THE MIDSUMMER 1935

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



(25°)

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

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June 1, 1935



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NUMBER 90

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VERIFICATIONS

in the Short Wave Field

• • • By PAGE TAYLOR

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 identified. Sometimes this is a difficult 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

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 recognition 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 can described, as a "fox trot," "tenor solo," "Saxophone and marimbas," Most of the musical numbers 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, (song), criolla, cancion 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 good reason why no 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." which should but equally acceptable as verifications. Thousands of persons claim to have WLW verifications from and W8XAL, still there are those who veri must specifically insistverify. 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 widely re-transmitted throughout 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 One of these reads, in reception. 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

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: HJ1ABB, OAX4B-D. PRF5, TIEP, PLV, YV2-3RC, Prado, VK2-3ME, VK3LR, CJRX-O. 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 LSX, HPF, KKP, VLJ-VLZ2, and the new one,

"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 ground connected by Giantkiller 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 featured vocalist with her husband's band over the Columbia network. Her husband, as you probably know, is Art Jarrett who recently deserted Hollywood to form his own orchestra. This unique husband and wife team is heard nightly from the College Inn in Chicago.



Ferde Grofe, 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. Grofe 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, XEAW. XEW. WFEA. WDRC. WOKO, etc. as well as old friends like WCAU, WTIC and KSL making the crossing. Others heard in recent include WREN. WTOC. months 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: Normandie, KFPM, KFXM, KXO, KICA, KGFL, WQBZ, 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 "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 1.0 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 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 Wyoming. Ι exception of 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 runeast-west. I can bring ning 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 pep and 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 WABC) are well aware.

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. 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 good catches onthe sw. GSB-C-D, HC2RL, COH, Pontoise, HJ1ABB, HJ3ABF, HP5B, JVF, JVT, KKH, KKP, KZGF, Prado, PRF5, VE9BJ. VE8GW. VK3LR. TIEP. 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, Sottens, Parede, Budapest, Bari, 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 information 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. WMBR. are TGW, XFX, KPCB, 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? 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 54 100-watt 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 HIX. VX2ME-3ME-2BL, 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, I hear at 8:00 p. m. On the sw. I have beard 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 Koesan, 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, I1TR, 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 does it bring them in?" Bob Calder, Box 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., Pittsburgh, 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, I 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 were 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"

● ● By "BETTY"



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 before the with $_{
m him}$ andtwo 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 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.

* * *

Eddie Cantor 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 stepped from behind 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 roll 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.

* * *

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 iu 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. Night-clubs and night-life in general have little appeal for them.

* *

Chatting With Our S. W. Listeners

● ● By PAGE TAYLOR

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 31-meter band," he writes, "there is a new station, HP5J, 9590 kcs., Pana-

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 YV5RMOHJ4ABE 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, I 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-Chief. G. P. O. (Radio Section). St. Armour House. Martin's 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 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-5CMurdo-Silver 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 "Photona" is said to be entirely different from any musical instrument yet produced. (In this respect, it's simily to some of those produced by Major Boves' Amateurs).

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

teurs," 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 about 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 AWA., 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 through 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 CT1CT, 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.

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, Brazil, 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 guite 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.

• • • By JAMES T. SPAULDING*

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 re-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.

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, Ill.

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

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 long-awaited 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!

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

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

• • By B. FRANCIS DASHIELL

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 shortwave band consisted of amateur and commercial transmissions in code which were of little interest to listen-Today, however, in the shortwave band, we find interesting police, aviation. amateurand 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-

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 un-

usual 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 pass 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 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, second 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

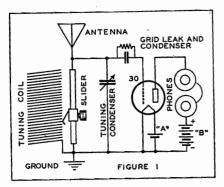
Simply changing the tuning condenser will not provide reception on the short waves. If you examine your broadcast receiver when it is tuned to a station on approximately 200 meters, or 1,500 kilocycles, you will see that the rotor plates of the variable condensers in the gang unit have become entirely unmeshed from between the stator or stationary The condenser capacity is plates. 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 short-wave 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 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.

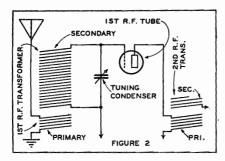
Variable Coils

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-



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. 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 re-Its selectivity may prove ception. 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 be untouched. A radio set having 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 one is the detector. changes that are made must be carried out identically throughout all three stages. The secondary coils of

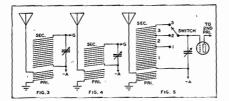


the r.f. transformers are easily identified, usually by tracing back the grid lead from the tubes.

The R. F. Transformers

Figure 2 shows a typical stage of radio-frequency amplification. 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. ern 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 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 The leads from the each coil. switch points (1 and 2 of Figure 5) are carefully soldered to bared spots on the proper turns of wire. treme 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.

Plug-In 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. trans-This will provide reformer coils. ception between approximately 100 meters and 350 meters, covering police and amateur and aviation calls, as well as nearly one-half of Removal of the broadcast band. 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 \mathbf{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 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 The coils can be made acneeded. cording 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

HE May-June-July-August edition of the DX Log of the World went to subscribers and news-This will be stands late in April. 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 in-Beginning with the stead of two. September issue, we are therefore cembining 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 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 transmit-We are now in the process of ters.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 370-foot 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 B. 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 revue, "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. 7-tube 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 all-wave 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 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.; Moncton, N. B.; Montreal; Ottawa; Quebec; Regina, Sask.; St. Catharine, Ont.; St. John, N. B.:

Toronto; 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

I 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 por-

tions 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 At that time there were control. 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 The stations were then published. 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 programs. 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 I 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, KMOX, 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, WJAX, WJBW, WJZ, WJDX, WJSV, WKAQ. WKBW. WLS, WLW, WMAS. WNAC, WMBD. WOAI. WOC. WROK, WOWO, WPG, WRVA. WSAI, WSB, WSM, WTAM, WTIC, XEAW, WTJS. WWVA, 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 in 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 pianist.

The New Zealand DX Club

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 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)

kcs. 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 KGFI."

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 $17\frac{1}{2}$ c.

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No. 49 May, 1931

No. 50 June, 1931

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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.
Living New Tybes in Place of Old 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

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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?

• • By B. FRANCIS DASHIELL

ERHAPS most of 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 band-spread 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.

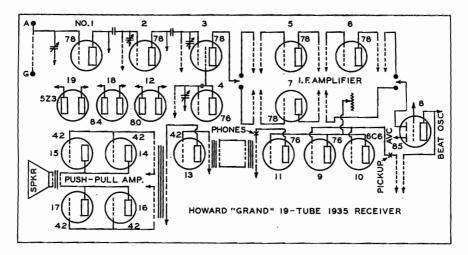
Three Separate Units

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 tone 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 oscillator tube. Band changing 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 high-gain 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 push-pull parallel system. 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

		MEN
850	TIEP	San Jose, C. R.
930	TIRH	San Jose, C. R.
	TIGH	San Jose, C. R.
1050		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.
911	TICR	San Jose, C. R.
1100	TIRCA	San Jose, C. R.
1210	KWFV	Hilo, Hawaii
1310	\mathbf{KFPM}	Greenville. Texas
		FREQUENCIES
706	RDN	San Salvador, E. S., from 68c
890	WILL	Urbana, Ill., from 580
1210	WCBS	Springfield, Ill., from 1420
1430	KSO	Des Moines, Iowa, from 1320
		POWER
560	\mathbf{KWTO}	Springfield, Mo., 1000 to 5000
890	WMMN	Fairmont, W. Va., 250 to 500
1200	KOOS	Marshfield, Ore., 100 to 250

CALLS

Ardmore, Okla., from KIUO

1210 KVSO

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by B. Francis Dashiell

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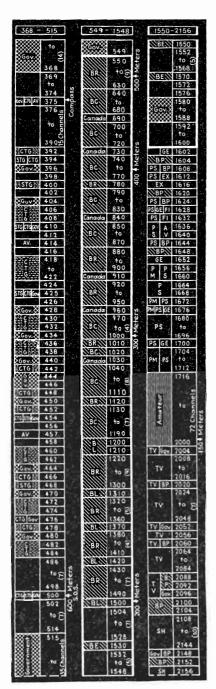
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The Frequency Allocation

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



FOR the approach of summer with its increased static, the Muter Company, 1255 South Michigan Ave., Chicago, presents a new all-wave 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

SHELL ALL

• • By THE TECHNICAL EDITOR

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 itstarted its old tricks again. Can you help me?

It appears to us that some high-value 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 trouble. This very likely accounts 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 combinations of the incoming 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 differs with This kilocycles. 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

Use Headphones for Short-Wave!

Sensitive signals from "half way" round the world come in best on headphones. TRIMM Featherweights are the phones the experts use.

Ask your dealer or write the factory.



TRIMM

Radio Mfg. Co. Dept. RX6 1528 Armitage Avenue Chicago, U. S. A. 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 high-value resistors and by-pass condensers may short-circuit or break open and thus account for this sort of trouble. The problem becomes increasingly difficult as the serviceman must wait sometimes many hours before this condition will occur. It 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 I add automatic volume control; and what tube changes do you advise. What is a good aerial system to use with this set?

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 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 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. cir-

cuit. 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 Issues 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 de-

tector, 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 arresters 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. 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

• • • By D. C. STENT*

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 On the other hand nearby stations. 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 investigate all case. to the Much can be heterodyne whistles. 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" emanating from Europe can be heard. 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 noise-reducing 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.

air at 00.30 EDST: Berlin, Breslau, Hamburg, Moscow, and sometimes a few other German stations. 01./0 the following stations commence transmitting: Cologne, Deutchlandsender. Frankfurt. nigsberg, Leipsig, Munich, and Stutt-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 Programme" Often the station in one "region" relays the programme of another region, thus we have the Midland Regional station transmit-

ting the Studio Orchestra of the Scottish Regional station. fore the Midland Regional announcer will say: "The next part of the Midland programme will be announced 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 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

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, Delhi, 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. KZIB, Manila, P. I. 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, VCX.

4TO, Townsville, Ausl., by Joel Armantrout, Fitz-gerald, 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, 4RO 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, Pontiac, 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

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

Advise the Editor

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.

COLUMBIA(C)					
Call	Dial				

NATIONAL, Red (R)				
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 vour 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 WJAX WJR WJZ WLW WMAL WRVA WSYR

ED-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 WFIL WFLA WHAM WIOD WIS WJAX WJZ WMAL WPTE WSOC WSYR WTAR WWNC

R - Stories of Black Chamber KYW WBEN WCAE WCSH WEAF WEEI WGY WJAR WMAQ WRC WSAI 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

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

B - Red Davis; Drama

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

- Easy Aces

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

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

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

R - Uncle Ezra

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R - Richard Himber and Orchestra KPRC KSD KTBS KVOO WBAP 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 WARC WDAE WDOD WGST WIBX WJSV WKBW 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 WBBM WBNS WBT WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WHAS WHK WICC WJAS WJSV WKBW WKRC WNAC WOKO WOWO WREC WSPD

- Otto Harbach Musical Show KDYL KFI KFYR KGO KGW KHQ

KOA KOMO KPRC KSD KSTF 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 C — Wayne King and Orchestra 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 WHK WIBW WJAS WJSV

R — Contented Program

WKBW WKRC WOKO WSPD

CFCF CRCT KDYL KFI KFYR 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 WTAG WTAM WTIC WTMJ WWJ

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

R - 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
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 WTMJ

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 R — Voice of Firestone KDYL KFI KFSD KGHL KGIR

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 — 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 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

R — Leo Reisman and Orchestra

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 WJZ WLS WLW WMAL WREN 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

B — Edgar Guest; Welcome Valley

KDKA KOIL KSO KWK WBAL

WBZ WBZA WCKY WFIL WGAR

WHAM WJR WJZ WLS WMAL

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

WMT WREN WSYR

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
WKBW WKRC WNAC WOKO
WOWO WREC WSPD

R --- Ben Bernie and Orchestra

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 KHQ 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 WHK WJAS WJSV WKBW
WKRC WMAS WNAC WOKO WOWO

R — Ed Wynn; Eddie Duchin

KDYL KFI KFSD KFYR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KYOO 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 WRYA WSB WSM WSMB WSOC WTAG WTAM WTIC WTMJ WWJ

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 WKBN WLAC WKBW WKRC WMBD WLBZ WMAS WLBW 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

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
CKAC CKLW KFH KGB KGKO
KHJ KLRA KLZ KMBC KOH KOL
KOMA KRLD KTRH KTSA KYI
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 WKBN WKRC WLAC WLBZ
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 WACO 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
SFA WSJS WSPD WTOC WWVA
SFA TONY AND GROWN

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
WORC WFG WQAM WSBT WSFA
WSJS WSPD WTOC WWYA

R — Leo Reisman and Orchestra KDYL KFI KFSD KGIR KGU KGW KHO 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'Neili's, See Monday

R - Easy Aces, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 --- 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 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 WRVA WSAI WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ

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 WHK 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

CKLW KDB KFBK KFH KFPY KFRC KGB KHJ KLRA KMBC KMOX KOH KOL KRLD KTRH KTSA KTUL KVOR KWG KWKH WABC WACO WADC WALA WBBM WBIG WBRC WBT 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 - Everett Marshall; Victor Arden CKLW KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KVI KWG WABC WADC WBBM WBT WCAO WCAU WDRC WDSU WEAN WFBL WFBM WGR WHAS WIBW WJAS WJSV WKRC WLAC WNAC WOKO WOWO WSPD

R - Wayne King, See Tuesday

B - House of Glass; Drama

KDKA KOIL KSO WBAL WBZ WBZA WFIL WFLA 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 - Fred Allen

KPRC KSD KSTP KTBS KVOO WBEN WCAE WCSH WDAF WEAF WEBC WEEL WFBR WGY WIOD WIS WJAR WJAX WKY WLIT WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM 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 WMAL WMT WREN WSYR

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

CKLW KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KTRH KTSA KVI KWG WABC WADC WBBM WBIG WBT WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WHK WJAS WJSV WKBW WKRC WNAC WOKO WORC

-Guy Lombardo and Orchestra KPRC KSD KTBS KTHS KVOO WAVE WBEN WCAE WCSH WDAF WEAF WEEI WFAA WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKBF WKY WLIT WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WWJ

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 KWKH WAAB WABC WACO WADC WALA WBBM WBIG WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGR WHEC WHP WIBW 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 KHQ KOA KOMO KPO KSD KYW WAPI WAVE WBEN WCAE WCSH WEAF WEEI WFBR WGY WHO WJAR WJDX WKBF WLW WMAQ WMC WOW WRC 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 - Dance Orchestra

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

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 KHQ 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 Menday

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 Rogers, 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 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

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

- Kate Smith

CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KSL KVI KWG WABC WADC WBBM WCAO 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 - 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 WDOD WDRC

THURSDAY (Continued)

WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WICC WISN WJAS WJSV WEBN 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 WCC WWW
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWN C

B — Death Valley Days; Drama KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR WJZ WLS WLW WMAL WREN

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Fred Waring's Pennsylvanian's
CFRB CKLW CRCM 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 WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WDSU WEAN WFBL
WFBM WFEA WGLC WGST WHAS
WHEC WHK WHP WIBW WICC
WISN WJAS WJSY 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

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 WLEW WLBZ
WMAS WMBD WMT WNAC WNAX
WNOX WOKO WORC WPG WQAM
WSBT WSFA WSJS WSPD WTOC

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'Keefo 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 WLS 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 WQAM 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 C — Hollywood Hotel

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

B - 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 W LIT 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 WOAI
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 KMOX 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 KFI KFSD
KFYR KGHL KGIR KGW KHQ
KOA KPO KPRC KSTP KTAR
KTBS KTHS KYW WAPI WAVE
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEI WFAA WFBR
WFLA WGY WHIO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMAQ WMC WOW WPTF WRVA
WSAI WSMB WSOC WTAG WTAM
WTIC WWJ WWNC

C — Col. Stoopnagle and Budd
CKLW KGB KGKO KHJ KLRA
KMBC KOH KOL KOMA KRLD
KSCJ KVI KVOR KWKH WAAB
WABC WACO WBBM WBIG WBNS
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
WORG
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 WDODW 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 C — Richard Himber and Orchestra KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMJ KOIN KOL KSL KVI 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
WABG 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 — Soconyland 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
R — Thornton Fisher Sports Review
KDYL KFYR KOA KSD KSTP
KYW WAPI WAVE WBEN WCAE
WCSH WDAY WEAF WEBE WFLA
WGY WHIO WIBA WIOD WIS
WJAR WJAX WJDX WMAQ WMC
WOW WPTF WRC WRYA WSAI

WSB WSMB WSOC WTAG WTAM WTAR WTIC WWJ WWNC

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

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

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

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WAPI WAVE WBAP WBEN WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNO

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

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

B - National Barn Dance

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 RVOO KYW WAVE WBAP WBEN WCAE WCSH WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WIBA WIOD WIS WJAR WJAX WJDX 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

CRAC CKLW KLRA WAAB WABC
WBT WDAE WDBJ WDBO WDDO
WDRC WDSU WFBM WGLC WGR
WHEC WHP WIBW WJAS WJSV
WKRC WLAC WORC WQAM WSBT
WSFA WSIS 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 — Salt Lake Tabernacle Choir

CKLW KFH KGKO KLRA KLZ
KOH KRLD KSCJ KSL KTRH
KTSA KWKH WABC WACO WADC
WALA WBBM WBMS WCCO WADE
WDBO WDOD WDRC WDSU WEAN
WFBL WFBM WFFA WGLC WHK
WHP WIBW WICC WISN WJAS
WJSY WLAC WLBW WLBZ WMAS
WMBD WMBR WMT WNAC WNAX
WNOX WOKO WORC WQAM WREC
WSFA WSFD

R - 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

R — What Home Means to Me
KDYL KEFI KGW KHQ KOA KOMO
KPO KPRC KTBS KTHS KVOO
KYW WBAP WBEN WCAE WCSH
WEAF WEEI 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

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

CFCF CRCT KDBA KDYL KFI KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KYOO 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 KHJ
KLRA KLZ KOH KRLD KSCJ KSL
KTRH KTSA KWKH WAAB WABC
WACO WALA WBBM WBIG WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDNC WDOD WDRC WDSU
WFBL WGLC WGR WHEC WHP
WIBW WJAS WJSV WKRC WLAC
WLBW WLBZ WMBR WMT WNOX
WOKO WORC WFG WQAM WREC
WSBT WSFA WSJS WSPD WWYA

ED-1:30p.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 WBBM WBNS WBT WCAU WCCO WDRC WFBL WFBM WGR WHAS WHK WJAS WJSV WOWO

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 KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KVI KWG WABC WADC
WBBM WBNS WBT WCAO WCAU
WCCO WDBJ WDRC WDSU WEAN
WFBL WFBM WGST WHAS WHEC
WHK WIBW WJAS WJSV WKBW
WKRC WLAC WMBG WMT WNAC
WOWO

B — Your English

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 WLIT WMAQ WHO 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 KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KVI KWG WABC
WADC WBBM WBT WCAO WCAU
WCCO WDBJ WDRC WDSU WEAN
WFBL WFBM WGST WHAS WHEC
WHK WIBW WJAS WJSV WKBW
WKRC WLAC WMBG WMT WNAC
WOWO

B — Lux Program; Dramas

KDKA KDYL KPI KFYR KGO
KGW KHQ KOA KOIL KOMO KPRC
KSO KSTP KTBS KTHS KVOO
KWCR KWK WBAL WBZ WBZA
WDAY WBC WFAA WGAR WHAM
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 WĆSH WDAF WEAF WEEI WFBR WGY WHO WJAR WLIT WLW WMAQ WOC WOW WRC WTAG WTAM WTIC WWJ

C — Howard Barlow Symphony CFRB CKAC CKLW KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KHJ 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
WCOO WCOA WDAE WDBJ WDBO
WDNC WDODD WDRC WDSU WEAN
WFBL WFBM WGST WHAS WHK
WHP WIBW WICC WJAS WJSV
WKBN WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNOX WOKO WORC WPG WQAM
WREC WSBT WSFA WSJS WSPD

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

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 WHP WIBW WICC WJAS

WJSV WKBN WKBW WKRC WLAC

WLBZ 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 KTHS KVOO

CFCF CRCT KTBS KTHS KV00 KYW WBAP WBEN WCAE WCSH WDAF WEAF WEEI WFBR WGY WJAR WKY WMAQ 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 WHEC 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 WSM 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 WDAF WDAY
WEAF WEBC WEEI WFBR WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKBF WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSMB WTAG
WTAM 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 KFI 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

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 KFBK
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 WHK WHP WICC
WISN WJAS WJSV WKBW WKRC
WLAC WLBW WLBZ WORC WQAM
WREC WWVA

B — Compana Grand Hotel

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

C — Roadways of Romance

KDB KERN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMOX KOIN KOL KSL KVI KWG WABC WBBM WCAO WCAU WCCO WDRC WFBL WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO

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 WCSH 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 CKLW KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KTRH KTSA KTUL KVI KWG WAAB WABC WADC WBBM WBRC WBT WCAO WCAU WCCO WDRC WDSU WEAN 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 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
WRVA WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ WWNC

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

CKLW KLRA KRLD KTRH KTSA WABC WACO WADC WALA WBIG WBNS WBRC WBT WCAO WCAU WDAE WDBJ WDBO 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 KFH KFPY KFRC KGB KGKO
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KBCJ KSL KTRH KTSA
KTUL KVI KVOR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGR WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJSV WKBH WKBN WKRC WLAC WLBW WLBZ WMAS WMBR WMT WNAC WNAX WNOX WOKO WORC WOWO WOAM WSBT WSFA WSJS WSPD WTOC WWVA

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 KOAI 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 WFBR WFI WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNC

B - Walter Winchell

KDKA 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 KOIL 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 WLW WMAQ WOW WRC WTAG WTAM WTIC WTMJ 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 KTRH KTSA KVOR KWKH WABC WACO WADC WALA WBIG WBNS 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 WMBR WMT WNAX WNOX WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC

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

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

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

KDYL KFI KFSD KGHL KGIR KGW KHQ 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 Bestor KDYL KFSD KGIR KGU KHQ KOA KOMO KTAR

ED-12:00p.m., E-11:00, C-10:00, M-9:00 Rev. Charles E. Coughlin

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 Eddie 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 Ferde 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. Tues. 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. Sunday, 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 Warfing, 9:30 p.m. Thursday, R
Fred Warfing, 9:30 p.m. Thursday, R
Fred Warfing, 9:30 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. The O'Neills, 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

Major Bowes, 11:30 a.m. Sunday; 8:30°p.m. Sunday, R California Melodies, 10:30 p.m. Saturday, C Cities Service Concert, 8:00 p.m. Friday, R Contented Program, 10:00 p.m. Monday, R Fielschmann Variety, 8:00 p.m. Thursday, R Gibson Famly Musical, 10:00 p.m. Sunday, R Gibson Famly Musical, 10:00 p.m. Sunday, R Gulf Headliners, 8:30 p.m. Sunday, C Gulf Headliners, 8:30 p.m. Sunday, C Lucky Strike, 8:00 p.m. Friday, C Lucky Strike, 8:00 p.m. Friday, C Lucky Strike, 8:00 p.m. Monday, 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, R Mexican Musical Tours, 9:30 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. Sunday, R Radio City Party, 9:00 p.m. Sunday, R Roadways of Romance, 7:00 p.m. Sunday, R Roadways of Romance, 7:00 p.m. Sunday, R Roadways of Romance, 7:00 p.m. Sunday, C Sincialr 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
Marlo 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
Ewerett Marshall, 8:30 p.m. Wednesday, C
James Melton, 9:30 p.m. Monday, R
Ethel Merman, 8:00 p.m. Sunday, C
James Melton, 9:30 p.m. Sunday, C
Gertrude Niesen, 9:30 p.m. Monday, C
Frank Munn, 9:30 p.m. Sunday; 9:00 p.m. Friday, R;
8:00 p.m. Tuesday, C
Gertrude Niesen, 9:30 p.m. Monday, C
Frank Parker, 7:00 and 11:30 p.m. Sunday, B
Sanderson-Crumit, 5:30 p.m. Sunday, C
Sivienne Segal, 8:30 p.m. Thursday, R
Sanderson-Crumit, 5:30 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 $\bullet \bullet \bullet Bv$ 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 Ceylon.

