	Emilio Delgado R. Ave. Chicosein 32
	XFB 1270 1000 Jalapa, Ver.
	Gobierno del Estado de Veracruz
	XFC 810 350 Aguascalientes, Ags.
	Gobierno del Estado de Aguascalientes
	XFD 1340 350 Orizaba, Ver.
	Gobierno Estado de Veracruz XFO 940 5000 Mexico City, D. F.
	XFO 940 5000 Mexico City, D. F. Nat. Rev. Party Ave. Morelos 110
	XFX 610 1000 Mexico City, D. F.
	Secretaria de Educación Publica
	10-AK 1200 15 Stratford, Ont.
	M. I. Higgins, 151 Ontario St.
	10-BP 1200 25 Wingham, Ont. W. T. Cruickshank, Box 65
Annual 1997	

100 Best Shortwave Stations by Call Letters

Frequencies are given in megacycles and the time is Eastern Standard. In this list, the location of the transmitter is given. For a more complete list of the shortwave stations by frequencies, by calls and by countries, see the DX Log of the World.

Amateur phones are heard between	Broadcast Pickup stations: 1.606;	COC. Havana, Cuba, 6.010. 8:30
1.875 and 2.000 megs.	1.622; 1.646; 2.102; 2.150; 2.190;	a.m. to 12:30 p.m.; 4-7 p.m.
3.900 and 4.000 megs.	2.390.	Sat., 11:30-12:30.
7.000 and 7.300 megs. (Foreign	CJRO, Middlechurch, Man., 6.150.	
only).		COH, Havana, Cuba, 9.428. 5-6;
14.150 and 14.250 megs.	CJRN, Middlechurch, Man., 11.720.	8-9 p.m.

AROUND the CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7 :00	8 :00	9:00	10:00	11:00	12:00	1 3 :00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4 :00	5:00	6 :00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7 :00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6 :00	7:00	8 :00	9:00
PST	9:00	10:00	11:00	12:00	1 :00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	COC DJB DJQ GSB GSD VE9CA VPD VK2ME W3XAL W3XAL W8XAL	DJB DJQ GSB GSD VE9CA VPD VK2ME W8XAL W9XF	W8XAL W9XF	DJB DJN RV15	DJIB DJN GSF GSG JVM RV15 VK2ME VK3LR		DJB DJN GSF GSG JVM LKJ1 RV15 VK2ME VK3LR VK3ME W8XAL	GSF GSG JVM LKJ1 Pont. Rabat RV15 VE9GW VK2ME VK3LR W1XK W8XAL W8XAL	DJB DJE DJQ GSF GSG PCJ PHI Pont. Rabat. VE9GW VK2ME W1NK W8NK	DJB DJE DJQ GSE GSC HAS3 PCJ PHI Pont. VE9CA VE9GW W1NK W3XAL W8XK	DJB DJE DJQ GSE GSC HVJ PCJ PHI RNE VE9GW WIXK W8XAL W8XAL W8XAL	DJB DJE DJQ GSE Pont. Rabat. VE9GW W1XK W2XE W8XK W9XAA

NOON TO MIDNIGHT (EST)

								• • •				
GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1 :00	2:00	3 :00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6 :00	7:00	8:00	9 :00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8 :00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6 :00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1 :00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	W1XK W2XE	VE9GW W1XK W3XAU	DJC DJD GSB GSD IRO Rabat VE9GW W1XK W2XAD W3XAU W3XAU W9XAA XEBT	RV59 VE9GW W1XK W2XE W3XAL	RV59 VE9CA VE9GW	CT1AA DJA DJD DJN EAQ GSB GSD HBL HJ1ABB Pont. PRF5 Rabat RV59 VE9GW W1XAL W1XK W3XAL	HJ2ABC HJ4ABA IRA Pont Rabat VE9GW W1XAL W1XK W2XE W3XAU W8XK W9XAA XEBT YV2RC YV3RC	DJA DJD DJN GSB GSD HC2RL HJ1ABG HJ1ABG HJ1ABG WIXAL WIXAL WIXAL WIXAL WIXAL WIXAL WIXAL WIXAL WIXAL WIXAL YV2RC YV3RC YV3RC	DJN HIX HJ1ABB HP5B TIEP TIGPH VE9GW W1XAL W1XK W1XAL W1XK W2XAF W2XAF W2XAF W3XAU W8XK W9XAA XEBT	CJRO CJRX DJD DJD DJD HC2ET HC	PRADO TIGPH VE9GW W1XK W2XAF W3XAU W8XK W9XAA W9XF XEBT YV2RC	CJRO CJRX COC HJ4ABL W1XK W3XAU W8XK W9XA W9XF