I am equipped with a Philco 28-C for both a.c. and d.c., 115 volts. Nearly all ships affoat 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. 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 staafter nightfall so that I switched entirely to the s.w. band ranging from four to thirteen megacveles.

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; W2XAF.XEBT, CJRX. W8XAL and W9XF.

KEY TO SYMBOLS

As Shown in the Index by Frequencies and Dial Numbers

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
- d Verification 10c: letter 25c.
- Sends Ekko stamp for 10c.
- Sends Ekko stamp for 5c.
- Sends Ekko stamp for postage.
- Sends own station stamp for 10c.
- Sends own station stamp for 5c. Sends own station stamp for postage.
- Has no stamps.
- \mathbf{m} Verifies for 5c.
- n Weather or time only.
- No information available.
- Fourth Column Symbols
- American Broadcasting System.

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

INDEX	BI FREQUENCIES
540 kilocycles	WMT af 1000 B (2.5) Cedar Rapids, Iowa WREC ak 1000 C (2.5) Memphis, Tenn.
CJRM ak 1000 F Moose Jaw,	Sask. 610 kilocycles
550 kilocycles	KFRC ak 1000 C (5) San Francisco, Calif.
CITATO -1- 1000 TO TO 1-1-1-1-	N D KINY z 250 P Juneau Alaska
KFUO ae 500 2 (1) St. Louis, M KFYR ae 1000 N (5) Bismarck, N KOAC ak 1000 Corvallis, O	WDAF ak 1000 R (5) Kansas City, Mo. WIP ae 500 A (1) Philadelphia, Pa.
KFYR ae 1000 N(5) Bismarck, N	WIP ae 500 A (1) Philadelphia, Pa. WJAY ae 500 Cleveland, Ohio
KOAC ak 1000 Corvallis, O KSD ak 1000 2R (5) St. Louis, M	re. WJAY ae 500 Cleveland, Ohio XFX ak 500 Mexico City, D. F.
KSD ak 1000 2R (5) St. Louis, M KTSA ak 1000 C (5) San Antonio	Teres
WDEV ae 500 D Waterbury, WGR ae 1000 C Buffalo N	Vt. 620 kilocycles
WKRC ak 1000 C (2.5) Cincinnati, WSVA z 500 DP Staunton,	Ohio KGW ak 1000 N (5) Portland, Ore.
WSVA z 500 DP Staunton, V	Ohio (a. KGW ak 1000 N (5) Portland, Ore. KTAR ae 1000 N Phoenix, Arlz. WFLA ae 1000 Na. Clearwater, Fla.
560 kilocycles	WHJB ak 250 (.5) Greensburg, Pa. WLBZ ak 500 C (1) Bangor, Maine
	WSUN ae 1000 Na (1) St. Petersburg, Fla.
KFDM ak 500 (1) Beaumont, KLZ ae 1000 C (2.5) Denver, Col	
KLZ ae 1000 C (2.5) Denver, Col KTAB ak 1000 San Francis	co, Calif. C20 1-1
KWTO ak 5000 D Springfield, TGW ak 10000 565 Guatemala	Mo. 630 kilocycles
WELL se 1000 B Philadelphia	i. Pa. CFCY ae 1000 F Char't'w'n. P.K.I.
WIND ak 1000 (2.5) Gary, Ind. WNOX ak 1000 C (2) Knoxville, T WQAM ae 1000 C Miami, Fla.	CJGX ak 500 F Yorkton, Sask. enn. CKOV ak 100 F Kelowna, B. C.
WQAM ae 1000 C Miami, Fla.	KFRU ak 500 1(1) Columbia, Mo.
XEAO ak 250 (.15) Mexicali, B.	KFRU ak 500 1(1) Columbia, Mo. C. KGFX ak 200 D Pierre, S. D.
	WGBF ac 500 1 Evansville, inc.
570 kilocycles	WMAL ak 250 B (.5) Washington, D. C. WOS ak 500 1D Jefferson City, Mo.
570 Kilocycles	WPRO ak 250 A Providence, R. I.
KGKO ak 500 C (1) Wichita Fal	XEZ 7 500 Merida Viic
KMTR ak 500 Hollywood,	Calif
KVI ak 1000 Tacoma, W: WKBN ae 500 1C Youngstown	640 kilocycles
WKBN ae 500 1C Youngstown WMCA ak 500 A New York, I WNAX ak 1000 C (5) Yankton, S	N. Y. CMBY z 125 Havana, Cuba
WMCA ak 500 A New York, I WNAX ak 1000 C (5) Yankton, S WOSU ak 750 1 (1) Columbus,	N.Y. CMBY z 125 Havana, Guba D. KFI ak 50000 N Los Angeles, Calif. Ohio WAIU ae 500 Columbus, Ohio
WOSU ak 750 1 (1) Columbus, WSYR ak 250 B Syracuse, N	Ohio WAIU ae 500 Columbus, Ohio Y. WOI ae 5000 D Ames, Iowa
WOSU ak 750 1 (1) Columbus, WSYR ak 250 B Syracuse, N WWNC ae 1000 N Asheville, N	Y. WOI ae 5000 D Ames, Iowa C. XEOX ak 250 Saltillo, Coah.
580 kilocycles	650 kilocycles
Job Knocycles	WSM ae 50000 N Nashville, Tenn.
CHRC ak 100 F Quebec, Qu	e. WSM ae 50000 N Nashville, leili.
CKCL ae 100 F Toronto. Or	Alta. 660 kilocycles
CKUA ak 500 Edmonton,	Alta.
KMJ ak 1000 C Fresno, Cali KSAC ak 500 2(1) Manhattan,	Kans. WAAW ak 500 D Omaha, Neb. WEAF ak 50000 R New York, N. Y.
WCHS ak 500 (1) Charleston,	W. Va. WEAF ak 5000 D Omaha, Neb. WEAF ak 50000 R New York, N. Y.
WDRO as 1000 C Orlando, kil	3. WEAT RE SOULD R NEW TOTE, N. I.
WIBW ak 1000 C2 (5) Topeka, Ka: WTAG ae 500 R (1) Worcester, N	18. 670 kilocycles
700 1-11 1	WMAQ ck 50000 N Chicago, Ill.
590 kilocycles	—— 680 kilocycles
KHQ ak 1000 N (2.5) Spokane, W WEEI ak 1000 R Boston, Mac	ash. CMCQ z 250 Havana, Cuba
WEEI ak 1000 R Boston, Mas WKZO ae 1000 D Kalamazoo,	s. KFEQ ae 2500 D St. Joseph, Mo. Mich. KPO ak 50000 N San Francisco, Calif.
WKZO ae 1000 D Kalamazoo, WOW ae 1000 R (5) Omaha, Nel	Mich. KPO ak 50000 N San Francisco, Calif. VAS akn 2000 685 Glace Bay, N. S.
WOW ae 1000 R (5) Omaha, Nel XEPN ak 50000 PiedrasNegr	VAS akn 2000 685 Glace Bay, N. S. VOWR ck 500 681 St. John's, Nfd. WPTF ae 1000 DnN (5) Raielgh, N. C.
	WPTF ae 1000 DnN (5) Raleigh, N. C.
600 kilocycles	690 kilocycles
CUCE as 400 Mantagel C	
CFCF ae 400 Montreal, C CJOR ak 500 Vancouver,	C CJCJ ak 100 F Calgary, Alta.
CMW ak 100 Havana, Cul	12 NAA aku 1000 Arungton, va.
CRCW z 1000 F Windsor, Or	
FON 2 250 609 St. Pierre. N	relif 700 1-:10 over 1
WCAC ak 500 2 Storrs, Con-	Calif. 700 kilocycles
WCAO ae 500 C (1) Baltimore, WICC ae 500 2 C (1) Bridgeport,	Md. RDN z 500 706 San Salvador, E. S.
WICC ae 500 2 C (1) Bridgeport,	Conn. WLW ak 500000 N Cincinnati, Ohio

710 kilocycles		810 kilocycles	
KMPC ae 500 KPCB ae 250 WOR ak 50000 XEN ak 1000 711	Beverly Hills, Calif Seattle, Wash. Newark, N. J. Mexico City, D. F.	CMCF ak 250 815 CMHW z 100 WCCO ae 50000 C WNYC ak 1000 N XFC z 350	Havana, Cuba Cienfuegos, Cuba Minneapolis, Minn New York, N. Y. Aguascalientes, Ags.
720 kilocycles		820 kilocycles	
WGN ck 50000	Chicago, Ill.	WHAS aj 50000 C XETW dk 500	Louisville, Ky. Mexico City, D. F.
730 kilocycles		830 kilocycles	
CFPL ak 100 F CJCA ah 1000 F CKAC ak 5000 C CMAF ak 250 XEBC ak 5000	London, Ont. Edmonton, Alta. Montreal, Que. Havana, Cuba Agua Caliente, L. C.	CMC ae 500 835 KOA ak 50000 N WEEU ak 1000 D WHDH ae 1000 Dn A	Havana, Cuba Denver, Colo. Reading, Pa. Boston, Mass.
740 kilocycles		WRUF ae 5000 Dn	Gainesville, Fla.
KMMJ ae 1000 D KTRB ak 250 D	Clay Center, Neb. Modesto, Calif.	840 kilocycles	
WHEB ak 250 D WSB ah 50000 N XELC z 100	Modesto, Calif. Portsmouth, N. H. Atlanta, Ga. Mexico City, D. F.	CFQC ak 1000 F CMQ z 500 CRCT ak 5000 F VOGY ak 400 XEP z 500	Saskatoon, Sask. Havana, Cuba Toronto, Ont. St. John's, Nfld. Mexico City, D. F.
750 kilocycles		XEP z 500 XEXX z 500 845	Mexico City, D. F.
CMCW dk 117 KGU aj 2500 N WJR ak 10000 B	Havana, Cuba Honolulu, T. H. Detroit, Mich.	850 kilocycles	
760 kilocycles		KIEV aj 250 D TIEP z 500 WESG ak 1000 WWL ae 10000	Glendale, Calif. San Jose, C. R. Elmira, N. Y. New Orleans, La.
CMJK ak 150 KXA ae 250 (.5) WBAL ae 10000 BSy	Camaguey, Cuba Seattle, Wash.	WWPA z 250 DP	Clarion, Pa.
WEW ae 1000 D WJZ ck 50000 BSy	Camaguey, Cuba Seattle, Wash. Baltimore, Md. St. Louis, Mo. New York, N. Y.	860 kilocycles	
770 kilocycles	Tijuana, L. C.	WABC ae 50000 C WHB ae 1000 D XEMO ak 2500 865	New York, N. Y. Kansas City, Mo. Tijuana, B. C.
CMBS ak 130	Havana, Cuba	870 kilocycles	
KFAB ae 10000 CSy WBBM ae 50000 CSy	Lincoln, Neb. Chicago, Ill.	WENR ak 50000 Na WLS ae 50000 Na	Chicago, Ill. Chicago, Ill.
780 kilocycles		880 kilocycles	
CHWK ak 100 F CKSO z 1000 F	Chilliwack, B. C. Sudbury, Ont. Burbank, Calif.	CFJC ak 100 F CRCO ak 1000 F	Kamloops, B. C.
KELW ae 500 2 KFDY ae 1000 D	Brookings, S. D.	KFKA ak 500 2(1) KLX ae 1000	Ottawa, Ont. Greeley, Colo. Oakland, Calif. Denver, Colo.
KFQD ck 250 KGHL ak 1000 N (2.5)	Anchorage, Alaska Billings, Mont.	KPOF ak 500 2 WCOC ae 500 (1)	Denver, Colo.
KGHL ak 1000 N (2.5 KTM ak 500 2 (1) WEAN ac 500 C	Los Angeles, Calif.	WGBI ae 500 1 WPHR z 500 D	Meridian, Miss. Scranton, Pa.
WMC aj 1000 N (2.5) WTAR ae 500 N (1) XEYZ z 10000	Memphis, Tenn. Norfolk, Va. Mexico City, D. F.	WOAN ae 250 1 WSUI ae 500 (1)	Petersburg, Va. Scranton, Pa. Iowa City, Iowa
790 kilocycles		890 kilocycles	·
CMOA z 72 KGO ak 7500 N WGY ak 50000 R	Havana, Cuba San Francisco, Calif. Schenectady, N. Y.	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	S. Ste. Marie, Ont. Little Rock, Ark. Shenandoah, Iowa Pocatello, Idaho Vermillon, S. D. W. Lefayette, Ind
800 kilocycles		WBAA ak 1000 D WILL ak 1000 WGST aeh 250 C(1)	W. Lafayette, Ind. Urbana, Ill. Atlanta, Ga.
WBAP ak 50000 Na WFAA ak 50000 Na WTBO ae '250 D	Fort Worth, Tex. Dallas, Tex. Cumberland, Md.	WJAR ae 500 R WJMN ae 500 (1) XEW ak 50000	Providence, R. I. Fairmont, W. Va. Mexico City, D. F.

900 kilocycles	,	970 kilocycles	
KGBU ak 500	Ketchikan, Alaska	KJR z 5000 N	Seattle, Wash.
KHJ ae 1000 C(5)	Los Angeles, Calif. Buffalo, N. Y. Frederick, Md.	WCFL ae 1500 B	Seattle, Wash. Chicago, Ill. Glenside, Pa.
WBEN ae 1000 R WFMD z 500 DP	Buffalo, N. Y. Frederick Md	WIBG ak 100 D	Glenside, Pa.
WJAX aeh 1000 N		000 1-111	
	Oklahoma City, Ok. Stevens Point, Wis.	980 kilocycles	
WLBL ak 2500 D WMFI z 500 DP	New Haven, Conn.	KDKA bk 50000 B	Pittsburgh, Pa.
WTAD ak 500 D	Quincy, Ill.		
010 1 11 1	(990 kilocycles	
910 kilocycles		WBZ ak 50000 BSy	Boston, Mass.
CJAT ak 250 F	Trail, B. C.	WBZA ak 1000 BSy	Springfield, Mass.
CRCM ak 5000 F XENT ck 60000	Montreal, Que. Nuevo Laredo, Tams	XEK ak 100 XES dk 250	Mexico City, D. F. Tampico, Tams.
AENT CK 00000	Nuevo Laredo, Tams	200	rampico, ramo.
920 kilocycles		1000 kilocycles	
CMX ae 650	Havana, Cuba	CMBZ ak 120	Havana, Cuba
HHK ae 1000	Port-quaPrince Haiti	KFVD ak 250 Dn	Los Angeles, Calif.
KFEL ak 500 2 KOMO ak 1000 N	Denver, Colo.	TIGH z 500 WHO ak 50000 R	San Jose, C. R. Des Moines, Iowa
KPRC ae 1000 N (5)	Houston, Texas	WIIO AK SUUU K	Des Moines, Iowa
KVOD ak 500 2	Denver, Colo. Seattle, Wash. Houston, Texas Denver, Colo.	1010 kilocycles	
WAAF ak 500 D WBSO ae 500 D	Chicago, Ill. Babson Park, Mass.	CHML aci 50 F	Hamilton, Ont.
WPEN ak 250 (.5) 1	Philadelphia, Pa. Philadelphia, Pa.	CHWC ak 500 3F	Regina, Sask.
WRAX ak 250 1 (.5) WSPA ae 1000 D	Philadelphia, Pa. Spartanburg, S. C.	CKCD ak 100 CKCK ak 500 3F	Vancouver, B. C.
WWJ ak 1000 R	Detroit, Mich.	CKCK ak 500 3F CKCO z 100	Regina, Sask. Ottawa, Ont. Wolfville, N. S.
XEAA z 200 XEFE z 250	Detroit, Mich. Mexicali, B. C. Nuevo Laredo, Tams.	CKIC ak 50	Wolfville, N. S.
XEFE z 250	Nuevo Laredo, Tams.	CD C TO	Vancouver, B. C.
930 kilocycles		KGGF ak 1000 2	Coffeyville, Kans.
	Coldary Alta	KOW ae 1000 TIGA z 30 1014	Camaguey, Cuba Coffeyville, Kans. San Jose, Calif. Cartago, C. R. New York, N. Y.
CECH at 100 F	Calgary, Alta. North Bay, Ont.	WHN ae 1000	New York, N. Y.
CFLC ae 100	North Bay, Ont. Prescott, Ont. Halifax, N. S.	WIS ae 1000 N (2.5) WNAD ae 1000 2 (1)	Columbia, S. C. Norman, Okla.
CHNS ae 1000 F CKPC ae 100 F	Brantford, Ont.	WNAD ae 1000 2 (1) XEAF z 250 XEU ak 250	Nogales, Sonora
CKPR ak 100 F	Fort William, Ont.	XEU ak 250	Veracruz, Ver.
KGBZ ak 1000 2 (2.5) KMA ak 1000 2 (2.5)	York, Neb. Shenandoah, Iowa	1020 kilocycles	
KROW ak 500 (1)	Shenandoah, Iowa Oakland, Calif.		71111111
TIRH z 50 WBRC ak 1000 C WDBJ ae 1000 C	San Jose, C. R. Birmingham, Ala.	KYW ak 10000 R XEJ ak 1250	Philadelphia, Pa. Juarez, Chih.
WDBJ ae 1000 C	Roanoke, Va.		
040 1-111		1030 kilocycles	
940 kilocycles		CFCN ak 10000 F	Calgary, Alta.
CMBC de 195	Havana, Cuba	CKLW ae 5000 C CMCY ak 1000	Windsor, Ont. Havana, Cuba
CMKM z 100 KOIN ak 1000 C (5)	Manzanillo, Cuba Portland, Ore.	CMCY ak 1000 XEB ak 10000	Mexico City, D. F.
VOAS ak 100	St John's Nifld		
WAVE ak 1000 N	Jersey City, N. J.	1040 kilocycles	
WCSH ae 1000 R (2.5)	Jersey City, N. J. Louisville, Ky. Portland, Maine Fargo, N. D. Madison, Wis. Mexico City, D. F.	CMGH ak 15 KRLD ae 10000 C	Matanzas, Cuba
WDAY ae 1000 N (5) WHA ak 2500 D	Fargo, N. D.		Dallas, Texas Portland, Ore.
XEFO ak 5000	Mexico City, D. F.	WKAR ak 1000 D	East Lansing, Mich.
	-	WTIC ak 50000 R	Hartford, Conn.
950 kilocycles		1050 kilocycles	
CRCS ak 100 F	Chicoutimi, Que.	CFCO ak 100 F	Chatham, Ont.
KFWB ak 1000 (2.5)	Hollywood, Calif.	CRCK z 1000 F	Quebec, Que. Abilene, Kans.
KHSL z 250 DP(5) KMBC ae 1000 C	Chico, Calif. Kansas City, Mo. St. John's, Nfld.	KFBI ak 5000 Dn KNX ak 50000	Abilene, Kans.
VONF ak 5000	St. John's, Nfld.	KNX ak 50000	Hollywood, Calif. San Jose, C. R.
WRC ae 500 R (1)	Washington, D. C.	1060 1-11	
960 kilocycles		1060 kilocycles	
	Winnings Man	CMK ae 1500 KTHS ae 10000 N	Havana, Cuba
CKY ak 15000 F CMCD ah 180	Winnipeg, Man. Havana, Cuba	VOAC z 40 1065	Hot Springs, Ark. St. John's, Nfld.
CMJL z 50	Camaguey, Cuba Nuevo Laredo, Tams.	WBAL ae 10000 B	Baltimore, Md. Norfolk, Neb.
XEAM z 50 XEAW ak 10000	Nuevo Laredo, Tams. Reynosa, Tams.	WJAG ak 1000 D XEA ak 125	Norfolk, Neb. Guadalajara, Jal.
2522117 AR 10000 ,,	region, raine,	AM 120	Canada ajara, var.

INDEX BY FREQUENCIES Wheeling, W. Va.

1070 kilocycles	Sagua la Grande, C.	WWVA ak 5000 XED ck 500 XEFL z 5000	1C P	Wheeling, W. Va. Guadalajara, Jal. Tijuana, B. C.
KJBS ak 500 Dn WCAZ dk 100 D WDZ ak 100 D	San Francisco, Calif. Carthage, III. Tuscola, III.	1170 kilocy	cles	
WTAM ck 50000 R	Cleveland, Ohio	CMBD z 163 WCAU ae 50000	\mathbf{c}	Havana, Cuba Philadelphia, Pa.
1080 kilocycles	Charlotte, N. C.	1180 kilocy	cles	
WCBD ak 5000 1Dny WMBI ae 5000 1Dn XEMA z 50	Waukegan, III. Chicago, III. Tampico, Tams.	CMJO ak 50 KEX ak 5000 KOB ae 10000	2N 2	Ciego de Avila, Cuba Portland, Ore. Albuquerque, N. M.
1090 kilocycles		VE9EK ak 10 WDGY ak 1000 WINS ae 1000	1185 D (5)	Albuquerque, N. M. Montmagny, Que. Minneapolis, Minn. New York, N. Y.
KMOX ak 50000 C	St. Louis, Mo.	WMAZ ak 1000 XEFA z 500		Macon, Gá. Mexico City, D. F.
1100 kilocycles		1190 kilocy	cles	
CRCV ak 1000 F KGDM ak 1000 D	Vancouver, B. C. Stockton, Calif.	HIJ z 15 WATR ak 100	1195 D	Santo Domingo, D. R. Waterbury, Conn.
KWKH ae 10000 C	Shreve port, La. San Jose, C. R.	WOAI ak 50000 WSAZ ak 1000	N	Waterbury, Conn. San Antonio, Texas. Huntington, W. Va.
TIRC ak 75 WLWL ae 5000 1 WPG ak 5000 1C	Shreveport, La. San Jose, C. R. New York, N. Y. Atlantic City, N. J.		-1	Tunengeon, vai
XEFG ak 250 1105	Mexico City, D. F.	1200 kilocy		Massa Jaw Sash
1110 kilocycles		CHAB ak 100 CKTB ak 100	F F	Moose Jaw, Sask. St. Catharines, Ont.
CMCO z 150	Havana, Cuba Sioux Falls, S. D.	CMCJ ak 500 KADA ak 100 KBTM ak 100	Ď	Havana, Cuba Ada, Okla.
KSOO ak 2500 Dn WRVA ae 5000 N	Sioux Falls, S. D. Richmond, Va.	KBTM ak 100 KFJB ak 100	D (,25)	Jonesboro, Ark. Marshalltown, Iowa
XELO z 10000	Piedras Negras, Co.	KFXD ae 100	(.25) (.25) (.25)	Nampa, Idaho Grand Junction, Col.
		KFXJ ak 100 KGDE ak 100	(.25) (.25)	Fergus Falls, Minn.
1120 kilocycles		KGEK ak 100 KGFJ ae 100	· · · · ·	Sterling, Colo. Los Angeles, Calif.
CHLP z 100 CHSJ ae 100 F	Montreal, Que. St. John, N. B.	KGHI ak 100	(.25)	Little Rock, Ark.
CHSJ ae 100 F CKOC ae 500 F (1)	St. John, N. B. Hamilton, Ont.	KMLB ak 100 KOOS ae 250	D	Monroe, La. Marshfield, Ore.
CKX ak 100 F	Hamilton, Ont. Brandon, Man.	KSUN ck 100	D	Lowell, Ariz.
CMGF ak 100 KFIO ak 100 D	Spokana Wash	KVOS ak 100 KWG ak 100	c	
KFSG ag 1000 a	Los Angeles, Calif.	WABI ak 100		Stockton, Calif. Bangor, Maine
KRKD ae 1000 a (2.5) KRSC ck 100 D	Los Angeles, Calif. Seattle, Wash.	WAIM z 100. WBBZ ak 100		Anderson, S. C. Ponca City, Okla.
WDEL ak 250 (.5)	Wilmington, Del.	WBNO ck 100	1	New Orleans, La.
WISN ak 250 (1) WMFH z 500 DP	Milwaukee, Wis.	WCAT ak 100 WCAX ak 100	D	New Orleans, La. Rapid City, S. D. Burlington, Vt.
WTAW ae 500	Boston, Mass. College Station, Tex.	WCLO ak 100		Janesville, Wis.
4400111 1		WFAM ak 100 WFBE ak 100	8 (.25)	South Bend, Ind. Cincinnati, Ohio
1130 kilocycles		WHBC ak 100	(.25) 2	Canton, Ohio
CMJI ak 45	Ciego de Avila, Cuba	WHBY ak 100 WIBX ak 100	(.25) (.3) C	Canton, Ohio Green Bay, Wis. Utica, N. Y.
CMJI ak 45 KSL ae 50000 C WJJD ak 20000 Dn	Salt Lake City, Utah	WIL ak 100	(.25)	St. Louis, Mo.
WJJD ak 20000 Dn WOV ag 1000 D	Chicago, III. New York, N. Y.	WJBC ak 100 WJBL ae 100	6 6	Bloomington, III. Decatur, III.
_		WJBW ak 100	1 (25)	New Orleans, La.
1140 kilocycles		WKBO ak 100 WKJC ae 100	3 (.25) 3 (.25)	Harrisburg, Pa. Lancaster, Pa.
CMRG z 325	Hayana, Cuba	WLVA ak 100	(.25)	Lynchburg, Va.
KVOO ak 25000 1N	Havana, Cuba Tulsa, Okla.	WMPC ak 100 WRBL ak 100	. (Lapeer, Mich.
WAPI ae 5000 1N	Birmingham, Ala.	WWAE ae 100	8	Columbus, Ga. Hammond, Ind.
1150 1-111		10-AK ak 15 10-BP ak 25	• • • • •	Stratford, Ont. Wingham, Ont.
1150 kilocycles	:	z 100	PD	High Point, N. C.
CMJF z 200 WHAM ae 50000 B	Camaguey, Cuba Rochester, N. Y. Monterrey, N. L.	1010111		
XEH ak 250	Monterrey, N. L.	1210 kilocy	cles	
XEWZ z 100	Mexico City, D. F.	CHNC ak 100	F	New Carlisle, Que. Aklavik, N. W. T.
1160 1ri1 carrol ca		CJCU z 50 CKBI ak 100	F	Aklavik, N. W. T. Prince Albert, Sask.
1160 kilocycles		CKCH ak 100	F	Hull, Que.
WOWO ae 10000 1C	Fort Wayne, Ind.	CKMC ak 50	••••	Cobalt. Ont.

CMHI ak			INDEX BI II	- Q - D.				
	150		Santa Clara, Cuba	WXYZ	ak	1000		Detroit, Mich.
KASA ck	100		Elk City, Okla. Devils Lake, N. D.	XEAI	z	100		Detroit, Mich. Mexico City, D. F.
KDLR ak	100		Devils Lake, N. D.	XEKL	z	500		Leon, Guan.
KFJI ak KFOR ak	100 100	(.25)C	Klamath Falls, Ore.	XELA	\mathbf{z}	50	• • • • •	Saltillo, Coah.
KFPW ak	100		Klamath Falls, Ore. Lincoln, Neb. Fort Smith, Ark.	1050	1 .1		4	
KFVS ae	100	6 (.25)		1250	K1]	ocy	cies	1 1
KFXM ak KGY ak	100	9 (120)	Cape Girardeau, Mo. San Bernardino, Cal. Olympia, Wash. Eureka, Calif. Garden City, Kans. Pasadena, Calif. Ardmore, Okla. Shreyenort. La.		z	162		Havana, Cuba
KGY ak	100		Olympia, Wash.		z Z	150	1233	Santiago, Cuba
KIEM ak	100	 P	Eureka, Calif.		ae	1000		Long Beach, Calif.
KIUL z	100	P	Garden City, Kans.	WCAL	ah	1000	(2.5)	Northfield, Minn.
KPPC ak KVSO z	50 100	9 DP	Pasadena, Calif.	WCAL WDSU	ak	1000	C	New Orleans, La.
KVSO z KWEA z	100		Shreveport, La.	WHBI	ak	1000	a (2.5)	Newark, N. J.
KWTN ak	100	• • • •		WLB	ak	1000	2 (2.5)	Minneapolis, Minn. Newark, N. J.
WALR ak	100		Watertown, S. D. Zanesville, Ohio	WNEW	ae	1000	a (2.5) 2 (5)	Newark, N. J.
WBAX ae	100	i	Wilkes Barre, Pa.	WTCN	ак	1000	2 (3)	Minneapolis, Minn.
WBBL ak	100	S	Richmond, Va.	1260	1_:1		.1	
WBRB ak	100	3	Richmond, Va. Red Bank, N. J.	1260	K1J	locy	cies	
WCBS ak	100	• • • • •	Springfield, III.		ak	100		Edmonton, Alta.
WCOL ak WCRW ae	100 100	4	Chicago III	KGVO :	ak	1000		Edmonton, Alta. Missoula, Mont.
WEBQ ae	100	6 (.25)	Harrishurd III.	KOIL	ak	1000	B (2.5)	Council Bluffs, Iowa
WEDČ ae	100	4	Chicago, Ili.	KPAC	ak	500	D	Port Arthur, Texas Weslaco, Texas Fayetteville, Ark.
WFAS ak	100	3	White Plains, N. Y.	KRGV	ak	500	<u>.</u>	Weslaco, Texas
WGBB ae	100	3	Freeport, N. Y.		ak	1000	D	Fayetteville, Ark.
WGCM ae	100	(.25)	Mississippi City		ak ae	500 1000	Ř	Tucson, Ariz Dayton, Ohio
WGNY ak	100	3	Chester, N. Y.		ae ak	1000	D	Springfield Vt
WHBF ak WHBU ak	100 100	(.25)	springheid, III. Columbus, Ohio Chicago, Ill. Harrisburg, III. Chicago, Ill. White Plains, N. Y. Freeport, N. Y. Mississippi City Chester, N. Y. Rock Island, III.		ae	1000	č	Springfield, Vt. Savannah, Ga.
WIBU ak	100	(.25) (.25) (.25)	Povnette Wie			2000	•	ouverning, Gui
WJBY ak	100	(.23)	Anderson, Ind. Poynette, Wis. Gadsden, Ala.	1270	1-:1	OCX	0100	
WJEJ ah	100	D	Hagerstown, Md. Lansing, Mich. Akron, Ohio		VII		CICS	
WJIM z	100	(.25)	Lansing, Mich.	CMCP	Z	150		Havana, Cuba
WJW ak	100	_	Akron, Ohio	CMHD	dk	250		Caibarien, Cuba
WKOK ak	100 100	I C (25)	Sunbury , Pa. Richmond, Va. Hibbing, Minn.		ak	1000 100	2D	Santo Domingo, D.R.
WMBG ak WMFG z	100	C (.25)	Hibbing Minn		ak ae	1000	$\tilde{\mathbf{C}}$ (2.5)	Seattle Wash
WMFN z	100	P	Clarksdale, Miss.		ae	1000	C (2.5) C	Decorah, Iowa Seattle, Wash. Colorado Spgs., Colo. Decorah, Iowa
WOCI. ak	50		Jamestown, N. Y.		ak	100	$\tilde{\mathbf{2D}}$	Decorah, Iowa
WOMT ae	100		Manito woc, Wis.	WASH	ak	500	a	Grand Rapids, Mich.
WPAX ae	100	Ď	i noma sville. Ga.	WFBR	ae	500	R	Baltimore, Md.
WSBC ae	100	4	Chicago, Ill. Springfield, Tenn. Charlotte, N. C.	WJDX	ae	1000	N (2.5)	Jackson, Miss.
WSIX ak WSOC ak	100 100	N (.25)	Charlette N. C.		ak z	500 500	а	Grand Rapids, Mich. Ensenada, B. C.
WTAX ak	100	14 (.25)	Spring field, Ill.		z ak	1000		Jalapa, Ver.
YEE a	50		Dyranda Dda					bumpu, veri
			Durango, Dgo.				_1	
XEFV ak	100		Juarez, Chih.	1280	kil	OCV	cies	1 1
XEFV ak XETH ak	100 100		Durango, Dgo. Juarez, Chih. Puebla. Pue.	1280				
XETH ak	100 100	:::::	Juarez, Chih. Puebla. Pue.	KFBB	ae	1000	(2.5)	Great Falls, Mont.
XEFV ak XETH ak	100 100	:::::	Juarez, Chih. Puebla, Pue.	KFBB WCAM	ae ae	1000 500	(2.5) 1	Camden, N. J.
1220 ki	100 100 locy	::::: cles		KFBB WCAM WCAP	ae ae ae	1000 500 500	(2.5) 1 1	Camden, N. J.
1220 ki	100 100 locy	cles		WCAM WCAP WDOD	ae ae ae ae	1000 500 500 1000	(2.5) 1 1 C (5)	Camden, N. J.
1220 ki	100 100 locy 50 1000 1000	cles	Camaguey, Cuba Lawrence, Kas.	WCAM WCAP WDOD WIBA WORC	ae ae ae ae ae ak	1000 500 500	(2.5) 1 1	Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis.
1220 ki	100 100 locy 50 1000 1000	cles a S2 2 (5)	Camaguey, Cuba Lawrence, Kas.	KFBB WCAM WCAP WDOD WIBA WORC WRR	ae ae ae ae ak ak	1000 500 500 1000 1000 500 500	(2.5) 1 1 C (5) N C	Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas
1220 ki CMJE z KFKU ae KTWSC ae WCAD ak	100 100 locy 50 1000 1000 1000 500	cles a S2 2 (5) D	Camaguey, Cuba Lawrence, Kas.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ	ae ae ae ae ak ak ak	1000 500 500 1000 1000 500 500	(2.5) 1 1 C (5) N	Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas
1220 ki CMJE z KFKU ae KTW ak KWSC ae WCAD ak	100 100 100 100y 1000 1000 1000 500 1000	cles a S2 2 (5) D	Camaguey, Cuba Lawrence, Kas.	KFBB WCAM WCAP WDOD WIBA WORC WRR	ae ae ae ae ak ak ak	1000 500 500 1000 1000 500 500	(2.5) 1 1 C (5) N C	Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass.
1220 ki CMJE z KFKU ae KTW ak KWSC ae WCAD ak WCAE ae	100 100 100 1000 1000 1000 1000 1000 1	cles 2 52 2 (5) D R C (2.5)	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla.	WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX	ae ae ae ae ak ak ak z	1000 500 500 1000 1000 500 500 500 12	(2.5) 1 1 C (5) N C	Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas
1220 ki CMJE z KFKU ae KTW ak KWSC ae WCAD ak	100 100 100 100y 1000 1000 1000 500 1000	cles a S2 2 (5) D	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla.	WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX	ae ae ae ae ak ak ak z	1000 500 500 1000 1000 500 500 500 12	(2.5) 1 1 C (5) N C	Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas
1220 ki CMJE z KFKU ae KTW ak KWSC ae WCAD ak WOAE ak WDAE ak WDAE ze WREN ak	100 100 100 1000 1000 1000 1000 1000 1	cles a S2 2 (5) D R C (2.5) Ba(5)	Camaguey, Cuba Lawrence, Kas.	WCAM WCAP WDOD WIBA WORG WRE WTNJ XEMX	ae ae ae ae ae ak ak ak z	1000 500 500 1000 1000 500 500 50	(2.5) 1 1 C (5) N C i A	Asbury Park, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas Trenton, N. J. Mexico City, D. F.
1220 ki CMJE z KFKU ae KTW ak KWSC ae WCAD ak WOAE ak WDAE ak WDAE ze WREN ak	100 100 100 1000 1000 1000 1000 1000 1	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, Fla.	WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX	ae ae ae ae ak ak ak z kil ak	1000 500 500 1000 1000 500 500 50	(2.5) 1 1 C (5) N C 1 A cles	Ashury Park, N. J. Ashury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas Trenton, N. J. Mexico City, D. F. Salt Lake City, Utah Blytheville, Ark.
1220 ki. CMJE z KFKU ae KTW ae KWSC ae WCAD ak WCAD ak WDAE ae WREN ak XETF z	100 100 100 1000 1000 1000 1000 1000 1	cles a S2 2 (5) B C (2.5) B Ba(5) cles	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH	ae ae ae ae ae ak ak ak z	1000 500 500 1000 1000 500 500 50	(2.5) 1 1 C (5) N C 1 A cles	Ashury Park, N. J. Ashury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas Trenton, N. J. Mexico City, D. F. Salt Lake City, Utah Blytheville, Ark.
1220 ki CMJE z KFKU ae KWSC ae WCAD ak WCAE ak WDAE ae WREN ak XETF z 1230 ki CJOC ak	100 100 100 1000 1000 1000 1000 1000 1	cles S2 2 (5) 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.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC	ae ae ae ae ak ak z kil ak z ak ae	1000 500 500 1000 1000 500 500 12 OCY 1000 1000 1000	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5)	Ashury Park, N. J. Ashury Park, N. J. Chattanooga, Tenn. Madison, Wis. Worcester, Mass. Dallas, Texas Trenton, N. J. Mexico City, D. F. Salt Lake City, Utah Blytheville, Ark.
1220 ki. CMJE z KFKU ae KWSC ae WCAD ak WCAE ak WDAE ae WREN ak XETF z 1230 ki. CJOC ak CMCB ak	100 100 100 1000 1000 1000 1000 1000 1	cles a S2 2 (5) B C (2.5) B C (2.5) B C (2.5) E C (2.5)	Camaguey, Cuba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Cuba	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS	ae ae ae ak ak ak z kil ak ak ae ak	1000 500 500 1000 1000 500 500 12 OCY 1000 1000 1000 1000 1000	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) N (2.5) C (2.5)	Ashury Park, N. J. Ashury 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.
1220 ki CMJE z KFKU ak KWSC ak WCAE ak WCAE ak WDAE ak WDAE ak ZETF z 1230 ki CJOC ak CMCB ak KGBX ak	100 100 100 50 1000 1000 1000 1000 1000	cles a S2 2 (5) B C (2.5) B C (2.5) B C (2.5) E C (2.5)	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.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ	ae ae ae ak ak ak z kil ak z ae ak	1000 500 500 1000 1000 500 500 12 CCYC 1000 1000 1000 1000	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5)	Ashury Park, N. J. Ashury 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.
1220 ki CMJE z KFKU ak KWSC ae WCAD ak WCAE ak WDAE ak WEN ak XETF z 1230 ki CJOC ak CMCB ak KGBX ak KGBX ak	100 100 100 50 1000 1000 1000 1000 1000	cles S2 (2(5)) D R C(2.5) Ba(5) cles F (.5) N	Camaguey, Guba 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.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS	ae ae ae ak ak ak z kil ak z ae ak	1000 500 500 1000 1000 500 500 12 OCY 1000 1000 1000 1000 1000	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) N (2.5) C (2.5)	Ashury Park, N. J. Ashury 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.
1220 ki CMJE z KFKU ae KWSC ae WCAD ak WCAE ak WDAE ae WREN ak XETF z 1230 ki CJOC ak CMCB ak KGBX ak KGGM ak KGGM ak KYA ae WFBM ae	100 100 100 1000 1000 1000 1000 1000 1	cles s2 2 (5) D R C (2.5) Ba(5) cles F (.5) N C	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ	ae ae ae ae ak ak z kil ak z ak ae ak z ak	1000 500 500 1000 1000 500 500 12 1000 1000 1000 1000 1000 1000 500	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) D (2.5)	Ashury Park, N. J. Ashury 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.
CMJE Z KFKU ae KTW ak KWSC ae WCAD ak WDAE ae WREN ak XETF Z 1230 ki CJOC ak CGCB ak KGBX ak KGBX ak KYA ae WFBM ae WNAC ak	100 100 100 50 1000 1000 1000 1000 1000	cles S2 (2(5)) D R C(2.5) Ba(5) cles F (.5) N	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ	ae ae ae ae ak ak z kil ak z ak ae ak z ak	1000 500 500 1000 1000 500 500 12 1000 1000 1000 1000 1000 1000 500	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) D (2.5)	Ashury Park, N. J. Ashury 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.
1220 ki CMJE z KFKU ak KWSC ae WCAD ak WCAE ak WDAE ak WDAE ak WEN ak CJOC ak CMCB ak CMCB ak KGBX ak KGBX ak KGGM ak KGGM ak KGGM ak KGBX ak	100 100 1000 1000 1000 1000 1000 1000	cles S2 2 (5) D R C (2.5) Ba(5) cles F (.5) C C (2.5)	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300	ae ae ae ae ae aak ak az az az az ak kil	1000 500 500 1000 1000 500 500 12 OCY 1000 1000 1000 1000 1000 1000 500	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) C (2.5) D C (2.5)	Salt Lake City, Utah Blytheville, Ark. Houston, Texas Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.
1220 ki CMJE z KFKU ak KWSC ae WCAD ak WCAE ak WDAE ak WDAE ak WEN ak CJOC ak CMCB ak CMCB ak KGBX ak KGBX ak KGGM ak KGGM ak KGGM ak KGBX ak	100 100 1000 1000 1000 1000 1000 1000	cles S2 2 (5) D R C (2.5) Ba(5) cles F (.5) C C (2.5)	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNBZ WNEL 1300 CMKJ HIZ	ae aae aae aak aaz az az az az k il az az az k kil zz	1000 500 1000 1000 500 500 500 12 1000 1000	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) C (2.5) D C (2.5)	Ashury Park, N. J. Ashury 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.
1220 ki CMJE z KFKU ae KTW ak KWSC ae WCAD ak WOAE ae WREN ak XETF z 1230 ki CJOC ak CMCB ak KGBX ak KGGM ak	100 100 100 1000 1000 1000 1000 1000 1	cles C(2.5) R(2.5) R(2.5) Ba(5) Cles F C(5) C(2.5) C(2.5) C(2.5) C(3.5) C(3.5) C(4.5) C(5.5) C(5.5) C(5.5) C(5.5) C(5.5) C(5.5) C(5.5) C(5.5)	Camaguey, Guba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Guba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMKJ HIZ KALE	ae aae aae aak ak kil ak aaa aaa kil zaaak zak	1000 500 1000 1000 500 500 500 12 CCY 1000 1	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) C (2.5) D C (2.5)	Salt Lake City, Utah Blytheville, Ark. Houston, Texas Superior, Wis. Path 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. Portland, Ore.
1220 ki CMJE z KFKU ak KWSC ae WCAD ak WCAE ak WDAE ak WDAE ak WEN ak ZETF z 1230 ki CJOC ak CMCB ak KGBX ak KGGM ak KGGW ak KGBX ak KGGW ak KGGW ak KGBX ak KGGW ak KGBX ak KGGW ak KGAE ak	100 100 1000 1000 1000 1000 1000 1100 1000 1100 1000 1100 100	cles a S2 2 (5) D R C (2.5) Ba(5) cles F N C C (2.5) C C C C C C C C C C C C C C C C C C C	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMKJ HIZ KALE KFAC	ae e aae aak ka	1000 500 1000 1000 500 500 500 12 1000 1000 1000 1000 1000 500 1000 1	(2.5) 1 1 C (5) N C 1 A cles N D C (5) N (2.5) C (2.5) C (2.5) C (2.5)	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. Portland, Ore.
CMJE z KFKU ae KTW ak KWSC ae WCAD ak WCAE ak WDAE ae WREN ak XETF z 1230 ki. CJOC ak CMCB ak KGGX ae WFBM ae WNAC ak XEFJ ak 1240 ki. CJCJCB ak CMCB ak CGCM ak CCM	100 1000 1000 1000 1000 1000 1000 1000	cles s2 2 (5) D R G (2.5) Ba(5) cles F (.5) N C G (2.5) N C C C C C C C C C C C C C C C C C C	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WJAS WNBZ WNBZ WNEZ WNEZ HIZ KALE KFAC KFH	aeeeaaakk il azaaak kil zzaakk	1000 500 1000 1000 500 500 12 1000	(2.5) 1 1 C (5) N C 11 1 C (5) N C 11 1 C (5) N C (2.5) C (2.5) C (2.5)	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. Portland, Ore.
1220 ki CMJE z KFKW ak KWSC ae WCAD ak WCAE ak WCAE ak WCAE ak WEAE ac WREN ak XETF z 1230 ki CJOC ak CMCB ak CMCB ak CMCB ak KGBX ac WFBM	100 100 100 1000 1000 1000 1000 1000 1	cles a S2 2 (5) D R C (2.5) Ba(5) cles F N C C (2.5) N C C (2.5) N C C C (2.5) N C C C (2.5) N C C C C C C C C C C C C C C C C C C	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMKJ HIZ KALE KFAR KFJR	aeeeaaaakk il ka	1000 500 1000 1000 500 500 500 12 1000	(2.5) 1 1 C (5) N C Cles N D C (5) N (2.5) C (2.5) C (2.5) C (2.5) C (2.5)	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. Portland, Ore.
CMJE z KFKU ae KTW ak KWSC ae WCAD ak WDAE ae WREN ak XETF z 1230 ki. CJOC ak CMCB ak KGBX ak KGGM ak KYAM ae WNAC ak XEFJ ak 1240 ki. CJCB az KGCU ak CMHB z KGCU ak KLPM ak	100 1000 1000 1000 1000 1000 1000 1000	cles s2 2 (5) D R C (2.5) Ba(5) cles F (.5) C C (2.5) cles F 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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNBZ WNBZ HIZ KALE KFAC KFH KFJR KFJR WBBR	aaeeeekk azaaekkk azaaekk Xzzaakk zzaakka il zzaakka aae	1000 500 1000 1000 500 500 12 1000 1000	(2.5) 1 1 C (5) N C 1:A cles N D C (5) N (2.5) C (2.5) C (2.5) cles 3C 3C 31	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. Portland, Ore.
CMJE z KFKU ae KTW ak KWSC ae WCAD ak WDAE ae WREN ak XETF z 1230 ki CJOC ak KGGX ak KGGX ak KGGX ak KGGX ak KGGX ak KFA ae WNAC ak XEFJ ak 1240 ki CJCCB ak CMB ak KGGCU ak KLPM ak KGCU ak KLPM ak KTAT ak	100 100 100 1000 1000 1000 1000 1000 1	cles a S2 2 (5) D R C (2.5) Ba(5) cles F N C C (2.5) N C C (2.5) N C C C C C C C C C C C C C C C C C C	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. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRN TO THE TENT OF THE T	aaeeeekk k azaaaaza k zzaakkaeek	1000 500 1000 1000 500 500 500 12 1000	(2.5) 1 1 C (5) N C Cles N D C (5) N (2.5) C (2.5) C (2.5) C (2.5) C (2.5)	Ashury Park, N. J. Ashury 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. Portland, Ore. Los Angeles, Calif. Wichita, Kans. Portland, Ore. Brooklyn, N. Y. New York, N. Y. New York, N. Y.
CMJE z KFKU ae KTW ak KWSC ae WCAD ak WCAE ak WDAE ae WREN ak XETF z 1230 ki CJOC ak CMCB ak KGGX ak KGGX ak KGGX ak KGGX ak KFA ae WNAC ak XEFJ ak 1240 ki CJCB z KCMB ak CMB ak KGGM ak KFA ae WNAC ak XEFJ ak 1240 ki CJCB z KCGCU ak KLPM ak KGCU ak KLPM ak KTAT ak	100 100 100 1000 1000 1000 1000 1000 1	cles s2 2(5) D R G (2.5) Ba(5) cles F (.5) N C G (2.5) S cles F 1 C	Camaguey, Guba Lawrence, Kas. Seattle, Wash. Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kas. Veracruz, Ver. Lethbridge, Alta. Havana, Guba Springfield, Mo. Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. Monterrey, N. L.	KFBB WCAM WCAP WDOD WIBA WORC WRR WTNJ XEMX 1290 KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMKJ HIZ KAALE KFAC KFH KFAC KFH KFAC KFH WBBR WEVD WFAB	aaeeeekk azaaekkk azaaekk Xzzaakk zzaakka il zzaakka aae	1000 5000 10000 10000 5000 5000 12 COCY 10000 10000 10000 5000 10000 5000 100000 10000 100000 100000 100000 10000 10000 10000 10000 1	(2.5) 1 1 C (5) N C 1 A Cles N D C (5) N (2.5) C (2.5) C (2.5) C (2.5) C (2.5)	Salt Lake City, Utah Blytheville, Ark. Houston, Texas Superior, Wis. Path 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. Portland, Ore.