- CP5, La Paz. Bolivia, 6.080. 8-9 p.m.
- CTIAA, Lisbon, Portugal, 9.590. Tues., Thurs., Sat., 4:30-7 p.m.
- CT1GO, Lisbon, Portugal, 6.190. Sat., 8-9 p.m.; Tues, Thurs., 7:30-8:15 p.m.
- 12.330: Sat., Sun., 9-10 a.m Germany, 9.560. Zeesen DJA. 5:05-9:15 p.m.
- DJB. Zeesen, Germany, 15.200. 3:45-7:15 a.m.: 12:30-2 a.m. 8-11:30 a.m
- DJC, Zeesen, Germany, 6.020. Noon to 4:30 p.m.; 9:30-10:30 p.m.
- DJD, Zeesen, Germany, 11.760. Noon to 4:30 p.m.; 5:05-10:30 p.m.
- DJE. Zeesen, Germany, 17.760. 8-11:30 a.m.
- Germany. 9.540. DJN. Zeesen. 3:45-7:15 a.m.; 5:05-10:30 p.m.
- DJQ, Zeesen, Germany, 15.280. 12:30-2 a.m.; 8-11:30 a.m.
- EAQ, Aranjuez, Spain, 9.862. 5:30-7 p.m.; Sat. noon to 2 p.m.
- GBB, Rugby, England, 13.500. Phones Canada.
- GBS, Rugby, England, 12.150. Phones NY.
- GBU, Rugby, England, 12.240. Phones N.Y.
- W. Rugby, England, 14.440. Phones N. Y. 6-8 p.m. GBW.
- GSA, Daventry, England, 6.050. GSB, Daventry, England, 9.510
- 11:30 p.m. to 1:30 a.m.; 11 a.m. to N; 12:15-4:40 p.m.; 6-8 p.m. Daventry, England, 9.580.
- GSC, 6-8 p.m.; irreg. 10-11 p.m.
- Daventry, England, 11.750. GSD. 11:30 p.m. to 1:30 a.m.; 12:15-4:40 p.m.; irreg. 10-11 p.m.
- E, Daventry, England, 11.860. 9 a.m. to noon. GSE,
- GSF, Daventry, England, 15.140. 4:45-8:45 a.m.

- GSG, Daventry, England, 17.790. 4:45-8:45 a.m.; 9-10:45 a.m.
- GSL, Daventry, England, 6.110. irreg., 10-11 p.m.
- Szekesfehervar, Hun-HAS3. gary, 15.370. Sun., 9-10 a.m. HAT4, Budapest, Hungary, 9.125.
- Sun., 6-7 p.m. HBL, Prangins, Switzerland, 9,595.
- Sat. 5:30-6:15 p.m. HBP, Prangins, Switzerland, 7.797.
- Sat. 5:30-6:15 p.m.
- HC2RL, Guayaquil, Ecuador, 6.659. 9:14-11:14 p.m.; Sun. Tues. 5:45-7:45 p.m.
- HIH, San Pedro de Macoris, D. R., 6.810. 4-7:30 p.m. daily, and 3-4 a.m. Sunday.
- HIX, Santo Domingo, D. R., 5.948. Tues. and Fri., 8-10 p.m.
- HJA2, Bogota, Colombia, 5.825
- HJA3. Barranquilla, Colombia, 12.830
- HJB, Bogota, Colombia, 14.930.
- HJIABB. Barranguilla Colombia. ABB, Barranqu 6.447. 5-10 p.m.
- Barranquilla, Colombia HJ1ABG, Barrang 6.042. 7-10 p.m.
- HJ2ABC, Cucuta, Colombia, 5.975. 6-9 p.m.
- HJ3ABD, Bogota, Colombia, 7.406. "Colombia Broadcasting." 6-9 6-9 n.m. daily.
- Medellin, Colombia, HJ4ABA 5 p.m.-11 720.
- HJ4ABE, Medellin, Colombia, 5.900 7-11 p.m.
- "Ecos del Occidente, HJ4ABL, Manizales, Colombia, 6.100. Sat., 11 p.m. to 12:30 a.m. HJ5ABD, Cali, Colombia, 6.490.
- Thurs., Sat., Sun., 7-9 p.m.
- HPF, Panama Clty . Panama, 14.545. Phones Hialesh
- HP5B, Panama City, Panama, 6.030. 7-10:30 p.m.