				INDEA BI F.	REQUE	INCI	ES		
WHAZ WIOD		500 1000	1 N	Troy, N. Y. Miami, Fla.	WDRC WSAI	ae ak	1000 1000	C (2.5) R (2.5)	Hartford, Conn. Cincinnati, Ohio
				Miami, Fla.	WTAQ	ae	1000	1 (2.5)	Eau Claire, Wis.
1310	kil	осус	cles		1240			•	
CHCK	ak	50		Charlottetown, P.E.I.	1340	Ki.	locy	cles	
CJKL CJLS	Z Z	100 100	• • • • •	Kirkland Lake, Ont Yarmouth, N. S.	KFPY	ak	1000	Č	Spokane, Wash. Huron, S. D. Dodge City, Kans. Pensacola, Fla. Manchester, N. H.
CKCV	ak	50	<u></u>	Quebec, Que. Jerome, Ariz.	KGDY KGNO	ak ak	250 250	D	Dodge City, Kans
KCRJ KFBK	ak ak	100 100	D	Jerome, Ariz.	KGNO WCOA	ak	500	Ċ	Pensacola, Fla.
KFPL	dkh	100	C (.25)	Sacramento, Calif. Dublin, Texas	WFEA WSPD	ae ae	500 1000	C (1) C (2.5)	Manchester, N. H. Toledo, Ohio
KFXR KFYO	ak ak	100 100	(.25) (.25) (.25)	Oklahoma City, Ok.	XFD	z	250		Orizaba, Ver.
KGCX KGEZ	ak	100	(.25)	Wolf Point, Mont.					
KGEZ KGFW	aj ak	100 100		Kalispell, Mont. Kearney, Neb.	1350	ki]	locyc	eles	4
KIT	ak	100 100	(.25)	Wolf Point, Mont. Kalispell, Mont. Kearney, Neb. Yakima, Wash. Santa Fe, N. Mex. Medford, Ore. Shreveport La.	CMCA	z	435		Havana, Cuba Boise, Idaho
KIUJ KMED	z ck	100	(.25)	Medford, Ore.	KIDO KWK	ak ak	1000 1000	(2.5) B (5)	Boise, Idaho
KRMD	ak z	100 100	P	Shreveport, La. Rochester, Minn.	WAWZ	ae	500	1 (1)	St. Louis, Mo. Zarephath, N. J.
KROC KTSM	ak	100		El Paso, Texas	WBNX	ae	250	1	Zarephath, N. J. New York, N. Y.
KXRO WAML	ak	100 100		Aberdeen, Wash. Laurel, Miss.	1260	1-:1		.1	
WBEO	ae	100		Marquette, Mich.	1900	K1	locyc	cies	
WBOW	ak	100 100	• • • •	Torres Houses Ind	CMJH	ak ak	50 1000	• • • • •	Ciego de Avila, Cuba
WBRE WCLS	ae	100		Joliet, Ill.	KGER KGIR WGSC	ak	1000	N (2.5)	Long Beach, Calif. Butte, Mont.
WCMI WDAH	z ok	100 100	DP S	Ashland, Ky.	WCSC WFBL	ae	500 1000	(1) C (5)	Charleston, S. C. Syracuse, N. Y.
WEBR	ae	100	(.25)	Wilkes Barre, Pa. Joliet, Ill. Ashland, Ky. El Paso, Texas Buffalo, N. Y. Royal Oak, Mich.	WGES	ak ae	500	1	Chicago, III.
WEXL WFBG	ak ae	50 100	3	Royal Oak, Mich.	WOBC WSBT	ak ak	1000 500	D 1	Vicksburg, Miss.
WFDF	am	100		Flint, Mich.	WSDI	ик	500		South Bend, Ind.
WGH WHAT	ae ak	100 100	(.25) 4	Newport News, Va. Philadelphia, Pa.	1370	ki:	locyc	eles	
WJAC	ae	100	3	Johnstown, Pa.	CKCW	z	100	F	Moncton, N. B.
WLBC WLNH	ak	50 100	6 (.1) D	Muncie, Ind.	CMGE	Z	30	ĎP	Cardenas, Cuba
WMBO	ak	100		Laconia, N. H. Auburn, N. Y. Plattsburg, N. Y.	KAST KCRC	z ak	100 100	DP 2 (.25) P	Astoria, Ore. Enid, Okla.
WMFF WNBH	Z 90	100 100	D (.25) C	Plattsburg, N. Y.	KELD	z	100		El Dorado, Ark.
WOI.	94	100	(.25) A	New Bedford, Mass. Washington, D. C.	KERN KFGQ	ak ak	100 100		Bakersfield, Calif. Boone, Iowa
WRAW WROL	ak ak	100 100		Reading, Pa. Knoxville, Tenn. Grove City, Pa. Birmingham, Ala.	KFJM KFJZ	ak	100	(.25)	Boone, Iowa Grand Forks, N. D. Fort Worth, Texas Longview, Texas Tucson, Ariz. Oklohoma City, Ok
WSAJ	ae	100		Grove City, Pa.	KFRO	ae z	100 100	Ď	Longview, Texas
WSGN WSJS	ak ak	100 100	(.25) C		KGAR KGFG	ae	100 100	(.25) 2	Tucson, Ariz.
WTAL	Z	100	P	Tallahassaa Ela	KGFL	bk ak	100	4	Roswell, N. M.
WTEL WTJS	ah ak	100 100	4 (.25)	Januariseet, Fla. Philadelphia, Pa. Jackson, Tenn. Elkhart, Ind. Cazaca, Camp. Tijuana, B. C. Mexico City, D. F. Merida, Yuc	KGKL KICA	ak ak	100 100	(.25) 4	San Angelo, Texas
WTRC XEAJ	ak z	50 15	6 (.1)	Elkhart, Ind.	KLUF	Z	100	(.25) 5	Galveston, Texas San Antonio, Texas San Antonio, Texas
XEC	z	50		Tijuana, B. C.	KMAC KONO	ak ak	100 100	5	San Antonio, Texas
XECW XEFC	z ak	10 100	• • • • •	Mexico City, D. F.	KRE	ak	100	(.25)	
XEFW XELM	ak	250		Tampico, Tams.	KRKO KSLM	ak z	50 100	1	Everett, Wash.
XELM XETB	z z	15 125		Mineral del Monte Torreon, Coah.	KUJ	ak	100		Walla Walla, Wash.
XEX	ak	125		Monterrey, N. L. Lafayette, La.	KVL KWKC	ak z	100 100	1	Everett, Wash. Salem, Ore. Walla Walla, Wash. Seattle, Wash. Kansas City, Mo. Sheridan, Wyo. Albany, N. Y. Dothen, Ale.
• • • • •	\mathbf{z}	100	P	Lafayette, La.	KWKC KWYO	ak	100		Sheridan, Wyo.
1320	ki1	OCV	100		WABY WAGF	ak ak	100 100	A (.25)	Dothan, Ala.
				TI	WBTM	ak	100	(.25)	Danville, Va.
CMCK CMOX	z z	100 250	P 	Havana, Cuba Havana, Cuba Pueblo, Colo.	WCBM WDAS	ae ae	100 100	(.25) (.25) (.25) (.25) A (.25) C	Baltimore, Md. Philadelphia, Pa.
KGHF		500	C	Pueblo, Colo.	WGL	ak	100	Č ,	Philadelphia, Pa. Fort Wayne, Ind.
KGMB KID	a e	250 250	(.5)	Honolulu, T. H. Idaho Falls, Idaho	WHBO WHDF	ak ak	100 100		Memphis, Tenn. Calumet, Mich. Jackson, Mich.
KID KRNT	ak	250 500	(.5) C (1) C (2.5)	Des Moines, Iowa	WIBM	ak	100	(.25) (.25)	Jackson, Mich.
WADC WORK	ae ak	1000 1000		Akron, Ohio York, Pa.	WJTL WLLH	ae ak	100 100	(.25)	Atlanta, Ga. Lowell, Mass.
WSMB		1000	N	New Orleans, La.	WMBR	ak	100	C	Jacksonville, Fla.
1330	kil	OCV	les		WMFD WMFO	z	100 100	DP DP	Decatur. Ala.
		250	100	Cenaco Cuto	WOC WPAY	z	100	C (.25)	Davenport, Iowa Portsmouth, Ohio
KGB	z ag	250 1000	C (2.5)	Cruces, Cuba San Diego, Calif.	WPA Y WPFB	ak ak	100 100		Hattiesburg, Miss.
KMO KSCJ	ak	250 1000		San Diego, Calif. Tacoma, Wash.	WQDM	ae	100	D 250	Hattiesburg, Miss. St. Albans, Vt.
LJCJ	aj	1000	10 (2.5)	Sioux City, Iowa	WRAK	ак	100	(.25)	Williamsport, Pa.

			INDEX DI II	w QUL				
WRDO ae	100		Audusta Maine	WEHS	ak	100	а	Cicero III
WRJN ak WSVS ak	100		Augusta, Maine Racine, Wis. Buffalo, N. Y. Mexico City, D. F. Morelia, Mch. San Luis Potosi, SLP	WELL	ak	100	•	Cicero, Ill. Battle Creek, Mich.
	50	D	Buffalo, N. Y.	WGPC	ak	100		Albany, Ga.
XEFZ ae	100		Mexico City, D. F.	WHDL WHFC	ak	100	D	Albany, Ga. Olean, N. Y.
XEI ak	125		Morelia, Mch.	WHFC	ae	100	а	(Acero III
XEZZ z	100	• • • • •	San Luis Potosi, SLP	WILM	aj	100	2	Wilmington, Del. Baton Rouge, La.
1000 1 1				WJBO	z,	100		Baton Rouge, La.
1380 ki	locv	cles		WJMS	ak	100		Honwood, Mich.
				WKBI	ak ak	100 100	a (.25)	Cicero, III.
CMBX ak	171		Havana, Cuba	WLBF	ak	100		Lexington, Ky. Kansas City, Kans.
CMJC z	150	c	Camaguey, Cuba	WLEU	z	100	(.25)	Frie Do
KOH ak KOV ak	500 500	2	Camaguey, Cuba Reno, Nev. Pittsburgh, Pa.	WMAS	ak	100	C (25)	Erie, Pa. Springfield, Mass.
WALA ae	500	C (1)	Mobile Ale	WMAS WMBC	ae	100	G (.25) (.25) (.25) P	Detroit Mich
WKBH ae	1000		Mobile, Ala. LaCrosse Wis.	WMRH	ak	100	(.25)	Detroit, Mich. Joplin, Mo.
WMFE z	250	PD	New Britain, Conn.	WMFJ	z	100	P ,	Daytona Beach, Fla. Muscle Shoals, Ala.
WSMK ak	200	Č	Dayton, Ohio	WNRA	ak	100	n	Muscle Shoals, Ala.
			,,	WMFJ WNRA WPAD WPRP	ak	100	(.25) P (.25)	Paducah, Ky. Ponce, P. R.
1390 ki	locar	0100		WPRP	\mathbf{z}	100	P (.25)	Ponce, P. R.
TO JO KI	tocy	CIES		WWC	Z	1000	r	Spartanburg, S. C. Guanjuato, Gto. Monterrey, N. L.
CJRC ck	100	F	Winnipeg, Man.	XEAZ	Z	7 100		Guanjuato, Gto.
HIH ak	15	1395 Sa	Winnipeg, Man. n Ped. de Macoris, DR	XEFB	ak z	100		Monterrey, N. L.
KLRA ae	1000	C (2.5)	Little Rock, Ark.		Z	100	P	Parkersburg, W. Va.
KOY ae	500	(1)	Phoenix, Ariz. Cleveland, Ohio			_	_	
WHK ae	1000	C (2.5)	Cleveland, Ohio	1430	ki	locy	les	
						1003		
1400 ki	10027	0100		CMJP	ak	75	(5) D	Moron, Cuba
TAOO KI	locy	C162	L	KECA KGNF	ak	75 1000	(5)	Los Angeles, Calif.
CMGC z	100		Matanzas, Cuba	KGNF	ak	1000	Ď	North Platte, Neb.
KLO ae	500	C	Ogden, Utah	KSO	ak	250	\mathbf{B} $(.5)$	Los Angeles, Calif. North Platte, Neb. Des Moines, Iowa
KTUL ak	500	C(1)	Ogden, Utah Tulsa, Okla.	WBNS	ae	500	C (1)	Columbus, Onio
TGX ak	150	<u>.</u>	Guatemala City, Gt.	WHEC WHP	ae	500	\mathbf{C} (1)	Rochester, N. Y.
WARD ak	500	2	Guatemala City, Gt. Brooklyn, N. Y. Brooklyn, N. Y.	WHP	ak	500	$\mathbf{C}(\mathbf{i})$	Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.
WBBC ae	500	2 (1) R (1)	Brooklyn, N. Y.	WNBR	ae	500	C(1)	Memphis, Tenn.
WIRE ak	500	R (1)	Indianapolis, Ind. Brooklyn, N. Y.	woko	ae	500	B (.5) C (1) C (1) C (1) C (1)	Albany, N. Y.
WLTH ak	500	2 2	Brooklyn, N. Y.			_		
WVFW ak	500	2	Brooklyn, N. Y.	1440	ki	locy	cles	
14101.		. 1		1110	***	ıcc,	100	
1410 ki	locvo	cies	1 1	KDFN	ak	F00		Cooper Wro
						500		
		-100	V	KLS	ae	500 250	D	Casper, Wyo. Oakland, Calif.
CKFC ak	50	5	Vancouver, B. C.	KLS KXYZ	ae ak	250 1000	D	Oakland, Calif. Houston, Texas
CKFC ak	50 100	5 5 F	Vancouver R C	KLS KXYZ TIFS	ae ak z	250 1000		Oakland, Calif. Houston, Texas Cartago, C. R.
CKFC ak CKMO ag CMCR z	50 100 122	5 5 F	Vancouver R C	KLS KXYZ TIFS WBIG	ae ak z	250 1000 7.5 500	(1441) C (1)	Oakland, Calif. Houston, Texas Cartago, C. R.
CKFC ak CKMO ag CMCR z KGRS ae	50 100 122 1000	5 5F 1 (2.5)	Vancouver R C	KLS KXYZ TIFS WBIG	ae ak z	250 1000 7.5 500 500	(1441) C (1)	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa.
CKFC ak CKMO ag CMCR z KGRS ae	50 100 122 1000 500	5 5F 1 (2.5) C	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass.	KLS KXYZ TIFS WBIG	ae ak z	250 1000 7.5 500 500 500	(1441) C (1) a C (1)	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae	50 100 122 1000	5 5F 1 (2.5) C	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas	KLS KXYZ TIFS WBIG WCBA WMBD WSAN	ae ak z ae aj ae aj	250 1000 7.5 500 500 500	(1441) C (1)	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae	50 100 122 1000 500 500 1000	5 5F 1 (2.5) C	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas	KLS KXYZ TIFS WBIG	ae ak z	250 1000 7.5 500 500 500	(1441) C (1) a C (1)	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae	50 100 122 1000 500 500 1000 500 250	5 5F 1 (2.5) C	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI	ae ak z ae aj ae aj	250 1000 7.5 500 500 500 250	(1441) C (1) a C (1) a	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHIS ak	50 100 122 1000 500 500 1000 500 250 250	5 5F 1 (2.5) C	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI	ae ak z ae aj ae aj	250 1000 7.5 500 500 500 250	(1441) C (1) a C (1) a	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHIS ak WRBX ae WROK ak	50 100 122 1000 500 500 1000 500 250 250 500	5 5F 1 (2.5) C 1 (2.5) 4 2(.5) 2 (.5) 4	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill.	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI	ae ak z ae aj ae aj ae	250 1000 7.5 500 500 500 250	(1441) C (1) a C (1) a 	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHIS ak	50 100 122 1000 500 500 1000 500 250 250	5 5F 1 (2.5) C	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT	ae ak z ae aj ae aj ae	250 1000 7.5 500 500 500 250 10cyc	(1441) C (1) a C (1) a 	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih. Victoria, B. C.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHIS ak WRBX ae WROK ak	50 100 122 1000 500 500 1000 500 250 250 500	5 5F 1 (2.5) C 1 (2.5) 4 2(.5) 2 (.5) 4	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill.	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS	ae ak z ae aj ae aj ae ki ae	250 1000 7.5 500 500 500 250 10Cyc	(1441) C (1) C (1) C (1) a 	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih. Victoria, B. C. Summerside, P.E.L.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ak WHBS ak WRBX ae WROK ak	50 100 122 1000 500 500 1000 500 250 250 500	5 5F 1 (2.5) C 1 (2.5) 4 2(.5) 2 (.5) 4 C (1)	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill.	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS	ae ak z ae aj ae aj ae ki ae ae ck	250 1000 7.5 500 500 500 250 10Cy(75 50 1000	(1441) C (1) a C (1) a cles	Oakland, Calif. Houston, Texas Cartago, C. R. Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih. Victoria, B. C. Summerside, P.E.L.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHIS ak WRBX ae WROK ak	50 100 122 1000 500 500 1000 500 250 250 500	5 5F 	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala.	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS WGAR	ae ak z ae aj ae aj ae ki ae ck ak	250 1000 7.5 500 500 500 250 10CY 75 500 1000 500	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHIS ak WRBX ak WSFA ak	50 100 122 1000 500 500 1000 500 250 250 500	5 5F 	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala.	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM	ae aj ae aj ae ck ak ae	250 1000 7.5 500 500 500 250 1000 500 250	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHIS ak WRBX ae WROK ak WSFA ak	50 100 122 1000 500 500 1000 250 250 500 500	5 5F 	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala.	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR	ae aj ae aj ae ck ae ae ae	250 1000 7.5 500 500 500 250 10CY 75 50 1000 500 250 250	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio Jersey City, N. J. Fali River, Mass.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHBL ae WHS ae WROK ak WSFA ak CKGB ak CKNC ak	50 100 122 1000 500 500 1000 250 250 500 500 100 100 100 30	5 5F 1 (2.5) C 1 (2.5) 2 (.5) 2 (.5) 4 C (1) cles	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon. Cuba	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM	ae aj ae aj ae ck ak ae	250 1000 7.5 500 500 500 250 1000 500 250	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHABL ae WHIS ak WRBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CMGI z KABC ak	50 100 122 1000 500 500 1000 250 250 500 500 100 100 100 30 100	5 5F 1 (2.5) C 1 (2.5) 4 (2.5) 2 (.5) 4 C (1) ccles 	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon. Cuba	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI	ae ak zae aj ae ae ae ae ae ae ae ae ae ae ae ae ae	250 1000 7.5 500 500 500 250 250 1000 500 250 250 250 250	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio Jersey City, N. J. Fali River, Mass.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHIS ak WRBX ak WSFA ak 1420 ki CKGB ak CKNC ak CKGC az KABC ak KABR az	50 100 122 1000 500 1000 250 250 500 500 1000 10	5F 1 (2.5) C 1 (2.5) 1 (2.5) 2 (.5) 2 (.5) 4 C (1) Cles	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon. Cuba	KLS KXYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI	ae ak zae aj ae ae ae ae ae ae ae ae ae ae ae ae ae	250 1000 7.5 500 500 500 250 250 1000 500 250 250 250 250	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio Jersey City, N. J. Fali River, Mass.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHIS ak WRBX ak WSFA ak 1420 ki CKGB ak CKNC ak CKGC az KABC ak KABR az	100 100 500 1000 500 1000 250 250 500 500 100 100 30 100 100	5 5F 1 (2.5) C 1 (2.5) 4 (2.5) 2 (.5) 4 C (1) ccles 	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore.	KLS KXYZ TIFS WBIG WCBA WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI	ae ak z ae ai ae ak ae ak ki	250 1000 7.5 500 500 500 250 10CY 75 50 1000 500 250 250	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHBS ak WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKNC ak CKNC ak KABR z KBPS aj KCMC ak	100 100 500 1000 500 1000 500 500 500 50	5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore.	KLS KXYYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS WGAR WHOM WSAR WTFI 1460 CMKF	ae ak z a aj ae ki ae ak ki z	250 1000 7.5 500 500 500 500 250 1000 500 250 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 10	(1441) C (1) a C (1) a cles F N B (1) cles	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHBL ae WRBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGB ak CKNC ak KABR z KABR ak	100 100 500 500 500 1000 250 250 250 500 500 100 100 100 100 100 100	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore.	KLS KXYYZ TIFS WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS WGAR WHOM WSAR WTFI 1460 CMKF	ae ak z a aj ae ki ae ak ki z	250 1000 7.5 500 500 500 250 1000 250 1000 1000 100	(1441) C (1) a C (1) a cles F N B (1)	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHBL ae WRBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGB ak CKNC ak KABR z KABR ak	100 100 500 1000 500 1000 500 250 250 500 500 100 100 100 100 100 100	5 5F 1 (2.5) 1 (2.5) 1 (2.5) 2 (.5) 4 C (1) Cles D 4	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla.	KLS KXYZ TIFS WBGA WCBA WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF	ae ak z a aj ae ki ae ak ki z	250 1000 7.5 500 500 500 500 250 1000 500 250 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 1000 500 10	(1441) C (1) a C (1) a cles F N B (1) cles	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHBL ae WRBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGB ak CKNC ak KABR z KABR ak	100 100 100 100 100 100 100 100 100 100	5 5F 1 (2.5) 1 (2.5) 1 (2.5) 2 (.5) 4 C (1) Cles D 4	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal.	KLS KXYYZ TIFS WBIG WCBA WSAN WSAN XEFI 1450 CFGT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	ae ki ae ackae ak ki zaak	1000 7.5 500 500 500 500 500 500 500 1000 250 1000 100	(1441) (C (1) a (C (1) a cles F N B (1) cles Cles	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ak WBCM ae WDAG ae WHBL ae WHBS ak WRBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGC ak KABR z KABR z KABR ak KGFF ak KGFF ak KGGC ak	100 100 500 500 1000 500 250 500 500 250 500 100 100 100 100 100 100 100 100	5 5 1 (2.5) C 1 (2.5) 1 (2.5) 2 (2.5) 4 C (1) Cles D 4	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal.	KLS KXYYZ TIFS WBIG WCBA WSAN WSAN XEFI 1450 CFGT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	ae ki ae ackae ak ki zaak	1000 7.5 500 500 500 500 500 500 500 1000 250 1000 100	(1441) (C (1) a (C (1) a cles F N B (1) cles Cles	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn.
CKFC ak CKMO ag CMCR z KGRS ae WAAB ae WHBL ae WHBL ae WHBS ak WROK ak WSFA 1420 ki CKGC ak CKGC ak CKGC ak CKGC ak CKABR z KABR z KBPS aj KCMC ak KFIZ ak KGFC ak KGGG ak	100 100 122 1000 500 1000 250 250 500 100 100 100 100 100 100 100 100	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas. Nev.	KLS KXYZ WHIG WCBA WCBA WSAN WSAN CFGI CHGS KTBS WGAR WHOM WSAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	ae ak zae al ae ki ae ak ki zae ak ki	1000 7.5 500 500 500 500 500 500 250 1000 500 250 250 250 10000 10000	(1441) C (1) a C (1) a cles N B (1) cles N (25) C (25)	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C.
CKFC ak CKMCR Z KGRS ae WAAB ak WBCM ae WHBL ae WHBL ae WHBS ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGC ak CKGC ak KABR Z KABC ak KABR Z KABC ak KABR ae KGMGI z KABC ak KABR ae KGMGI z KABC ak KABR z KGFF ak KGGG ak KGIW ak KGIW ak KGIW ak	50 100 122 1000 500 1000 2500 500 2500 500 100 100 100 100 100 100 100 100	5 5F 1 (2.5) C 1 (2.5) 2 (.5) 2 (.5) 4 C (1) cles D 4 P (.25)	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas. Nev.	KLS KXYYZ TIFS WBIG WCBA WSAN WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	aek zaejaejae ki aek ki zaek ki ak	1000 7.5 500 500 500 500 500 500 500 1000 250 1000 100	(1441) C (1) a C (1) a cles N B (1) cles N (25) C (25)	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C.
CKFC ak CKMCn ag CMCR z KGRS ae WAAB ak WBCM ae WHBL ae WHBX ae WROK ak WROK ak WSFA CKGB ak CKNC ak CKNC ak KABC ak KABC ak KABC ak KABC ak KABC ak KABC ak KAGC ak	100 100 500 1000 500 1000 2500 500 2500 500 100 100 100 100 100 100 100 100	5 5F 1 (2.5) 1 (2.5) 1 (2.5) 2 (.5) 4 C (1) Cles D 4 P (.25) 1	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Rosnoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos. Texas	KLS KXYZ WHIG WCBA WCBA WSAN WSAN CFGI CHGS KTBS WGAR WHOM WSAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	aek zaejaejae ki aek ki zaek ki ak	1000 7.5 500 500 500 500 500 500 250 1000 500 250 250 250 10000 10000	(1441) C (1) a C (1) a cles N B (1) cles N (25) C (25)	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn.
CKFC ak CKMO ag CMCR Z KGRS ae WAAB ak WBCM ae WHBL ae WHBL ae WHBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGC ak CKGC ak KABR Z KABC ak KABR Z KABC ak KABR Z KABC ak KABR Z KGGC ak KGFF ak KGFF ak KGIX ak KGIX ak KIUN Z KORE ae KRLC z	100 100 500 500 1000 500 250 500 500 500 100 100 100 100 100 100 1	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston. Idaho	KLS KXYZ TIFS WBIG WCBA WCBA WSAN WSAN WSAN WHOM WSAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	aek zae ja je ja je	1000 7.5 500 500 500 500 500 500 1000 500 5	(1441) (C (1) a (C (1) a cles N B (1) cles Cles N (255) C C C	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C.
CKFC ak CKMO ag CMCR z KGRS ae WBCM ae WHABL ae WHBS ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKNC ak KABR z KABR z KBPS ai KCMC ak KABR ak KAGIV ak KGIV ak	100 100 500 500 500 500 250 500 500 500 100 100 100 100 100 100 1	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston. Idaho	KLS KXYZ TIFS WBIG WCBA WCBA WSAN WSAN WSAN WHOM WSAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV	aek zae ja je ja je	1000 7.5 500 500 500 500 500 500 1000 500 5	(1441) (C (1) a (C (1) a cles N B (1) cles Cles N (255) C C C	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C.
CKFC ak CKMOR ag CMCRZ KGRS ae WAAB ae WDAG ae WHBL ae WHBL ae WHBL ae WRBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKNC ak CKNC ak KABC ak KABR z KABC ak KABR ag KCMG ak KGFF ak KGFZ ak KGFF ak KGIX ak	100 100 500 1000 500 1000 250 500 500 100 100 100 100 100 100 100 1	5 5 F (2.5) G (2.5) 4 (2.5) 4 C (1) C D 4 D 4 D 1 P (.25) 1 P D	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans.	KLS KXYZ TIFS WBIG WCBA WCBA WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV 1470 KGA WLAC 1480	ae ki ae ckake ae ki zaek ki	1000 1000 7.5 500 500 500 500 500 250 1000 1	(1441) C (1) a C (1) a C (1) a cles B (1) cles Cles Cles Cles Cles Cles	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C. Spokane, Wash. Nashville, Tenn.
CKFC ak CKMO ag CMCR z KGRS ae WBCM ae WDAG ae WHBL ae WHBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKNC ak KABR z KABR z KABR ak KABR z KABR ak KAGW ak KAGW ak KGIX ak KGIX ak KGIX ak KGIX ak KGIW ak	100 100 100 100 100 100 100 100 100 100	5 5 F 1 (2.5) C C 1 (2.5) 4 (2.5) 4 C (1) C les D 4 D 1 P (.25) 1 P P 4 (.25)	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans.	KLS KXYZ TIFS WBIG WCBA WCBA WCBA WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV 1470 KGA WLAC 1480 KOMA	aek zaejae ki aek ki ak ki ak ki	1000 7.5 500 500 500 500 500 500 1000 250 1000 10000 10000 10000 10000 10000 10000 10000	(1441) C (1) a C (1) a C (1) a cles B (1) cles Cles Cles Cles Cles Cles	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C. Spokane, Wash. Nashville, Tenn.
CKFC ak CKMO ag CMCR z KGRS ae WBCM ae WDAG ae WHBL ae WHBX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKNC ak KABR z KABR z KABR ak KABR z KABR ak KAGW ak KAGW ak KGIX ak KGIX ak KGIX ak KGIX ak KGIW ak	100 100 500 1000 500 1000 2500 500 2500 500 100 100 100 100 100 100 100 100	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans. Portland, Ore. Waco, Texas	KLS KXYZ TIFS WBIG WCBA WCBA WSAN XEFI 1450 CFCT CHGS KTBS WGAR WHOM WSAR WTFI 1460 CMKF KSTP WJSV 1470 KGA WLAC 1480	aek zaejae ki aek ki ak ki ak ki	1000 1000 7.5 500 500 500 500 500 250 1000 1	(1441) (C (1) a (C (1) a cles N B (1) cles Cles N (255) C C C	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. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C. Spokane, Wash. Nashville, Tenn.
CKFC ak CKMO ag CMCR Z KGRS ae WAAB ak WBCM ae WHAL ae WHIS ae WHSX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGI ak KABR z K	100 100 100 100 100 100 100 100 100 100	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans. Portland, Ore. Waco, Texas Presque Isle, Maine	KLS KXYZ WEIGA WCBA WCBA WCBA WCBA WSAN WSAN WGAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WAAR WLAC 1480 KOMA WKBW	nek zaejae ki naeckkaeeak ki zaek ki aka	1000 7.5 500 500 500 500 500 500 500 5	(1441) C (1) C (1) C (1) C (1) C (2) C (1) C (2)	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C. Spokane, Wash. Nashville, Tenn.
CKFC ak CKMC ag CMCR Z KGRS ae WHAAB ae WHABL ae WHBL ae WHBS ae WRBX ae WRBX ae WRBX ae KRBC ak CKMC ak CKMC ak CKMC ak KABC ak KAGFF ak KGFF	100 100 500 500 500 500 250 500 500 500 100 100 100 100 100 100 1	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans. Portland, Ore. Waco, Texas Presque Isle, Maine	KLS KXYZ WEIGA WCBA WCBA WCBA WCBA WSAN WSAN WGAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WAAR WLAC 1480 KOMA WKBW	nek zaejae ki naeckkaeeak ki zaek ki aka	1000 7.5 500 500 500 500 500 500 500 5	(1441) C (1) C (1) C (1) C (1) C (2) C (1) C (2)	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C. Spokane, Wash. Nashville, Tenn.
CKFC ak CKMO ag CMCR Z KGRS ae WAAB ak WBCM ae WHAL ae WHIS ae WHSX ae WROK ak WSFA ak 1420 ki CKGB ak CKNC ak CKGI ak KABR z K	100 100 100 100 100 100 100 100 100 100	5 5 F	Vancouver, B. C. Havana, Cuba Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W. Va. Roanoke, Va. Rockford, Ill. Montgomery, Ala. Timmins, Ont. Toronto, Ont. Colon, Cuba San Antonio, Texas Aberdeen, S. Dak. Portland, Ore. Texarkana, Ark. Fond du Lac, Wis. Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. Las Vegas, Nev. Lamar, Colo. Pecos, Texas Eugene, Ore. Lewiston, Idaho Yuma, Ariz. Hutchinson, Kans. Portland, Ore. Waco, Texas	KLS KXYZ WEIGA WCBA WCBA WCBA WCBA WSAN WSAN WGAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WSAR WHOM WAAR WLAC 1480 KOMA WKBW	aek zaek ki ak ki ak ki ak ki	1000 7.5 500 500 500 500 500 500 1000 250 1000 10000 10000 10000 10000 10000 10000 10000	(1441) C (1) C (1) C (1) C (1) C (2) C (1) C (2)	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. Cleveland, Ohio Jersey City, N. J. Fail River, Mass. Athens, Ga. Holquin, Cuba St. Paul, Minn. Washington, D. C. Spokane, Wash. Nashville, Tenn.

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 Birmingham WAPI 1140 5000 N WBRC 330 1000 C WSGN 1310 100 Little Rock KAK 890 250 KAK 880 250	column: G Golumbia, K No	itional Kea, B National Blue	, N National Rea and Blue.	r Canadian. A American.
String Start Sta	ΔΙ ΔΡΑΜΑ	Hot Springs	Modesto	Pueblo
WAPI 1140 5000 N WBRC 930 1000 C WSGN 1310 100 C WSGN 1310 100 C WARK 890 250 KGH 1200 100 C MWFO 1370 100 C MGM Mobile WALA 1380 500 C Muscle Shoals WNRA 1420 100		KTHS 1060 10000 N		KGHF 1320 500
WSGN 1310 100				
Decature			KLS 1440 250	
Mark September Stark				
WMFO 1370 100 Dothan WAGF 1370 100 KLRA 1390 1000 C Gadden WJBY 1210 100 WALA 1380 500 C Montgomery WSFA 1410 500 C Muscle Shoals WNRA 1420 100 ALASKA Anchorage KFOD 780 Juneau KINY 610 250 Kotchikan KGMC 1300 100 KGMC 1310 100 KGMC 1310 100 KGMC 1300 100 KGMJ 1310 100 KGMC 1300 100 KGMJ 1310 100 KGMJ 1310 100 KGMJ 1310 100 KGMC 1330 1000 C San Bernardino KFSM 1210 100 KGM 1230 1000 C San Francisco KFSM 1210 100 KGM 1230 1000 C KGGC 1420 100 KGGC 1420				CONNECTION
Dothan WAGF 1370 100 Gadsden Walgy 1210 100 Texarkana KOTN 1500 100 Galarison Complete Markana M				
Pine Bluff Not Note				WICC 600 500 C
Cadaden WJBY 1210 100 Mobile WJBY 1210 100 C CalFornia CalFo				
MyBY 1210 100 Mobile MALA 1380 500 C MALA 1380 500 C Montgomery WSFA 1410 500 C Muscle Shoals WNRA 1420 100 Morkey MNRA				WDRC 1330 1000 C
Mobile MALA 1380 500 C Montgomery WSFA 1410 500 C Montgomery WSFA 1410 500 C Muscle Shoals WNRA 1420 100 Bakersfield KERN 1370 100 C San Francisco KFRC 610 1000 C San Francisco KFRC 610 1000 C KFRC 610				WTIC 1040 50000 R
WALA 1380 500 C Montgomery WSFA 1410 500 C Missele Shoals WNRA 1420 100 MERA 1370 100 C W6XAI 1550 1000 MERA 1420 100 MERA				New Britain
Montgomery WSFA 1410 500 C Muscle Shoals WNRA 1420 100 Bakersfield KERN 1370 100 C San Francisco C KFRC 610 1000 C Storrs WCAC 600 500 Waterbury Water				WMFE 1380 250
Montgoline Mon				
Work				
Wolf Mile				
Alaska				
ALASKA Anchorage KFQD 780 250 Juneau KINY 610 250 Kotchikan KGBU 900 500 ARIZONA Jerome KCRJ 1310 100 Lowell KSUN 1200 100 Phoenix KOY 1390 500 KTAR 620 1000 N Prescott KPJM 1500 100 KFWB 950 1000 KWG 1200 100 C Colorado Springs KVOR 1270 1000 C KFEL 920 500 WMBR 1370 100 C Colorado Springs WMFJ 1420 100 WIZEL 1120 250 A WILM 1420 100 WIZEL 1120 250 A WILM 1420 100 WIZEL 1120 250 A WILM 1420 100 COLORADO WIZEL 1120 1000 KWG 1010 1000 N WISS 1530 1000 A WILM 1420 100 COLORADO WISS 1530 1000 N WISS 1530 1000 A WILM 1420 100 WISS 1530 1000 N WISS 1530 1000 N WILM 1420 100 COLORADO WISS 1530 1000 N WISS 150 1000 N WISS 1530 1000 N W	WNRA 1420 100			
Anchorage KFQD 780 250 Juneau KINY 610 250 Ketchikan KGBU 900 500 ARIZONA Jerome KCRJ 1310 100 Lowell KSUN 1200 100 Phoenix KOY 1390 500 KTAR 620 1000 N Prescott KPJM 1500 100 Tucson KGAR 1370 100 KFYD 1000 250 KFYA 1200 100 Crocation WIND 1300 1000 KFYA 1230 1000 N WIDEL 1120 250 A WILM 1230 1000 N WIDEL 1120 250 N WILM 1230 1000 N WIDEL 1120 250 N WILM 1420 100 COLUMBIA Washington WIDEL 1120 250 N WILM 1420 100 COLUMBIA Washington WIDEL 1120 250 N WILM 1420 100 WIDEL 1120 250 N WILM 1420 100 COLUMBIA Washington WIDEL 1120 250 N WILM 1420 100 COLUMBIA Washington WIDEL 1120 1000 N KYA 1230 1000 N WIDEL 1120 250 N WILM 1420 100 WILM 1420 100 COLUMBIA WI	ALASKA			
Karon Surbank Kel W 780 500 Kotchikan Ko	Anchorage			
Surbank Self Self Surbank Self Self Surbank Self Sel				
Kiny Chico Ketchikan Kobu 900 500 Kiny 50				
Kotchikan KGBU 900 500			KTAB 560 1000	Wilmington
KGBU 900 500				
ARIZONA Jerome KXO 1500 100 Euroka KXO 1500 100 Euroka KXO 1500 100 Euroka KXO 1500 100 Euroka KXO 1310 100 Euroka KXEM 1210 100 Santa Ana KREG 1500 100 CMMAL 630 250 B MAL 620 1000 N Fresno KMJ 580 1000 C Glendale KIEV 850 250 KIEV 850 250 Kokum KIEV 850 1000 KWG 1200 100 C KWG 1200 100 C KWG 1200 100 C COLORADO COLORADO KWG 1200 100 C COLORADO				WILM 1420 100
Santa Ana Columbia				DISTRICT OF
Sample Stock Sto		KXO 1500 100		
KIEM 1210 100 1200 100 12000 12000 12000 12000 12000 12000 12000 12				
Fresno		KIEM 1210 100		
RSUN 100 100 100 RMJ 580 1000 C Stockton RUN 1310 100 A RUN 1310		Fresno	KDB 1500 100 C	
Phoenix		KMJ 580 1000 C	Stockton	
KOY 1390 500 KTAK 620 1000 N Prescott KFWB 950 1000 KFWB 950 1000 KFWB 950 1000 KMTR 570 1000 Colorado Springs KGIW 1270 1000 Colorado Springs KVOR 1270 1000 Colorado Spr			KGDM 1100 1000	
Trucson			KWG 1200 100 C	,
Frescott KPJM 1500 100 KMTR 570 1000 KGIW 1420 100 Colorado Springs KVOR 1270 1000 Colorado Spri	KTAR 620 1000 N			FLORIDA
Tucson				Clearwater
Tucson	KPJM 1500 100			
KGAR 1370 100 Long Beach KFOX 1250 1000 C Denver Single C C C C C C C C C				
KVOA 1260 500	KGAR 1370 100			
Yuma KGER 1360 1000 KFEL 920 500 WRUF 830 5000 KUMA 1420 100 Los Angeles KLZ 560 1000 C Jacksonville Blythoville KFAC 1300 1000 KPOF 880 5000 WMBR 1370 100 WMBR 1370 100 WMBR 1370 100 Miami WIOD 1370 100 KFSG 1120 1000 Grand Junction WIOD 1300 1000 N WQAM 560 1000 Orlando KELD 1370 100 KFVD 1000 250 KFXJ 1200 100 WQAM 560 1000 Orlando KUOA 1260 1000 KHJ 900 1000 CKFKA 880 500 WDBO 580 1000 Orlando KUOA 1260 1000 KRKD 1120 1000 Lamar Pensacola Pensacola				
KUMA 1420 100			KEEL OOU EUU	
ARKANSAS Blythoville KLCN 1290 100 KFI 640 50000 N KPOF 880 500 KPOF 880 500 KPOF 880 500 KPOF 1200 100 KFI 640 50000 N KPOF 880 500 WMBR 1370 100 C KPOF 1000 250 KFVD 1000 250 Fayetteville KUOA 1260 1000 KGFJ 1200 100 KFKA 880 500 VMAX 900 1000 N WMBR 1370 100 C Grand Junction WIOD 1300 1000 C Orlande WDAM 560 1000 C Fort Smith KFKD 1120 1000 KFKA 880 500 Pensacola				
Bightheville KFAC 1300 1000 KPOF 880 500 MMBR 1370 100 C				
KLČN 1290 100 KFI 640 50000 N KVOD 920 500 Miami El Dorado KFSG 1120 1000 Grand Junction WIOD 1300 1000 N KELD 1370 100 KFVD 1000 KFXJ 1200 100 WOAM 560 1000 N Fayetteville KUOA 1260 1200 1000 KFKA 880 500 WDBO 580 1000 C Fort Smith KRKD 1120 1000 Lamar Pensacola				
El Dorado KFSG 1120 1000 Grand Junetion WIOD 1300 1000 N KELD 1370 100 KFVD 1000 250 KFXJ 1200 100 WQAM 560 1000 C Greeley Fayetteville KUOA 1260 1000 KHJ 900 1000 C KFKA 880 500 WDBO 580 1000 C Fort Smith KRKD 1120 1000 Lamar Pensacola				
KELD 1370 100 KFVD 1000 250 KFXJ 1200 100 WOAM 560 1000 C Fayetteville KGFJ 1200 100 Greeley Orlando Orlando WDBO 580 1000 C WDBO 580 1000 C Lamar Pensacola				
Fayetteville KGFJ 1200 100 Greeley Greeley WDBO 580 1000 C	El Dorado			
KUOA 1260 1000 KHJ 900 1000 C KFKA 880 500 WDBO 580 1000 C Fort Smith KRKD 1120 1000 Lamar Pensacola	KELD 1370 100			
Fort Smith KRKD 1120 1000 Lamar Pensacola				
Fort Smith KRKD 1120 1000 Lamar Pensacola	KUOA 1260 1000		KFKA 880 500	
		KRKD 1120 1000		
			KIDW 1420 100	WCOA 1340 500 C
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St. Petersburg WSUN 620 1000 N	Peoria WMBD 1440 500 C	Garden City KIUL 1210 100	Fall River WSAR 1450 250
Tallahassee	Quincy	Hutchinson	Lowell
WTAL 1310 100	WTAD 900 500	KWBG 1420 100	WLLH 1370 100
Tampa WDAE 1220 1000 C	Rockford WROK 1410 500	Kansas City WLBF 1420 100	New Bedford WNBH 1310 100 C
GEORGIA	Rock Island	Lawrence	Springfield
Albany	WHBF 1210 100	KFKU 1220 1000	WBZA 990 1000 B
WGPC 1420 100	Springfield	WREN 1220 1000 B	WMAS 1420 100 C
Athens WTFI 1450 500	WCBS 1210 100 WTAX 1210 100	Manhattan	Worcester
Atlanta	WTAX 1210 100 Tuscola	KSAC 580 500 Topeka	WORC 1280 500 C 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 100
Augusta WRDW 1500 100	Waukegan WCBD 1080 5000	KENTUCKY Ashland	Bay City
Columbus		WCMI 1310 100	WBCM 1410 500
WRBL 1200 100	INDIANA Anderson	Covington	Calumet
Griffin	WHBU 1210 100	WCKY 1490 5000 B	WHDF 1370 100 Detroit
WKEU 1500 100 Macon	Elkhart	Lexington WLAP 1420 100	WJBK 1500 100
WMAZ 1180 1000	WTRC 1310 50	WLAP 1420 100 Louisville	WJR 750 10000 B
Rome	Evansville WGBF 630 500	WAVE 940 1000 N	WMBC 1420 100
WRGA 1500 100	Fort Wayne	WHAS 820 50000 C	WWJ 920 1000 R WXYZ 1240 1000
Savannah WTOC 1260 1000 C	WGL 1370 100 C	Paducah	East Lansing
Thomasville	WOWO 1160 10000 C	WPAD 1420 100 LOUISIANA	WKAR 1040 1000
WPAX 1210 100	Gary WIND 560 1000	Baton Rouge	Flint
HAWAII	Hammond	WJBO 1420 100	WFDF 1310 100
Honolulu	WWAE 1200 100	Lafayette	Grand Rapids WASH 1270 500
KGMB 1320 1000 C	Indianapolls	1310 100	WOOD 1270 500
KGU 750 2500 N	WFBM 1230 1000 C WIRE 1400 500 R	Lake Charles KPLC 1500 100	Ironwood
IDAHO	WIRE 1400 500 R Muncie	Monroe	WJMS 1420 100
Bolse KIDO 1350 1000	WLBC 1310 50	KMLB 1200 100	Jackson WIBM 1370 100
Idaho Falls	Richmond	New Orleans	Kalamazoo
KID 1320 250	WKBV 1500 100 South Bend	WBNO 1200 100 WDSU 1250 1000 C	WKZO 590 1000
Lewiston KRLC 1420 100	WFAM 1200 100	WJBW 1200 100	Lansing WJIM 1210 100
Nampa	WSBT 1360 500 C	WSMB 1320 1000 N	Lapeer
KFXD 1200 100	Terre Haute	WWL 850 10000	WMPC 1200 100
Pocatello	WBOW 1310 100 West Lafayette	Shreveport KRMD 1310 100	Marquette
KSEI 890 250 Twin Falls	WBAA 890 1000	KTBS 1450 1000 N	WBEO 1310 100 Muskegon
KTFI 1240 1000	IOWA	KWEA 1210 100	WKBZ 1500 100
ILLINOIS	Ames	KWKH 1100 10000 C	Royal Oak
Bloomington ·	WOI 640 5000	Augusta	WEXL 1310 50
WJBC 1200 100	Boone	WRDO 1370 100	MINNESOTA
Carthage	KFGQ 1370 100	Bangor	Fergus Falls KGDE 1200 100
WCAZ 1070 100	Cedar Rapids WMT 600 1000 B	WABI 1200 100 WLBZ 620 500 C	Hibbing
Chicago WAAF 920 500	Council Bluffs	Portland	WMFG 1210 100
WBBM 770 50000 C	KOIL 1260 1000 B	WCSH 940 1000 R	Minneapolis
WCFL 970 1500 B	Davenport WOC 1370 100 C	Presque Isle	WCCO 810 50000 C WDGY 1180 1000
WCRW 1210 100	Decorah	WAGM 1420 100	WDGY 1180 1000 WLB 1250 1000
WEDC 1210 100 WENR 870 50000 N	KGCA 1270 100	MARYLAND Baitimore	WTCN 1250 1000
WGES 1360 500	KWLC 1270 100	WBAL 1060 10000 B	Moorhead
WGN 720 50000	Des Moines	WCAO 600 500 C	KGFK 1500 100
WJJD 1130 20000	KRNT 1320 500 C KSO 1430 250 B	WCBM 1370 100 A	Northfield WCAL 1250 1000
WLS 870 50000 N WMAQ 670 50000 N	WHO 1000 50000 R	WFBR 1270 500 R	Rochester
WMBI 1080 5000 N	Iowa City	WTBO 800 250	KROC 1310 100
WSBC 1210 100	WSUI 880 500	Frederick	St. Paul
Cicero	Marshalltown KFJB 1200 100	WFMD 900 500	KSTP 1460 10000 N
WEHS 1420 100	KFJB 1200 100 Shenandoah	Hagerstown	MISSISSIPPI
WHFC 1420 100 WKBI 1420 100	KFNF 890 500	WJEJ 1210 100 Massachusetts	Clarksdale WMFN 1210 100
Decatur	KMA 930 1000	Babson Park	Hattiesburg
WJBL 1200 100	Sloux City	WBSO 920 500	WPFB 1370 100
East Dubuque	KSCJ 1330 1000 C	Boston	Jackson
WKBB 1500 100	KANSAS	WAAB 1410 500 C WBZ 990 50000 B	WJDX 1270 1000 N
East St. Louis WTMV 1500 100	Abilene KFBI 1050 5000	WBZ 990 50000 B WEEI 590 1000 R	Kosciusko WHEF 1500 100
Harrisburg	Coffeyville	WHDH 830 1000 A	Laure
WEBQ 1210 100	KGGF 1010 1000	WMEX 1500 100 A	WAML 1310 100
Jollet	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 Vicksburg	WPG 1100 5000 C Camden	WHAM 1150 50000 B WHEC 1430 500 C	WKBN 570 500 C
WOBC 1360 1000	WCAM 1280 500	Saranac Lake	WALR 1210 100
MISSOURI Cape Girardeau	Jersey City WAAT 940 500	WNBZ 1290 100 Schenectady	OKLAHOMA Ada
KFVS 1210 100	WHOM 1450 250	WGY 790 50000 R	KADA 1200 100
Columbia KFRU 630 500	Newark WHBI 1250 1000	Syracuse WFBL 1360 1000 C	Ardmore KVSO 1200 100
Jefferson City	WNEW 1250 1000 A	WSYR 570 250 B	Elk City
WOS 630 500	WOR 710 50000 Red Bank	Troy WHAZ 1300 500	KASA 1210 100 Enld
WMBH 1420 100	WBRB 1210 100	Utica	KCRC 1370 100
Kansas City	Trenton	WIBX 1200 100 C	Norman
KMBC 950 1000 C KWKC 1370 100	WTNJ 1280 500 A Zarephath	White Plains WFAS 1210 100	WNAD 1010 1000 Oklahoma City
WDAF 610 1000 R	WAWZ 1350 500	Woodside	KFXR 1310 100
WHB 860 1000 W9XBY 1530 1000	NEW MEXICO	WWRL 1500 100	KGFG 1370 100 KOMA 1480 5000 C
St. Joseph	Albuquerque KGGM 1230 250	NORTH CAROLINA Asheville	WKY 900 1000 N
KFEQ 680 2500 St. Louis	KOB 1180 10000	WWNC 570 1000 N	Ponca City WBBZ 1200 100
KFUO 550 500	Clovis KICA 1370 100	Charlotte WBT 1080 50000 C	Shawnee
KMOX 1090 50000 C	Roswell	WSOC 1210 100 N	KGFF 1420 100
KSD 550 1000 R KWK 1350 1000 B	KGFL 1370 100	Durham WDNC 1500 100 C	Tulsa KTUL 1400 500 C
WEW 760 1000	Santa Fe KIUJ 1310 100	Greensboro	KVOO 1140 25000 N
WIL 1200 100 1500 100	NEW YORK	WBIG 1440 500 C	OREGON Astoria
Springfield	Albany	High Point 1200 100	KAST 1370 100
KGBX 1230 500 KWTO 560 5000	WABY 1370 100	Raleigh	Corvallis KOAC 550 1000
MONTANA	WOKO 1430 500 C	WPTF 680 1000 N Rocky Mount	KOAC 550 1000 Eugene
Billings	WMBO 1310 100	WEED 1420 100	KORE 1420 100
KGHL 780 1000 N	Binghamton WNBF 1500 100 C	Wilmington	Klamath Falls KFJI 1210 100
Butte KGIR 1360 1000 N	Brooklyn	WMFD 1370 100 Winston-Salem	Marshfield
Great Falls	WARD 1400 500	WSJS 1310 100 C	KOOS 1200 250
KFBB 1280 1000 Kalispell	WBBC 1400 500 WBBR 1300 1000	NORTH DAKOTA	Medford KMED 1310 100
KGEZ 1310 100	WCNW 1500 100	Bismarck KFYR 550 1000 N	Portland
Missoula KGVO 1260 1000	WLTH 1400 500 WMBO 1500 100	Devils Lake	KALE 1300 500 C KBPS 1420 100
KGVO 1260 1000 Wolf Point	WVFW 1400 500	KDLR 1210 100	KEX 1180 5000 N
KGCX 1310 100	Buffalo WBEN 900 1000 R	Fargo WDAY 940 1000 N	KFJR 1300 500 KGW 620 1000 N
NEBRASKA	WEBR 1310 100 K	Grand Forks	KOIN 940 1000 C
Clay Center KMMJ 740 1000	WGR 550 1000 C WKBW 1480 5000 C	KFJM 1370 100 Mandan	KWJJ 1040 500 KXL 1420 100
Kearney	WSVS 1370 50	KGCU 1240 250	Salem
KGFW 1310 100 C	Canton	Minot KLPM 1240 250	KSLM 1370 100
KFAB 770 10000 C	WCAD 1220 500 Chester	OHIO	PENNSYLVANIA Allentown
KFOR 1210 100 C Norfolk	WGNY 1210 100	Akron	WCBA 1440 500
WJAG 1060 1000	Elmira WESG 850 1000	WADC 1320 1000 C WJW 1210 100	WSAN 1440 500 Altoona
North Platte KGNF 1430 1000	Freeport	Canton	WFBG 1310 100
Omaha	WGBB 1210 100 Jamestown	WHBC 1200 100 Cincinnati	Clarion WWPA 850 250
WAAW 660 500	WOCL 1210 50	WFBE 1200 100	Erie 850 250
WOW 590 1000 R Scottsbluff	Long Island City	WKRC 550 1000 C	WLEU 1420 100
KGKY 1500 100	W2XR 1550 1000 New York	WLW 700 500000 N WSAI 1330 1000 R	Glenside WIBG 970 100
York KGBZ 930 1000	WABC 860 50000 C	Cleveland	Greensburg
NEVADA	WBNX 1350 250 WBOO 860 50000	WGAR 1450 500 B WHK 1390 1000 C	WHJB 620 250 Grove City
Las Vegas	WEAF 660 50000 R	WJAY 610 500	WSAJ 1310 100
KGIX 1420 100 Reno	WEVD 1300 1000	WTAM 1070 50000 R	Harrisburg
KOH 1380 500 C	WFAB 1300 1000 WHN 1010 1000	Columbus WAIU 640 500	WHP 1430 500 C WKBO 1200 100
NEW HAMPSHIRE	WINS 1180 1000	WBNS 1430 500 C	Hazleton
Laconia WLNH 1310 100	WJZ 760 50000 B WLWL 1100 5000	WCOL 1210 100 WOSU 570 750	WAZL 1420 100
Manchester -	WMCA 570 500	Dayton	Johnstown WJAC 1310 100
WFEA 1340 500 C	WNYC 810 1000	WHIO 1260 1000 R	Lancaster
Portsmouth WHEB 740 250	WOV 1130 1000 Olean	WSMK 1380 200 C Portsmouth	WGAL 1500 100 WKJC 1200 100
NEW JERSEY	WHDL 1420 100	WPAY 1370 100	Philadelphia
Asbury Park WCAP 1280 500	Plattsburg WMFF 1310 100	WSPD 1340 1000 C	KYW 1020 10000 R WCAU 1170 50000 C
11 GAL 1200 500	11 MILE 1910 100	11 21 D 1340 1000 C	11/0 50000 C