- HP5J, Panama City, Panama, 9.596. 8-11 p.m
- HSJ, Bangkok .Slam ,7.980.
- HVJ, Vatican Clty 15.120. 5-5:15 a.m. daily except Sunday. 00 casionally from 10-10:30 a.m.
- IRA, Rome, Italy, 6.070. Mon. Wed., Fri., 6-7:30 p.m.
- IRE, Rome, Italy, 11.810. 9-10 a.m. IS3. Bolling Field, Va., 6.412.
- 12RO Rome Italy.
 - 9.600: 2:30-5 p.m.; 7:45-9:15 p.m.
- JVE, Nazaki, Japan, 15.660. Phones Java, nights.
- JVF, Nazaki, Japan, 15.620. Phones Dixon, 5-11 p.m.
- JVM, Nazaki, Japan, 10.740. 4-8 a.m.
- KAY, Manila, P. I., 14.980. Phones Dixon
- KKH, Kahuku, T. H., 7.520. Phones Dixon.
- KKP. Kahuku, T. H., 16.030. Phones Dixon.
- KNRA, "Seth Parker", 6.160; 6.660; 6.670: 8.230; 8.820; 8.840; 13.200
- KWO. Dixon, Callf., 15.415. Phones Hawaii and Manila.
- KWU, Dixon, Calif., 15.355. Phones Japan.
- KWX, Dixon, Calif., 7.610. Phones Hawaii.
- LKJ1, Jeloy, Norway, 9.540. 5-8 a.m.
- OAX4D, Lima, Peru, 5.780. Wed. and Sat., 9-11:30 p.m.
- ORK, Ruysselede, Belgium, 10.330. 1:30-3 p.m.
- Netherlands, PCJ. Hilversum, 15.220: 7:30-10 a.m. daily exc. Tues., Wed.
- Hilversum, Netherlands. PHI, 17.775: 7:30-10 a.m. daily exc. Tues., Wed.

We Want Your Advice

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- Pollee Stations, on frequencies 1,596; 1.634; 1.642; 1.658; 1.666; 1.674; 1.682; 1.706; 1.712; 2.382; 2.406; 2.414; 2.416; 2.422; 2.430; 2.442; 2.450; 2.452; 2.458; 2.466; 2.474; 2.482; 2.490.
- PRADO, Riobamba, Ecuador, 6.618. Thurs., 9-11:30 p.m.
- PRF5, Rio de Janeiro, Brazil, 9.505. 5:30-6:15 p.m.
- Radio Coloniale, Pontoise, France, 11.710: 1:15-5 p.m.; 5:15-9 p.m.; 10 p.m. to midnight.
 - 11.905: 11:15 a.m. to 5 p.m.
 - 15.243: 7:30-11 a.m.
- Rabat, Morocco, 8.035. Sun., 11 a.m. to noon, 2-7 p.m. 12.830. Sun., 7-9 a.m.
- RKI, Moscow U.S.S.R., 7520. Phones USA
- **BNE**, Moscow, U.S.S.R., 12.000. Sun., 6 a.m. and 10 a.m.
- RV15, Khabarovsk, U.S.S.R., 4.273, 3-9 a.m.
- RV59, Moscow, U.S.S.R., 5.996. 3-6 p.m.
- TIEP, San Jose, Costa Rica, 6.710. 7-10 p.m.
- TIGPH. San Jose, Costa Rica. 5.820. 7-10 p.m.
- VE9CA. Calgary, Alta., 6.030. Thurs., 9 a.m. to 2 a.m. Fri.; Sun., noon to midn.; other days 9 a.m. to midnight.
- VE9GW, Bowmanville, Ont., 6.095. Sun., noon to 8 p.m.; Mon., Tues., Wed., 2-11 p.m.; Thur., Fri., Sat., 6 a.m. to 11 p.m.
- VE9HX, Halifax, N. S., 6.110. 5-11 p.m.
- VK1, Selfridge Field, Mich, 6.425.