WDAS 1370 100	Memphis	Waterbury	Janesville
WFIL 560 1000 B WHAT 1310 100	WHBQ 1370 100 WMC 780 1000 N	WDEV 550 500 VIRGINIA	WCLO 1200 100 LaCrosse
WIP 610 500 A	WNBR 1430 500	Arlington	WKBH 1380 1000
WPEN 920 250 WRAX 920 250	WREC 600 1000 C Nashville	NAA 690 1000 Charlottesville	Madison WHA 940 2500
WTEL 1310 100	WLAC 1470 5000 C	WEHC 1420 100	WIBA 1280 1000 N
Pittsburgh KDKA 980 50000 B	WSM 650 50000 N Springfield	Danville WBTM 1370 100 '	Manitowoc WOMT 1210 100
KQV 1380 500 WCAE 1220 1000 R	WSIX 1210 100 TEXAS	Lynchburg WLVA 1200 100	Milwaukee
WJAS 1290 1000 C	Amarillo	Newport News	WISN 1120 250 C WTMJ 620 1000 N
WWSW 1500 100 Reading	KGRS 1410 1000 WDAG 1410 1000	WGH 1310 100 Norfolk	Poynette WIBU 1210 100
WEEU 830 1000	Austin	WTAR 780 500 N	Racine
WRAW 1310 100 Scranton	KNOW 1500 100 Beaumont	Petersburg WPHR 880 500	WRJN 1370 100 Sheboygan
WGBI 880 500	KFDM 560 500	Richmond	WHBL 1410 500
WQAN 880 250 Sunbury	College Station WTAW 1120 500	WBBL 1210 100 WMBG 1210 100 C	Stevens Point WLBL 900 2500
WKOK 1210 100 Wilkes-Barre	Corpus Christi	WRVA 1110 5000 N	Superior
WBAX 1210 100	Dallas	Roanoke WDBJ 930 1000 C	WEBC 1290 1000 N WYOMING
WBRE 1310 100 Williamsport	KRLD 1040 10000 C WFAA 800 50000 N	WRBX 1410 250 Staunton	Casper KDFN 1440 500
WRAK 1370 100	WRR 1280 500	WSVA 550 500	Sheridan
York WORK 1320 1000	Dublin KFPL 1310 100	WASHINGTON	KWYO 1370 100 CANADA
PORTO RICO	El Paso	Aberdeen KXRO 1310 100	ALBERTA
WPRP 1420 100	KTSM 1310 100 WDAH 1310 100	Bellingham KVOS 1200 100	Calgary
San Juan WKAQ 1240 1000	Fort Worth	Everett	CFCN 1030 10000 F
WNEL 1290 500	KFJZ 1370 100 KTAT 1240 1000 C	KRKO 1370 50 Olympia	CJCJ 690 100 F Edmonton
RHODE ISLAND Providence	WBAP 800 50000 N Galveston	KGY 1210 100	CFRN 1260 100
WEAN 780 500 C	KLUF 1370 100	Pullman KWSC 1220 1000	CJCA 730 1000 F CKUA 580 500
WJAR 890 500 R WPRO 630 250 A	Houston KPRC 920 1000 N	Seattle KJR 970 5000 N	Lethridge
SOUTH CAROLINA	KTRH 1290 1000 C	KOL 1270 1000 C	CJOC 1230 100 F British Columbia
Anderson WAIM 1200 100	KXYZ 1440 1000 Longview	KOMO 920 1000 N KPCB 710 250	Chilliwack CHWK 780 100 F
Charleston WCSC 1360 500	KFRÖ 1370 100 Lubbock	KRSC 1120 100	Kamioops
Columbia	KFYO 1310 100	KTW 1220 1000 KVL 1370 100	CFJC 880 100 F Kelowna
WIS 1010 1000 N Greenville	Pecos KIUN 1420 100	KXA 760 250	CKOV 630 100 F
WFBC 1300 1000	Port Arthur KPAC 1260 500	Spokane KFIO 1120 100	Trai CJAT 910 250 F
Spartanburg WSPA 920 1000	San Angelo	KFPY 1340 1000 C KGA 1470 5000 N	Vancouver CJOR 600 500
WWC 1420 1000 SOUTH DAKOTA	KGKL 1370 100 San Antonio	KHQ 590 1000 N	CKCD 1010 100
Aberdeen	KABC 1420 100	Tacoma KMO 1330 250	CKFC 1410 50 CKMO 1410 100 F
KABR 1420 100 Brookings	KMAC 1370 100 KONO 1370 100	KVI 570 1000 C	CKWX 1010 100 F
KFDY 780 1000	KTSA 550 1000 C	KUJ 1370 100	Victoria
Huron KGDY 1340 250	WOAI 1190 50000 N Tyler	Wenatchee KPQ 1500 100	CFCT 1450 75 MANITOBA
Pierre	KGKB 1500 100 Waco	Yakima	Brandon
Rapid City	WACO 1420 100 C	KIT 1310 100 West Virginia	CKX 1120 100 F Winnipeg
WCAT 1200 100 Sloux Falls	Weslaco KRGV 1260 500	Bluefield	CJRC 1390 100 F
KSOO 1110 2500	Wichita Falls	WHIS 1410 250 Charleston	CKY 960 15000 F NEW BRUNSWICK
Vermillion KUSD 890 500	KGKO 570 500 C UTAH	WCHS 580 500	Fredericton
Watertown	Ogden	Fairmont WMMN 890 500	CFNB 550 1000 F Moncton
KWTN 1210 100 Yankton	KLO 1400 500 C Salt Lake City	Huntington WSAZ 1190 1000	CKCW 1370 100 F
WNAX 570 1000 C	KDYL 1290 1000 N	Parkersburg	CHSJ 1120 100 F
TENNESSEE Bristol	KSL 1130 50000 C VERMONT	1420 100 Wheeling	N. W. TERRITORY Aklavik
WOPI 1500 100	Burlington	WWVA 1160 5000 C	CJCU 1210 50
Chattanooga WDOD 1280 1000 C	WCAX 1200 100 Rutland	WISCONSIN Eau Claire	NOVA SCOTIA Glace Bay
Jackson	WSYB 1500 100	WTAQ 1330 1000	VAS 685 2000
WTJS 1310 100 Knoxville	St. Albans WODM 1370 100	Fond du Lac KFIZ 1420 100	Halifax CHNS 930 1000 F
WNOX 560 1000 C	Springfield	Green Bay	Sydney CJCB 1240 1000 F
WROL 1310 100	WNBX 1260 1000	WHBY 1200 100	

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Wolfville	Prince Albert	XEFG 1100 250	CMJK 760 150
CKIC 1010 50	CKBI 1210 100 F	XEFO 940 5000 XEFZ 1370 100	CMJL 960 50 Cardenas
Yarmouth CJLS 1310 100	Regina CHWC 1010 500 F	XEK 990 100	CMGE 1370 30
ONTARIO	CKCK 1010 500 F	XELC 740 100	Ciego de Avila
Brantford	Saskatoon CFOC 840 1000 F	XEMX 1280 12 XEN 710 1000	CMJH 1360 50
CKPC 930 100 F Chatham	CFQC 840 1000 F Yorkton	XEN 710 1000 XEO 940 5000	CMJI 1130 45 CMJO 1180 50
CFCO 1050 100 F	CJGX 630 500 F	XEP 840 500	
Cobalt	NEWFOUNDLAND	XETW 820 500 XEW 890 50000	Clenfuegos CMHJ 1180 100
CKMC 1210 50 Fort William	St. John's VOAC 1065 40	XEW 890 50000 XEWZ 1150 100	CMHW 810 100
CKPR 930 100 F	VOAS 940 100	XEXX 845 500	Colon CMGI 1420 30
Hamilton	VOGY 840 400	XEYZ 780 10000	Cruces 30
CHML 1010 50 F CKOC 1120 500 F	VONF 950 5000 VOWR 681 500	XFX 610 1000 DURANGO	CMHK 1330 250
Kingston	MIQUELON	Durange	Guantanamo CMKJ 1300 20
CFRC 1510 100	St. Pierre	XEE 1210 50	Havana
Kirkland Lake CJKL 1310 100	FQN 609 250	Mineral del Monte XELM 1310 15	CMAF 730 250
CJKL 1310 100 London	CENTRAL	GUANJUATO	CMBC 940 195
CFPL 730 100 F	AMERICA	Guanjuato	CMBD 1170 163 CMBG 1140 325
North Bay CFCH 930 100 F	COSTA RICA	XEAZ 1420 7 Leon	CMBS 770 130
CFCH 930 100 F Ottawa	Cartago TIFS 1441 7.5	XEKL 1240 500	CMBX 1380 171
CKCO 1010 100	TIGA 1014 30	JALISCO	CMBY 640 125 CMBZ 1000 120
ČRCO 880 1000 F	San Jose	Guadalajara XEA 1060 125	CMC 835 500
Prescott CFLC 930 100	TIEP 850 500 TIFA 1050 75	XEA 1060 125 XED 1160 500	CMCA 1350 435
St. Catharines	TIGH 1000 500	MICHOACAN	CMCB 1230 112
CKTB 1200 100 F	TIRC 1100 75	Morella	CMCD 960 180 CMCF 815 250
Sault Ste. Marie CJIC 890 100	TIRH 930 50 GUATÉMALA	XEI 1370 125 NUEVO LEON	I CMCG 1255 162
Stratford	Guatemala City	Monterrey	CMCJ 1200 500
10-AK 1200 15	TGW 565 10000	XEFB 1420 100	CMCN 1500 162 CMCO 1110 150
Sudbury CKSO 780 1000	TGX 1400 150	XEFJ 1230 100 XEH 1150 250	CMCP 1270 150
CKSO 780 1000 Timmins	EL SALVADOR San Salvador	XET 690 500	CMCQ 680 250
CKGB 1420 100	RDN 706 500	XEX 1310 125	CMCR 1410 122 CMCU 1280 152
Toronto Con 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 CMK 1060 1500
CRCT 840 5000 N	XFC 810 350 BAJA CALIFORNIA	San Luis Potosi XEZZ 1370 100	CMOA 790 72
Waterloo CKCR 1510 100	Agua Callente	XEZZ 1370 100 SONORA	CMOK 1470 184
Windsor	XEBC 730 5000	Nogales	CMOX 1320 250 CMO 840 500
CKLW 1030 5000 C	Ensenada XEG 1270 500	XEAF 1010 250	CMQ 840 500 CMW 600 1000
CRCW 600 1000 F Wingham	Mexicali	TAMAULIPAS Nuevo Laredo	CMX 920 650
10-BP 1200 25	XEAA 920 200	XEAM 960 50	Holquin CMKF 1460 30
PRINCE EDWARD	XEAO 560 250 Tijuana	XEFE 920 250	Manzanillo 30
ISLAND Charlottetown	XEC 1270 50	XENT 910 60000 Reynosa	CMKM 940 100
CFCY 630 1000 F	XEFL 1160 5000	XEAW 960 10000	Matanzas CMGC 1400 100
CHCK 1310 50	XEMO 865 2500 XEOK 765 2500	Tampico	CMGC 1400 100 CMGF 1120 100
Summerside CHGS 1450 50 F	CAMPECHE	XEFW 1310 250 XEMA 1080 50	CMGH 1040 15
QUEBEC	Cazaca	XES 990 250	Moron CMJP 1430 75
Chicoutimi	XEAJ 1310 15 CHIHUAHUA	VERACRUZ	Sagua la Grande
CRCS 950 100 F	Chihuahua	Jalapa XFB 1270 250	CMĤA 1070 50
CKCH 1210 100 F	XEFI 1440 250	Orizaba	San Spiritus CMHB 1240 30
Montmagny	Juarez XEFV 1210 100	XFD 1340 350	CMHB 1240 30 Santa Clara
VE9EK 1185 10	XEFV 1210 100 XEJ 1020 1250	Veracruz XETF 1220 12	CMHI 1210 150
Montreal CFCF 600 400 N	COAHUILA	XEU 1010 250	Santiago
CHLP 1120 100	Piedras Negras	YUCATAN	CMKC 1250 150
CKAC 730 5000 C	XELO 1110 10000 XEPN 590 50000	Merida XEFC 1310 100	DOMINICAN REPUBLIC
CRCM 910 5000 F New Carlisle	Saltillo	XEFC 1310 100 XEZ 630 500	San Pedro de
CHNC 1210 100 F	XELA 1240 50	WEST INDIES	Marcoris
Quebec	XEOX 640 250 Torreon	CUBA	HIH 1395 15
CHRC 580 100 F CKCV 1310 50 F	XETB 1310 125	Caibarien	Santo Domingo HIJ 1195 15
CKCV 1310 50 F CRCK 1050 1000 F	D. F.	CMHD 1270 250	HIX 1270 1000
SASKATCHEWAN	Mexico City XEAI 1240 100	Camaguey CMJC 1380 150	HIZ 1300 10
Moose Jaw	XEAI 1240 100 XEB 1030 10000	CMJE 1220 50	HAITI
CHAB 1200 100 F	XECW 1310 10	CMJF 1150 200	Port-au-Prince HHK 920 1000
CJRM 540 1000 F	XEFA 1180 500	CMJG 1010 50	720 1000

CFAC 930 100 Calgary, Alta.	CJOR 600 500 Vancouver, B. C.
Calgary Herald, Southam Bldg.	G. C. Chandler, Hotel Grosvenor CJRC 1390 100 Winnipeg, Man-
CFCF 600 400 Montreal, Que.	Royal Alexandra Hotel
CFCH 930 100 North Bay, Ont.	CJRM 540 1000 Moose Jaw, Sask.
Capitol Theatre Bldg.	311 Main St. No.
CFCN 1030 10000 Calgary, Alta. Toronto Gen. Trust Bldg.	CKAC 730 5000 Montreal, Que. 980 St. Catherine St. W.
CFCO 1050 100 Chatham, Ont.	CKBI 1210 100 Prince Albert, Sask.
Wm. Pitt Hotel	Canada Bldg.
CFCT 1450 75 Victoria, B. C. 620 View St.	CKCD 1010 100 Vancouver, B. C. 142 Hastings St. W.
CFCY 630 1000 Charlottetown, P.E.I.	CKCH 1210 100 Hull, Que.
143 Great George St.	Standish Hall Hotel
CFJC 880 100 Kamloops, B. C.	CKCK 1010 500 Regina, Sask.
Wilcox-Hall Bldg. CFLC 930 100 Prescott, Ont.	1853 Hamilton St.
CFLC 930 100 Prescott, Ont. Hoy Bldg., 307 George St.	CKCL 580 100 Toronto, Ont.
CFNB 550 1000 Fredericton, N. B.	CKCO 1010 100 Ottawa, Ont.
York St.	272 Somerset St. W.
CFPL 730 100 London, Ont. Richmond St.	CKCR 1510 100 Waterloo, Ont. 24 King St. So.
CFQC 840 1000 Saskatoon, Sask.	CKCV 1310 50 Quebec, Que.
216 First Ave., No.	254 Ave. Marguerite
CFRB 690 10000 Toronto, Ont. 37 Bloor St. W.	CKCW 1370 100 Moncton, N. B.
CFRC 1510 100 Kingston, Ont.	Moncton Brdestg. Co., Ltd. CKFC 1410 50 Vancouver, B. C.
Queens University	Hemlock & 12th Ave.
CFRN 1260 100 Edmonton, Alta.	CKGB 1420 100 Timmins, Ont.
Birks Bidg. CHAB 1200 100 Moose Jaw. Sask.	R. H. Thompson, Press Bldg.
CHAB 1200 100 Moose Jaw, Sask. Grant Hall Hotel	CKIC 1010 50 Wolfville, N. S. Acadia University
CHCK 1310 50 Charlottetown, P.E.I.	CKLW 1030 5000 Windsor, Ont.
36 Upper Hillsboro St.	Guaranty Trust Bldg.
CHGS 1450 50 Summerside, P. E. I.	CKMC 1210 50 Cobalt, Ont.
CHLP 1120 100 Montreal, Que.	R. L. MacAdam CKMO 1410 100 Vancouver, B. C.
Sun Life Bldg.	CKMO 1410 100 Vancouver, B. C. 1604 Bekins Bldg.
CHML 1010 50 Hamilton, Ont.	CKNC 1420 100 Toronto, Ont.
CHNC 1210 100 New Carlisle, Que.	805 Davenport Road
Gaspesian Radio Brdestg. Co.	CKOC 1120 500 Hamilton, Ont. Wentworth Bldg.
CHNS 930 1000 Halifax, N.[S.	CKOV 630 100 Kelowna, B. C.
Lord Nelson Hotel CHRC 580 100 Quebec, Que.	Okanagan Broadcasters, Ltd., Box 243
CHRC, Ltd., Victoria Hotel	CKPC 930 100 Brantford, Ont. Arcade Bldg.
CHSJ 1120 100 St. John, N. B.	CKPR 930 100 Fort William, Ont.
Admiral Beatty Hotel CHWC 1010 500 Regina, Sask,	Roya Edward Hotel
CHWC 1010 500 Regina, Sask. Williams Building	CKSO 780 1000 Sudbury, Ont.
CHWK 788 100 Chilliwack, B. C.	W. E. Mason, Grand Theatre Bldg. CKTB 1200 100 St. Catharines, Ont.
Wellington Ave.	E. T. Sandell, Welland House
CJAT 910 250 Trail, B. C.	CKUA 580 500 Edmonton, Alta.
Kootenay Brdcstg. Co. CJCA 730 500 Edmonton, Alta.	University of Alberta.
10122—100A St.	CKWX 1010 100 Vancouver, B. C.
CJCB 1240 1000 Sydney, N. S.	Hote Georgia CKX 1120 100 Brandon, Man.
318 Charlotte St.	Rosser Ave.
CJCJ 690 100 Calgary, Alta.	CKY 960 15000 Winnipeg, Man.
New Albertan Bldg.	Sherbrooke St.
CJCU 1210 50 Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior	CMAF 730 250 Havana, Cuba
CJGX 630 500 Yorkton, Sask.	CMBC 940 195 Havana, Cuba
188 Grain Exchange Bldg. (Winnipeg)	Domingo Fernandez, Maximo Gomez No. 139
CJIC 890 100 S. Ste. Marle, Ont. Windsor Hotel	CMBD 1170 163 Havana, Cuba
CJKL 1310 100 Kirkland Lake, Ont.	Luis Perez Garcia, Calle 17 y O, Vedado
O. J. Thorpe	CMBG 1140 325 Havana, Cuba John L. Stowers, Hospital No. 100
CJLS 1310 100 Yarmouth, N. S.	CMBS 770 130 Havana, Cuba
Laurie L. Smith, Grand Hotel	Calzada y H. St., Vedado
CJOC 1230 100 Lethbridge, Alta.	CMBX 1380 171 Havana, Cuba
Marquis Hotel	Alberto Alvarez, San Miguel 194

	CMBY 640 125 Havana, Cuba Infanta 132 esq-Jevellar		CMJI 1130 45 Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95
	CMBZ 1000 120 Havana, Cuba		CMJK 760 150 Camaguey, Cuba
	Manuely G. Salas, San Rafael No. 14 CMC 835 500 Havana, Cuba	\vdash $-$	Cla. Nacional de Radio, Finlay No. 3 CMJL 960 50 Camaguey, Cuba
	Aguila y Dragones		Enrique Artime, Cuba No. 27
	CMCA 1350 435 Havana, Cuba Galiano No. 102		CMJO 1180 50 Ciego de Avila, Cuba Jose M. Rey , C. Central & Maceo
	CMCB 1230 112 Havana, Cuba		CMJP 1430 75 Moron, Cuba Cesar Canall, Callejas No. 28
	O'Reilly y Aguacate CMCD 960 180 Havana, Cuba		CMK 1060 1500 Havana, Cuba
	Calle G y 25, Vedado CMCF 815 250 Havana, Cuba		Hotel Plaza CMKC 1250 150 Santiago, Cuba
	Raoul Karman, Rayo No. 67		J. A. Saco, Alta 23 CMKF 1460 30 Holquin, Cuba
	CMCG 1255 162 Havana, Cuba Malecon No. 340 Altos	1	Libertad esq. Arias
	CMCJ 1200 500 Havana, Cuba		CMKJ 1300 20 Guantanamo, Euba Luis Morlote, East Giro 11
	Rafael Rodriquez, Estevez No. 4 CMCK 1320 100 Havana, Cuba		CMKM 940 100 Manzanillo, Cuba
	Manuel Autran G., Vedado		Jesus Armeste, Merchant y P. Flguerado CMOA 790 72 Havana, Cuba
	CMCN 1500 162 Havana, Cuba Reina y Ave. Buen Ritiroe, Marianao		Juan Fernandez, Aguiar 126 Altes
	CMCO 1110 150 Havana, Cuba		CMOK 1470 184 Havana, Cuba Rafael Valdez, Marques Gonzales 52
-	Oficios 116 CMCP 1270 150 Havana, Cuba		CMOX 1320 250 Havana, Cuba
	Calzada de Luyane No. 132 CMCQ 680 250 Havana, Cuba		10 entre 17 y 19, Vedado CMQ 840 500 Havana, Cuba
1	Vista Alegre No. 80, Vibora		25 Numero 445, Vedado
	CMCR 1410 122 Havana, Cuba Milagros No. 35, Vibora		CMW 600 100 Havana, Cuba Paseo de Marti 103
_	CMCU 1280 152 Havana, Cuba		CMX 920 650 Havana, Cuba Casa "Lavin," Ave. dela Republica 99A
	San Francisco No. 13, Vibora CMCW 750 117 Havana, Cuba	-	CRCK 1050 1000 Quebec, Que.
	Galiano y San Lazaro Sts.		Chateau Frontenac Hotel CRCM 910 5000 Montreal, Que,
	CMCX 660 250 Havana, Cuba Maceo No. 7, Guanbacoa		1231 St. Catherine St. W.
	CMCY 1030 1000 Havana, Cuba Manuel D. Autran, Calle G 215, Vedado		CRCO 880 1000 Ottawa, Ont. Chateau Laurier Hotel
	CMGC 1400 100 Matanzas, Cuba		CRCS 950 108 Chicoutimi, Que,
	Independencia No. 56 CMGE 1370 30 Cardenas, Cuba	<u> </u>	4 Rue Larouche CRCT 840 5000 Toronto, Ont.
	Genaro Sebater, Cespedes No. 180		805 Davenport Road CRCV 1100 1000 Vancouver, B. C.
	CMGF 1120 100 Matanzas, Cuba G. Betancourt No. 51	}	C. N. R. Station Bldg.
	CMGH 1040 15 Matanzas, Cuba B. Byrne No. 113		CRCW 600 1000 Windsor, Ont. Guaranty Trust Bldg.
<u> </u>	CMGI 1420 39 Colon, Cuba		FQN 609 250 St. Pierre, Miq.
	Armando Linanza, Mart i No .35 CMHA 1070 50 Saguala Grande, Cuba		HHK 920 1000 Port-au-Prince, Haiti
	Abelardo Menocal, Carrillo No. 1		Haitian Government
	CMHB 1240 30 San Spiritus, Cuba Independencia No. 33		Domingo Dominguez
	CMHD 1270 250 Caibarlen, Cuba Manuel Alvarez, M. Escobar 17		HIJ 1195 15 Santo Domingo, D. R. Tuto Baez , Hostos 34
	CMHI 1210 150 Santa Clara, Cuba		HIX 1270 1000 Santo Domingo, D. R.
	Lavis y Paz, Independencia No. 34 CMHJ 1180 100 Cjenfuegos, Cuba		J. R. Saladin, Director General HIZ 1300 10 Santo Domingo, D. R.
	Romoualde Ugalde, Sta. Elena 104		Abbes and Garcia
	CMHK 1330 250 Cruces, Cuba Heredia No. 61		KABC 1420 100 San Antonio, Texas Texas Theatre Bldg.
	CMHW 810 100 Cienfuegos, Cuba		KABR 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.
	Arguelles No. 200 CMJC 1380 150 Camaguey, Cuba		KADA 1200 100 Ada, Okia.
	Cisneros y G. Gomez		C. C. Morris KALE 1300 500 Portland, Ore.
	CMJE 1220 50 Camaguey, Cuba Manuel Fernandez, Hnos. Aguere No. 2		Kale ,Inc., New Heathman Hotel
	CMJF 1150 200 Camaguey, Cuba		KARK 890 250 Little Rock, Ark, N. S. L. Bldg.
	John L. Stowers, Republica:No. 88 CMJG 1010 59 Camaguey, Cuba	-	KASA 1210 100 Eik City, Okla.
	Maceo No. 1		E. M. Woody, Casa Grande Hotel KAST 1376 100 Astoria, Ore.
	CMJH 1360 50 Ciego de Avila, Cuba Luis Marauri, H. Castilla 37		Abraham Shapiro

	(BPS 1420 100 Portland, Ore.		KFNF 890 500 Shenandoah, Iowa 407 Sycamore St.
	(BTM 1200 100 Jonesboro, Ark.		KFOR 1210 100 Lincoln, Neb.
	ay P. Beard		Howard Shuman, Hotel Lincoln
	(CMC 1420 100 Texarkana, Ark. 3 o x 865		KFOX 1250 1000 Long Beach, Calif. 220 E. Anaheim St.
	CRC 1370 100 Enid, Okla.		KFPL 1310 100 Dublin, Texas
	Committee Co. Oxford Hotel CCRJ 1310 100 Jerome, Ariz.		C. C. Baxter, Box 176
	Chas. C. Robinson, Drawer D.		KFPW 1210 108 Fort Smith, Ark. Goldman Hotel
K	(DB 1500 190 Santa Barbara, Calif. 5-17 E. Haley St.		KFPY 1340 1000 Spokane, Wash. Symons Bldg.
	OFN 1440 500 Casper, Wyo.		KFQD 780 250 Anchorage, Alaska 411—4th Ave.
	ADKA 980 50000 Pittsburgh, Pa. Notel Wm. Penn		KFRC 610 1008 San Francisco, Calif.
	IDLR 1210 100 Devils Lake, N. D.		1000 Van Ness Ave. KFRO 1370 100 Longview, Texas
K	DLR, Inc., 1025 3rd Street		Voice of Longview
	KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.		KFRU 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
K	ECA 1430 1000 Los Angeles, Calif.		KFSD 600 1000 San Diego, Calif.
	000 S. Hope St. KELD 1370 100 El Dorado, Ark.		U.S. Grant Hotel KFSG 1120 1000 Los Angeles, Calif.
т	. H. Barton		1100 Glendale Blvd.
	ELW 780 500 Burbank, Calif. 702 Magnolia Park Blvd.		KFUO 550 500 St. Louis, Mo. 801 De Mun St.
K	ERN 1370 100 Bakersfield, Calif.		KFVD 1000 250 Los Angeles, Calif.
	ilk's Club EX 1180 5000 Portland, Ore.		E. L. Cord, 645 S. Mariposa KFVS 1210 100 Cape Girardeau, Mo.
O:	regonian Bldg.		Oscar C. Hirsch, Box 275
	FAB 770 10000 Lincoln, Neb.	1 1	KFWB 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
K	FAC 1300 1000 Los Angeles, Calif.		KFXD 1200 100 Nampa, Idaho
	L. Cord, 645 So. Mariposa FBB 1280 1000 Great Falls, Mont.		Frank E. Hurt, 1024 12th Ave., S. KFXJ 1200 100 Grand Jct., Colo.
B	uttrey Broadcast., Inc.		Hillcrest Manor
	FBI 1050 5000 Abilene, Kans. ox 345		KFXM 1210 100 San Bernardino, Calif. California Hotel
	FBK 1310 100 Sacramento, Calif. acramento Bee		KFXR 1310 100 Oklahoma City, Okla- 541 Hightower Bidg.
K	FDM 560 500 Beaumont, Texas		KFYO 1310 100 Lubbock, Texas
	eaumont Hotel, P. O. Box 2950 FDY 780 1000 Brookings, S. D.		Kirksey Bros., Hotel Lubbock KFYR 550 1000 Bismarck, N. D.
So	outh Dakota State College		320 Broadway
	FEL 920 500 Denver, Colo.		KGA 1470 5000 Spokane, Wash. 1023 W. Riverside Ave.
K	FEQ 680 2500 St. Joseph, Mo.		KGAR 1370 100 Tucson, Ariz.
	chneider Bidg. FGQ 1370 100 Boone, lowa		142 S. 6th Ave.
	FGQ 1370 100 Boone, lowa		KGB 1330 1000 San Diego, Calif. 1012—1st St.
	FH 1300 1000 Wichita, Kans.		KGBU 900 500 Ketchikan, Alaska
K	FI 640 50000 Los Angeles, Calif.		Mile 5, Wards Cove Rd. KGBX 1230 500 Springfield, Mo.
	000 S. Hope St. FIO 1120 100 Spokane, Wash.		KGBX, Inc., C. of C. Bldg.
	3 Riverside Ave.		KGBZ 930 1000 York, Neb. KGBZ Broadcasting Co., 715 Grant Ave.
	FIZ 1420 100 Fond du Lac, Wis. 8 W. 1st St.		KGCA 1270 100 Decorah, Iowa Charles W. Greenley, 201 Water St.
KI	FJB 1200 100 Marshalltown, Iowa		KGCU 1240 250 Mandan, N. D.
	603 W. Main St. FJI 1210 100 Klamath Falls, Ore.		404 W. Main St. KGCX 1310 100 Wolf Point, Mont.
	FJI Broadcasters, Inc., Willard Hotel		E. E. Krebsbach.
	FJM 1370 100 Grand Forks, N. D. niversity of North Dakota		KGDE 1200 100 Fergus Falls, Minn. C. L. Jaren
KI	FJR 1300 500 Portland, Ore.		KGDM 1100 1000 Stockton, Calif. E. F. Peffer, 42 S. Calif. St.
	2 Lumbermen's Bldg. FJZ 1370 100 Fort Worth, Texas		KGDY 1340 250 Huron, S. D.
	exas Hotel		Voice of S. D., Inc., 347 Dakota Ave.
	FKA 880 590 Greeley, Colo.		KGEK 1200 100 Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.
K	FKU 1220 1000 Lawrence, Kans.		KGER 1360 1000 Long Beach, Calif.
UI	niversity of Kansas		435 Pine Ave.

	KGEZ 1310 100 Kalispell, Mont. Donald C. Treloar, Box 1		KIDO 1350 1000 Boise Idaho Hotel Bolse
	KGFF 1420 100 Shawnee, Okla.		KIDW 1420 100 Lamar Colo.
	9th & BellSts. KGFG 1370 100 Oklahoma City, Okla.		Lamar Broadcasting Co., Box 688 KIEM 1210 100 Eureka, Calif.
	Okla, Broadcasting Co., 1113 N. Broadway		Redwood Bdcstg. Co., Vance Hotel
	KGFI 1500 100 Corpus Christl, Texas Eagle Broadcasting Co., Inc., P. O. Box 1508		KIEV 850 250 Glendale, Calif. Cannon System, Ltd., Glendale Hotel
	KGFJ 1200 100 Los Angeles, Calif.		KINY 610 250 Juneau, Alaska
	Ben S. McGlashan, 1417 S. Figueroa. KGFK 1500 100 Moorhead, Minn.		Northwest Advertising Co.
	722 Center Ave.		KIT 1310 100 Yakima, Wash.
	KGFL 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St.		KIUJ 1310 100 Santa Fe, N. Mex. J. H. Speck
	KGFW 1310 100 Kearney, Neb.		KIUL 1210 100 Garden City, Kans. Garden City Brdestg. Co.
	KGFX 530 200 Pierre, S. D. Dana McNeil, 510 Summit Ave.		KIUN 1420 100 Pecos, Texas
	KGGC 1420 100 San Francisco, Calif.		J. H. Hawkins & B. H. Hubbs KJBS 1070 500 San Francisco, Calif.
	230 Eddy St. KGGF 1010 1000 Coffeyville, Kans.		1380 Bush St. KJR 970 5000 Seattle, Wash.
	Coffeyville Journal Bldg.		Skinner Bldg.
	KGGM 1230 250 Albuquerque, N. M. Franciscan Hotel		KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
	KGHF 1320 500 Pueblo, Colo. C. P. Ritchie, 113 Broadway		KLO 1400 500 Ogden, Utah 405 25th St.
	KGHI 1200 100 Little Rock, Ark.		KLPM 1240 250 Minot, N. D.
	Arkansas Brdestg. Co., Marion Hotel KGHL 780 1000 Billings, Mont.		John B. Cooley, Box 707 KLRA 1390 1000 Little Rock, Ark.
	5th & N. Broadway		Arkansas Broadcasting Co., Box 550
	KGIR 1360 1000 Butte, Mont. KGIR, Inc., 121 W. Broadway		KLS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
	KGIW 1420 100 Alamosa, Colo.		KLUF 1370 100 Galveston, Texas
	Leonard E. Wilson, 326 N. Commercial		Geo. R. Clough, Buccaneer Hotel
	KGIX 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656		KLX 880 1000 Oakland, Calif. Tribune Tower
	KGKB 1500 100 Tyler, Texas 115 S. College	L	KLZ 560 1000 Denver, Cole. Shirley-Savoy Hotel
	KGKL 1370 100 San Angelo, Texas		KMA 930 1000 Shenandoah, Iowa
	KGKL, Inc., St. Angelus Hotel KGKO 570 500 Wichita Falls, Texas		Ear lE. May Seed & Nursery Co. KMAC 1370 100 San Antonio, Texas
	9th St. & Indiana Ave.		W. W. McAllister, Blue Bonnet Hotel
	KGKY 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517 1/2 Broadway		KMBC 950 1000 Kansas City, Mo. Pickwick Hotel
	KGMB 1320 1000 Honolulu, T.H.		KMED 1310 100 Medford, Ore.
	Honolulu Broadcasting Co., Box 2663 KGNF 1430 1000 North Platte, Neb.		Mrs. W. J. Virgin, Sparta Bldg. KMJ 580 1000 Fresno, Calif.
	Great Plains Broadcasting Co., W. 12th St.		Van Ness & Calaveras Sts.
	KGNO 1340 250 Dodge City, Kans. First Natl. Bank Bldg.		KMLB 1200 100 Monroe, La. Francis Hotel
	KGO 790 7500 San Francisco, Calif. 111 Sutter St.		KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.
	KGRS 1410 1000 Amarillo, Texas		KMO 1330 250 Tacoma, Wash.
	Plains Radio Broadcasting Co. KGU 750 2500 Honolulu, T. H.		KMO, Inc., Hotel Winthrop KMOX 1090 50000 St. Louis, Me.
	Kaplolani at South St. KGVO 1260 1000 Missoula, Mont.		401 S. 12th St. KMPC 710 500 Beverly Hills, Calif.
	Mosbys, Inc., 240 N. Higgins		9631 Wiltshire Blvd.
	KGW 620 1000 Portland, Ore. 325 Adler St.		KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.
	KGY 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way		KNOW 1500 100 Austin, Texas Norwood Building
	KHJ 900 1000 Los Angeles, Calif. 7th at Bixel		KNX 1050 50000 Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.
	KHQ 590 1000 Spokane, Wash.		KOA 830 50000 Denver, Colo.
	Sprague Ave. & Post St. KHSL 950 250 Chico, Calif.		General Electric Co., 1370 Krameria St. KOAC 550 1000 Corvallis, Ore.
	Golden Empire Brdcstg. Co.		Oregon State Agricultura l College
	KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co.		KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 667
	KID 1320 250 Idaho Falis, Idaho		KOH 1380 500 Reno, Nev.
	Park Ave. & Broadway		440 N. Virginia St.

KOIL 1260 1000 Council Bluffs, Iowa		90 250 Pocatello, Idaho
		ice Corp., 141 S. 6th Ave. 30 50000 Salt Lake City. Utah
KOIN, Inc., New Heathman Hotel	Vermont B	Bldg.
KOL 1270 1000 Seattle, Wash. Northern Life Tower	Oregon Ra	
KOMA 1480 5000 Oklahoma City, Okla Biltmore Hotel		30 250 Des Moines, Iowa s Register & Tribune
KOMO 920 1000 Seattle, Wash.		10 2500 Sioux Falls, S. D. Brdcst. Assn., Carpenter Hotel
KONO 1370 100 San Antonio, Texas	KSTP 14	60 10000 St. Paul, Minn.
KOOS 1200 250 Marshfield, Ore.	KSUN 12	
KORE 1420 100 Eugene, Ore.	KTAB 5	60 1000 San Francisco, Calif.
KOTN 1500 100 Pine Bluff, Ark.	KTAR 6	20 1000 Phoenix, Ariz.
KOY 1390 500 Phoenix, Arlz.	KTAT 12	40 1000 Fort Worth, Texas
621 N. Central Ave. KPAC 1260 500 Port Arthur, Texas	KTBS 14	50 1000 Shreveport, La.
Port Arthur College KPCB 710 100 Seattle, Wash.	KTF 1 12	40 1000 Twin Falls, Idaho
Tower Bldg. KPJM 1500 100 Prescott. Ariz.	KTHS 10	adcasting Corp., Box 521 60 10000 Hot Springs, Ark.
Scott & Sturm, P.O. Box 782	KTM 7	of Commerce, Box 886 80 500 Los Angeles, Calif.
Calcasieu Brdcstg. Co.	214 S. Veri	
111 Sutter St.		ny & Bates 90 1000 Houston, Texas
Pillar Of Fire, 1845 Champa St.		oadcasting Co., Rice Hotel 50 1000 San Antonio, Texas
585 E. Colorado St.	Southwest	Broadcasting Co., Plaza Hotel
KPQ 1500 100 Wenatchee, Wash. KPQ Bldg.	P.O. Box	1976
KPRC 920 1000 Houston, Texas 2204 Shell Bidg.	National F	Bank of Tulsa Bldg.
KQV 1389 500 Pittsburgh, Pa. KOV Broadcasting Co., Investment Bldg.		20 1000 Seattle, Wash. & Spring St.
KQW 1010 1000 San Jose, Calif.	KUJ, Inc.	70 100 Walla Walla, Wash. , Marcus Whitman Hotel
KRE 1370 100 Berkeley, Calif.	KUMA 14 Dr. A. H.	20 100 Yuma, Ariz. Schermann, Box 267
KREG 1500 100 Santa Ana, Calif.	KUOA 12 KUOA, In	260 1000 Fayetteville, Ark. ac., Washington Hotel
	KUSD 8	90 500 Vermillion, S. D. of South Dakota
KRKD 1120 1000 Los Angeles, Calif.	KVI 5	70 1000 Tacoma, Wash.
KRKO 1370 50 Everett, Wash.	KVL 13	70 100 Seattle, Wash.
KRLC 1420 100 Lewiston, Idaho	KVOA 12	, 5th and Virginia St.
KRLD 1040 10000 Dallas, Texas	KVOD	l. Bank Bldg. 20 500 Denver, Colo.
KRMD 1310 100 Shreveport, La.	KV00 1	140 25000 Tulsa, Okia.
Jefferson Hote 1 KRNT 1320 500 Des Moines, Iowa	Wright Bi	_
Des Moines Register Tribune KROC 1310 100 Rochester, Minn.	KVOS 1	cchange Bldg. 200 100 Bellingham, Wash.
Southern Minnesota Broadcasting Co.	115 W. M	agnolia St.
1803 Franklin St.	Ardmoreit	e Pub. Co., Inc.
Radio Sales Corp., Washington Athletic Club	W. B. Gre	enwald
KSAC 580 500 Manhattan, Kans. State College of Agriculture	KWEA 12 Spring & 1	
	- Dring & 1	annin Des.
KSCJ 1330 1000 Sloux City, Iowa Perkins Bros. Co., 415 Douglas St.	KWG 1	
	Mona Motor Oil Co. KOIN 340 1000 Pertland, 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 Bidg KONO 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel KOOS 1200 250 Marshfield, Ore. H. H. Hanseth, Hall Bidg. KORE 1420 100 Eugene, Ore. 733 Willamette St. KOTN 1500 100 Pine Biuff, Ark. Universal Brdestg. Corp., Hotel Pines KOY 1390 500 Pert Arthur, Texas Port Arthur College KPCB 710 100 Seattle, Wash. Tower Bidg. KPJM 1500 100 Prescott, Arlz. Scott & Sturm, P. O. Box 782 KPLC 1500 100 Lake Charles, La. Calcasieu Brdestg. Co. KPO 680 50000 San Francisce, Callf. 11 Sutter St. KPOF 880 5000 Denver, Colo. Pillar Of Fire, 1845 Champa St. KPPC 1210 50 Pasadena, Callf. 585 E. Colorado St. KPQ 1500 100 Wenatchee, Wash. KPQ Bidg. KPRC 920 1000 Houston, Texas 204 Shell Bidg. KQW 1389 500 Pittsburgh, Pa. KQW Broadcasting Co., Investment Bidg. KQW 1010 1000 San Jose, Callf. 87 E. San Antonio St. KRE 1370 100 Berkeley, Callf. 815 Spring Arcade Bidg. KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave. KRKD 1120 1000 Los Angeles, Callf. 815 Spring Arcade Bidg. KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave. KRKD 1310 100 Shreveport, La. 180 Seranklin St. KRSC 1120 100 Seattle, Wash. Router Minnesota Broadcasting Co. KRWM 1310 100 Shreveport, La. 180 Seranklin St. KRSC 1120 100 Ookland, Callf. 180 Franklin St. KRSC 1120 100 Ookland, Callf. 180 Sranklin St. KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club	Mons 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 Bidg KONO 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel KOSO 1200 250 Marshfield, Ore. H. H. Hanseth, Hall Bidg. KORE 1420 100 Eugene, Ore. 733 Willamette St. KOTN 1500 100 Pine Biuff, Ark. Universal Brdostg. Corp., Hotel Pines KOY 1390 500 Phoenix, Arlz. 621 N. Central Ave. KPAC 1260 500 Port Arthur, Texas Port Arthur College KPCB 710 100 Seattle, Wash. Tower Bidg. KPJM 1500 100 Lake Charles, La. Calcasieu Brdostg. Co. KYBO 140 Box 1642 KTAR 5 Chamber C KTHS 10 Scott & Sturm, P. O. Box 782 KPLC 1500 100 Lake Charles, La. Calcasieu Brdostg. Co. KPO 680 50000 San Francisco, Calif. 111 Sutter St. KPOF 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St. KPOF 880 5000 San Francisco, Calif. 112 Sutter St. KPOF 920 1000 Houston, Texas 2204 Shell Bidg. KYJM 120 Son Jose, Calif. 87 E. San Antonio St. KRQ 1360 100 San Jose, Calif. 87 E. San Antonio St. KRG 110 100 San Jose, Calif. 87 E. San Antonio St. KRG 1120 1000 Lewiston, Idaho H. E. Studebaker KRLD 1420 100 Calif. KNO 1310 100 Shreveport, La. Jefferson Hotel KNO 1310 100 Rechester, Minn. Southern Minnesota Broadcasting Co. KNO 1310 100 Seattle, Wash. RROC 1310 100 Rechester, Minn. Southern Minnesota Broadcasting Co. KNO 1310 100 Seattle, Wash. KROC 1310 100 Rechester, Minn. Southern Minnesota Broadcasting Co. KNO 1310 100 Seattle, Wash. RROC 1310 100 Seattle, Wash. KNO 1310 100 Seattle, Wash. KNO 1310 100 Seattle, Wash. KNO 1310 Washington Athletic Club