- VK2ME, Pennant Hills, Australia, 9.585. Mid. to 2 a.m. and 4:30-8:30 a.m., Sundays only.
- VK3LR, Melbourne, Australia .9.580. Daily exc. Sun . 4-8 a.m.
- VK3ME, Braybank . Australia 9.503. Wed., Thurs., Fri., 5-6:30 a.m.: Sat. 5-7 a.m.
- VPD, Suva, Fiji, 13.045. 12:30-1:30 a.m.
- VUB, Bombay, India , 9.565. Testing Sunday, 7 a.m.
- WTR. Albrook Field, Canal Zone. 6.385.
- WOO, Ocean Gate, N. J., 4.273; 4.753 (8.560; 12.840. Phones Ships.
- W1XAL, Boston, Mass., 6:040. Tues., Thurs., 7:30-9:30; Sunday. 5-7 p.m.
- WIXK, Millis, Mass., 9.570. 6 a.m. to midnight.
- W2XAD, Schenectady, N. Y., 15.340. 2:30-3:30 p.m.
- W2XAF, Schenectady, N. Y., 9.530, 7:40-11 p.m.
- W2XE, Wayne, N. J., 6.120, 6-11 p.m. 11.830, 3-5 p.m. 15.270, 11 a.m. to 1 p.m.
- W3XAL, Boundbrook, N. J., 6.100.
- Mon., Wed., Fri., 5-6 p.m. 17.780; daily 9-10 a.m.; Tues., Thurs., Sat., 3-4 p.m.
- W3XAU, Newton Sq., Pa., 6.060. 8 p.m. to 11 p.m.
 - 9.590. Noon to 8 p.m.
- W8XAL Mason, Ohio, 6.060. irregular.
- W8XK, Saxonburg, Pa., 6.140. 4:30 p.m. to 12:30 a.m.

- W9XAA. Chicago, Ill., 6.080. Sun., 11:30 a.m. to 9 p.m. Tues. Thur. Sat. 4-12 p.m. Mon., Wed. Fri. 4:30-7 p.m.
- W9XF, Downer's Grove, Ill., 6.100-Daily exc. Sat. and Sun., 4:30. 8 p.m.; 9:30 p.m. to 2 a.m. Sunday, 4:30-7 p.m. and 9 p.m. to 2 a.m.
- XEBT, Mexico City, D. F., 6.010. Relays XEB, 10 a.m. to 11 p.m.
- XECW, del Caballero del Santokan, Mexico, D. F., 5.980. 11-12 p.m.
- YNA, Managua Nicaragua, 14.480. Phones Hialeah.
- YNIGG, Managua, Nicaragua, "La Voz de los Lagos", 6.385. 7-10:30 p.m.
- YVQ, Maracay, Venezuela, 6.672. Relays Caracas BC stations occasionally.
- YVR, Maracay Venezuela, 9.168. Phones Madrid.
- YV2RC,Caracas Venezuela, 6.112. 5:15-10 p.m.
- YV3RC, Caracas, Venezuela, 6.150. 5-10 p.m.
- YV4RC, Caracas, Venezuela, 6.375: 4:30-10:30 p.m.
- YV5RMO, Maracaibo, Venezuela 5.850: 5:15-10:15 p.m.
- YV6RV, Valencia, Venezuela, 6.520. 'La Voz de Carabobo.''
- ZFB. St. George, Bermuda, 10.060. ZFS, Nassua, Bahamas, 4.513.
 - The Cadena Indo-Americano includes stations: HJ1ABH, PRADO, TIEP, YNLF, YV4RC, YV5RMO.

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11.870. 4:30-10 p.m. 15.210. 10 a.m. to 5:15 p.m. 21.540. 7 a.m. to 2 p.m.

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Equip Your Receiver With The "Perfect" Phone Adapter

To Install:

Simply remove the power tube or tubes and place the small adapter or adapters (shown in the cut) in the sockets. Now put the tubes in the adapters and leave them there. That is all.

To Operate:

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