	KWK 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase	1	WAAW 660 500 Omaha, Neb. Omaha Grain Exchange
	KWKC 1370 100 Kansas City, Mo.		WABC 860 50000 New York, N. Y.
1	39th & Main Sts.	1 1	485 Madison Ave.
	KWKH 1100 10000 Shreveport, La.		WABI 1200 100 Bangor, Maine
	Spring & Fannin Sts.		First Universalist Society Park St.
	KWLC 1270 100 Decorah, Iowa		WABY 1370 100 Albany, N. Y.
	Luther College		Strand Theatre Bldg.
	KWSC 1220 1000 Pullman, Wash. State College of Washington	1 1	WACO 1420 100 Waco, Texas Amicable Bldg.
	KWTN 1210 100 Watertown, S. D.		WADC 1320 1000 Akron, Ohlo
	Citizens Bank Bldg.	1 1	Allen T. Simmons, P. O. Box 29
	KWTO 560 5000 Springfield, Mo.		WAGF 1370 100 Dothan, Ala.
	KGBX Inc.		Houston Hotel
	KWYO 1370 100 Sheridan, Wyo.		WAGM 1420 100 Presque Isle, Me.
	Big Horn Brdestg. Co.		Aroostook Broadcasting Corp., Main St.
1	KXA 760 250 Seattle, Wash.		WAIM 1200 100 Anderson S. C. Wilton E. Hall
-	American Radio Tel. Co., 218 Bigelow Bldg.		WAIU 640 500 Columbus, Ohio
	KXL 1420 100 Portland, Ore.	1 1	Deshler-Wallick Hotel
	KXL Broadcasters, Multnomah Hotel		WALA 1380 500 Mobile, Ala.
	KXO 1500 100 El Centro, Calif. F. M. Bowles, Box 140		Battle House
	KXRO 1310 100 Aberdeen, Wash.		WALR 1210 100 Zanesville, Ohio
	KXRO, Inc., Hotel Morck.		First Trust & Savs. Bank Bldg.
	KXYZ 1440 1000 Houston, Texas	1	WAML 1310 100 Laurei, Miss.
-	Fannin & Rusk Sts.		Southland Radio Corp., Box 26 WAPI 1140 5000 Birmingham, Ala.
	KYA 1230 1000 San Francisco, Calif. 988 Market St.	1	Protective Life Bldg.
_			WARD 1400 500 Brooklyn, N. Y.
	KYW 1020 10000 Philadelphia, Pa. 1622 Chestnut Street		427 Flatbush Ave., Ext.
	NAA 690 1000 Ariington, Va.		WASH 1270 500 Grand Rapids, Mich.
	United States Navy		Grand Rapids Natl. Bank Bldg.
	RDN 706 500 San Salvador, E. S.		WATR 1190 100 Waterbury, Conn.
	Republic of El Salvador		WATR Co. Inc. 47 Grand St. WAVE 940 1000 Louisville, Ky.
	TGW 565 10000 Guatemala, Gua.	1	WAVE, Inc., 1525 Brown Hotel
	Gobierno de Guatemala		WAWZ 1350 500 Zarephath, N. J.
1	TGX 1400 150 Guatemala City	1	Pillar of Fire.
	TIEP 850 500 San Jose, C. R.		WAZL 1420 100 Hazleton, Pa.
1	TIEP 850 500 San Jose, C. R.		Hazleton Broadcasting Service, Inc.
	TIFA 1050 75 San Jose, C. R.		WBAA 890 1000 West Lafayette, Ind.
			Purdue University
	TIFS 1441 7.5 Cartago, C. R.	1	WBAL 1060 10000 Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.
	TIGA 1014 30 Cartago, C. R.		WBAP 800 50000 Fort Worth, Texas
	TIGA 1014 30 Cartago, C. R.		Blackstone Hotel
	TIGH 1000 500 San Jose, C. R.		WBAX 1210 100 Wilkes-Barre, Pa.
			John H. Stenger, Jr., 70 S. Main St.
1	TIRC 1100 75 San Jose, C. R.		WBBC 1400 500 Brooklyn, N. Y.
	Perry Girton, Apdo. 225 TIRH 930 50 San Jose, C. R.		552-54 Atlantic Ave. WBBL 1210 100 Richmond, Va.
	TIRH 930 50 San Jose, C. R.	1	1627 Monument Ave.
	VAS 685 2090 Glace Bay, N. S.		WBBM 770 50000 Chicago, III.
	Canadian Marconi Co., Ltd.		WBBM Broadcasting Corp., Wrigley Bldg.
	VE9EK 1185 10 Montmagny, Que.		WBBR 1300 1000 Brooklyn, N. Y.
	J. A. Marquis, P. O. Box 52		124 Columbia Heights
	VOAC 1065 40 St. John's, Nfld.		WBBZ 1200 100 Ponca City, Okla.
			C. L. Carrell, 407 W. South Ave.
]	VOAS 940 100 St. John's N. F. Ayre & Sons, Ltd., Water St.		WBCM 1410 500 Bay City, Mich. James E. Davidson, Hotel Wenonah
	VOGY 840 400 St. John's, N. F.		WBEN 900 1000 Buffaio, N. Y.
	Newfoundland Hotel		WBEN, Inc., Hotel Statler
	VONF 950 5000 St. John's N. F.		WBEO 1310 100 Marquette, Mich.
	Dominion Broadcasting Co., Ltd., Box 135		146 W. Washington St.
	VOWR 681 500 St. John's, N. F.		WBIG 1440 500 Greensboro, N. C.
	Wesley United Church, Box 157		Box 408
1	WAAB 1410 500 Boston, Mass.	1	WBNO 1200 100 New Orleans, La. Hotel New Orleans
	21 Brookline Ave.		WBNS 1430 500 Columbus. O.
	WAAF 920 500 Chicago, III. Palmer House		33 N. High St.
	WAAT 940 500 Jersey City, N. J.		WBNX 1350 250 New York, N. Y.
1	Bremer Broadcasting Corp., 50 Journal Sq.		260 E. 161st St.

	Lumas as sees ' No Vol. N. V.		WCRW 1210 100 Chicago, III.
	WBOQ 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	1	Clinton R. White, 2756 Pine Grove Ave.
	WBOW 1310 100 Terre Haute, Ind.		WCSC 1360 500 Charleston, S. C.
	Banks of Wabash, Inc., 19 Beach Block		Francis Marion Hotel
	WBRB 1210 100 Red Bank, N. J. 63 Broad St.	}	WCSH 940 1000 Portland, Me. 579 Congress St
	WBRC 930 1000 Birmingham, Ala.	—	WDAE 1220 1000 Tampa Fla.
. 4	Bankhead Hotel	1	Tampa Times Co., Tampa Terrace
	WBRE 1310 100 Wilkes-Barre, Pa.		WDAF 610 1000 Kansas City, Me.
	Louis G. Baltimore, 16 N. Main		1729 Grand Ave.
	WBSO 920 500 Babson Park, Mass.		WDAG 1410 1000 Amarillo, Texas
	Drawer B		Box 306 WDAH 1310 100 El Paso, Texas
	WBT 1080 50000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.	ł	Box 1976
	WBTM 1370 100 Danville, Va.		WDAS 1370 100 Philadelphia, Pa.
	Miller Bldg.		WDAS Brdcstg. Co., Inc., Broadwood Hotel
	WBZ 990 50000 Boston, Mass.	1	WDAY 940 1000 Fargo, N. D.
	Hotel Bradford WBZA 990 1000 Springfield, Mass.		WDAY, Inc., Black Bldg., 118 Broadway WDBJ 930 1000 Roanoke, Va.
	Hotel Kimball		Times World Corp., P. O. Box 150
	WCAC 600 500 Storrs, Conn.		WDBO 580 1000 Orlando, Fla.
	Connecticut State College		555 N. Orange Ave.
1	WCAD 1220 500 Canton, N. Y.	1	WDEL 1120 250 Wilmington, Del.
	St. Lawrence University WCAE 1220 1000 Pittsburgh, Pa,		WDEL, Inc., 10th and King Sts. WDEV 550 500 Waterbury, Vt.
	6th Ave. & Smithfield St.		Harry C. Whitehill, Stowe St.
	WCAL 1250 1000 Northfield, Minn.		WDGY 1180 1000 Minneapolis, Minn.
	St. Olaf College		Dr. Geo. W. Young, 909 W. Broadway WDNC 1500 100 Durham. N. C.
1	WCAM 1280 500 Camden, N. J.	1	WDNC 1500 100 Durham, N. C. Washington Duke Hotel
	City of Camden, City Hall WCAO 600 500 Baltimore, Md.		WDOD 1280 1000 Chattanooga, Tenn.
	WCAO 600 500 Baltimore, Md. 811 W.Lanvale St.		WDOD Broadcasting Corp., Hotel Patten
	WCAP 1280 500 Asbury Park, N. J.	,	WDRC 1330 1000 Hartford, Conn.
	Convention Hall		WDRC, Inc., Corning Bldg., 11 Asylum St. WDSU 1250. 1000 New Orleans, La.
	WCAT 1200 100 Rapid City, S. D. South Dakota State School of Mines	1	WDSU Inc., Hotel Monteleone
	WCAU 1170 50000 Philadelphia. Pa.		WDZ 1070 100 Tuscola, III.
	WCAU Broadcasting Co., 1622 Chestnut		James L. Bush, Star Store Bldg.
	WCAX 1200 100 Burlington, Vt.	1	WEAF 660 50000 New York, N. Y. 30 Rockefeller Plaza
	203 College St. WCAZ 1070 100 Carthage, III.		WEAN 780 500 Providence, R. I.
	97 1/2 Adams St.		New Crown Hotel
	WCBA 1440 500 Allentown, Pa.	1	WEBC 1290 1000 Superior, Wis. Spaulding Hotel, Duluth, Minn.
	B. Bryan Musselman, 39-41 10th St.		WEBQ 1210 100 Harrisburg, III.
	WCBD 1080 5000 Waukegan, III. 75 E. Wacker Drive, Chicago	1	100 E. Poplar St.
	WCBM 1370 100 Baltimore, Md.		WEBR 1310 100 Buffalo, N. Y.
	Keith Theatre Bldg.		Howel Broadcasting Co., Inc., 735 Main
1	WCBS 1210 100 Springfield, III.	1	WEDC 1210 100 Chicago, III. Emil Denemark, 3860 Ogden Ave.
	WCBS, Inc., 208 1/2 S. 5th.		WEED 1420 100 Rocky Mount, N. C.
	WCCO 810 50000 Minneapolis, Minn. Nicollet Hotel		Wm. Avera Wynne, Box 221
	WCFL 970 1500 Chicago, III.		WEEI 590 1000 Boston, Mass.
	666 Lake Shore Drive		182 Tremont St.
	WCHS 580 500 Charleston, W. Va. WOBU, Inc., Ruffner Hotel		WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn.
	WCKY 1490 5000 Covington, Ky.		WEHC 1420 100 Charlottesville, Va.
	6th & Madison Sts.		7th & Main Sts.
	WCLO 1200 100 Janesville, Wis.		WEHS 1420 100 Cleero, III.
	200 E. Milwaukee St.		WEHS, Inc., 6138 W. Cermak Rd. WELL 1420 100 Battle Creek, Mich.
	WCLS 1310 100 Jollet, III.	1	Enquirer News, 38 W. State St.
	WCLS, Inc., 301 E. Jefferson St. WCMI 1310 100 Ashland, Ky.		WENR 870 50000 Chicago, III.
	Ashland Broadcasting Co.		222 N. Bank Drive
	WCNW 1500 100 Brooklyn, N. Y.		WESG 850 1000 Elmira, N. Y. Mark Twain Hotel
	Arthur Faske, 1525 Pitkin Ave.		WEVD 1300 1000 New York, N. Y.
	WCOA 1340 500 Pensacola, Fla. San Carlos Hotel		Jewish Daily Forward, Hotel Claridge
	WCOC 880 500 Meridian, Miss.		WEW 760 1000 St. Louis, Mo.
	Box 603		St. Louis University, 221 N. Grand Blvd.
	WCOL 1210 100 Columbus, Ohio		WEXL 1310 50 Royal Oak, Mich.
	WCOL Inc., 30 N. High St.		212 W. 6th St.

WFAR 1309 1000 New York, N. Y. WHAP 1209 100 Rock Island, III. WHAP 1209 100 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave. 100 Shipman St. WHAP 1209 100 Greenville, S. C. Ind. Ind				1
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### WHAM 1200 100 South Bend, Ind. South Bend Tribune, 225 W. Coltax Ave.		Fifth Avenue Broadcasting Corp.		
WFAS 1210 100 White Plains, N. Y. Hotel Roger Smith		WFAM 1200 100 South Bend, Ind.		
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WFBC 1300 1000 Greenville, S. C. Imperial Hotel		WFAS 1210 100 White Plains, N. Y.		
Imperial Hotel WFBE 1200 100 Cincinnati, Ohio WFBE, Inc., Hotel Sinton WHBP 1370 100 Green Bay, Wis. WHBPY, Inc., Bellin Bidg. WHBPY 1200 100 Green Bay, Wis. WHBPY, Inc., Bellin Bidg. WHBPY 1370 100 Calumet, Mich. Box 643 WHBPY, Inc., Bellin Bidg. WHBPY, Inc., Bellin Bi				Press Publishing Co., Press Bldg.
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WGPC 1420 100 Albany, Ga. Rylander Theatre Bldg. Rylander Theatre Bldg. Ilth & Topeka Blvd. WiBX 1200 100 Utics, N. Y. Rand Bldg. WGST 890 500 Atlanta, Ga. Ansley Hotel WGY 790 50000 Schenectady, N. Y. I 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. WHAS 1300 500 Troy, N. Y. WHB 860 1000 Kansas City, Mo. WIP 860 1000 Kansas City, Mo. WIP 810 100 Philadelphia, Pa. WHAS 860 1000 Kansas City, Mo. WIP 610 500 Philadelphia, Pa.				WIBU 1210 100 Poynette, Wis.
Rylander Theatre Bldg.		•		Wm. C. Forrest, R. F. D. No. 3
WGR 550 1000 Buffalo, N. Y. Rand Bldg. WiBX 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg. WiCX 890 500 Atlanta, Ga. Ansley Hotel WGY 790 50000 Schenectady, N. Y. Southern Conn. Broadcasting Corp. Wil 1200 100 St. Louis, Mo. Melbourne Hotel WHA 940 2500 Madison, Wis. University of Wisconsin University of Wisconsin University of Illinois WHAM 1150 50000 Rochester, N. Y. 100 Carlson Road WILL 890 1000 Urbana, III. University of Illinois WHAS 820 50000 Louisville, Ky. 300 W Liberty St. WIND 560 1000 Gary, Ind. 504 Broadway WIND 1310 100 Mem York, N. Y. Public Ledger Bidg. WHAT 1310 100 Philadelphia, Pa. WIND 1300 1000 Miamii, Fla. Herad Bldg., Metropolis Pub. Co. WIP 610 500 Philadelphia, Pa.				WIBW 580 1000 Topeka, Kans.
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WHB Broadcasting Co., Scarritt Bldg.				
		WHE Broadcasting Co., Scarritt Bldg.		Gimbel Bidg.

WIRE 1400 500 Indianapolis, Ind. 540 N. Meridian St.	WKJC 1200 100 Lancaster, Pa. 16 W. King St.
WIS 1010 1000 Columbia, S. C.	WKOK 1210 100 Sunbury, Pa.
Station WIS, Inc., 1811 Main St.	1150 N. Front St.
WISN 1120 250 Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc.	WKRC 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Alms
WJAC 1310 100 Johnstown, Pa.	WKY 900 1000 Oklahoma City, Okla.
WJAC, Inc., Locust St. WJAG 1060 1000 Norfolk, Neb.	Plaza Court Bldg. WKZO 590 1000 Kalamazoo, Mich.
Norfolk Daily News	John E. Fetzer, Burdick Hotel
WJAR 890 500 Providence, R. I.	WLAC 1470 5000 Nashville, Tenn.
Outlet Co., Weybossett St. WJAS 1290 1000 Pittsburgh, Pa.	WLAP 1420 100 Lexington, Ky.
Chamber of Commerce Bldg.	Main & Esplanade
WJAX 900 1000 Jacksonville, Fla. City of Jacksonville	WLB 1250 1000 Minneapolis, Minn. University of Minnesota
WJAY 610 500 Cleveland, Ohio	WLBC 1310 50 Muncle, Ind.
1224 Huron Road	D. A. Burton, Anthony Bldg. WLBF 1420 100 Kansas City, Kans.
WJBC 1200 100 Bloomington, III. Kaskaskia Broadcasting Co.	WLBF Broadcasting Co., Huron Bldg.
WJBK 1500 100 Detroit, Mich.	WLBL 900 2500 Stevens Point, Wis.
6559 Hamilton Ave. WJBL 1200 100 Decatur, Hi.	Wisconsin Dept. of Agriculture and Markets WLBZ 620 500 Banger, Me.
Gushard Bldg.	Maine Broadcasting Co., Inc., 100 Main
WJBO 1420 100 Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.	WLEU 1420 100 Erie, Pa. Leo J. Omelian
WJBW 1200 100 New Orleans, La.	WLLH 1370 100 Lowell, Mass.
C. C. Carlson, Godehaux Bldg.	Albert S. Moffat, Box D WLNH 1310 100 Laconia, N. H.
WJBY 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	WLNH 1310 100 Laconia, N. H. 523 Main St.
WJDX 1270 1000 Jackson, Miss.	WLS 870 50000 Chleago, III.
Lamar Life Bidg. WJEJ 1210 100 Hagerstown, Md.	1230 W. Washington Blvd. WLTH 1400 500 Brooklyn, N. Y.
Lovely Dame Bldg.	305 Washington St.
WJIM 1210 100 Lansing, Mich. Capital City Brdcstg. Co.	WLVA 1200 100 Lynchburg, Va. 915 Main St.
WIJD 1130 20000 Chicago III.	WLW 700 50000 Cincinnati, Ohio 1329 Arlington St.
WJJD, Inc., 201 N. Wells St. WJMS 1420 100 Ironwood, Mich.	WLWL 1100 5000 New York, N. Y.
WJMS, Inc., St. James Hotel	415 W 59th St. WMAL 630 250 Washington, D. C.
WJR 750 10000 Detroit, Mich. WJR, Inc., Fisher Bldg.	712—11th St., N. W.
WJSV 1460 10000 Washington, D. C. Earle Building	WMAQ 670 50000 Chicago, III. Merchandise Mart
WJTL 1370 100 Atlanta, Ga.	WMAS 1420 100 Springfield, Mass.
Oglethorpe University WJW 1210 100 Akron, Ohio	WMAS, Inc., 70 Chestnut St. WMAZ 1180 1900 Macon. Ga.
WJW, Inc., 41 S. High St.	211 Cotton Ave.
WJZ 760 50000 New York, N. Y. 30 Rockefeller Plaza	WMBC 1420 100 Detroit, Mich.
WKAQ 1240 1000 San Juan, P. R.	7310 Woodward Ave. WMBD 1440 500 Peorla, III.
Radio Corp. of Porto Rico, P. O. Box 358 WKAR 1040 1000 East Lansing, Mich.	114 N. Madison St.
Michigan State College	WMBG 1210 100 Richmond, Va. 914 W. Broad St.
WKBB 1500 100 East Dubuque, III. Richard W. Hoffman	WMBH 1420 100 Joplin, Mo.
WKBH 1380 1000 LaCrosse, Wis.	1334 Roosevelt St. WMBI 1080 5000 Chicago, III.
WKBH, Inc., 409 Main St.	153 Institute Place
WKBI 1420 100 Cicere, III. WKBI Inc., 6138 W. Cermak Road	WMBO 1310 100 Auburn, N. Y. WMBO, Inc., Metcalf Bldg.
WKBN 570 500 Youngstown, Ohlo	WMBQ 1500 100 Brooklyn, N. Y.
17 N. Champion St. WKBO 1200 100 Harrisburg, Pa.	Paul J. Gollhofer, 95 Leonard St. WMBR 1370 100 Jacksonville, Fla.
Penn Harris Hotel	F. J. Reynolds, Carling Hotel
WKBV 1500 100 Richmond, Ind. Knox Radio Corp., Box 308	WMC 780 1000 Memphis, Tenn. WMC, Inc., Hotel Gayoso
WKBW 1480 5000 Buffalo, N. Y.	WMCA 570 500 New York, N. Y.
Rand Bldg. WKBZ 1500 100 Muskegon, Mich.	WMEX 1500 100 Boston, Mass.
Karl L. Ashbacker & Sons	The Northern Corp., Hotel Manger
WKEU 1500 100 Griffin, Ga.	WMFD 1370 100 Wilmington, N. C.
Radio Station WKEU, 906 Hill St.	Richard Austin Dunlea

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		York Broadcasting Co., 15 S. Beaver St.		Larus & Bros Co., Inc., 22nd and Gary St.

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V	WSAI 1330 1000 Cincinnati, Ohio Crosley Radio Corp., 1329 Arlington	WTIC 1040 50000 Hartford, Conn. 26 Grove St.
	WSAJ 1310 100 Grove City, Pa.	WTJS 1310 100 Jackson, Tenn.
1 / 10	Grove City College, 418 Poplar St.	Sun Publishing Co., Sun Bldg.
V	WSAN 1440 500 Allentown, Pa. WSAN, Inc., 39 10th St.	WTMJ 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.
	WSAR 1450 250 Fall River, Mass.	WTMV 1500 100 East St. Louis, III.
A	Academy of Music Bldg.	Mississippi Valley Brdcstg. Co.
	WSAZ 1190 1000 Huntington, W. Va.	WTNJ 1280 500 Trenton N. J.
	WSAZ, Inc., P. O. Box 729 WSB 740 50000 Atlanta, Ga.	WTOC 1260 1000 Savannah, Ga.
	Atlanta Journal, 7 N. Forsyth St.	Savannah Brdestg. Co., De Soto Hotel
	WSBC 1210 100 Chicago, III.	WTRC 1310 50 Elkhart, Ind.
	Gene T. Dyer, 1258 S. Michigan Ave.	Truth Pub. Co., Inc., Hotel Elkhart WVFW 1400 500 Brooklyn, N. Y.
	WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WVFW 1400 500 Brooklyn, N. Y. Paramount Brdestg. Co., 1 Nevins St.
	WSFA 1410 500 Montgomery, Ala.	WWAE 1200 100 Hammond, Ind.
	Jefferson Davis Hotel	402 Hammond Bldg.
	WSGN 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel	WWC 1420 1000 Spartanburg, S. C. Virgil V. Evans, Ravenal & Avant St.
	WSIX 1210 100 Springfield, Tenn.	WWJ 920 1000 Detroit, Mich.
6	338 Tire & Vulcanizing Co.	Evening News Assn., 616 Lafayette Bivd.
	WSJS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall	WWL 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel
	WSM 650 50000 Nashville, Tenn.	WWNC 570 1000 Asheville, N. C.
3	301—7th Ave. No.	Citizen Brdcstg. Co., Inc., Flatiron Bldg.
[]	WSMB 1320 1000 New Orleans, La. WSMB, Inc., Maison Blanche Bldg.	WWPA 850 250 Clarion, Pa.
	WSMK 1380 200 Dayton, Ohio	WWRL 1500 100 Woodside, N. Y.
v	WSMK Inc., Loew Theatre Bldg.	413058th St.
[v	WSOC 1210 100 Charlotte, N. C. WSOC, Inc., Box 730	WWSW 1500 100 Pittsburgh, Pa. Hotel Schenley
V	WSOC, Inc., Box 730 WSPA 920 1000 Spartanburg, S. C.	WWVA 1160 5000 Wheeling, W. Va.
v	VirgilV. Evans, Ravenel and Avant St.	Hawley Bldg.
l ly	WSPD 1340 1000 Toledo, Ohio	WXYZ 1240 1000 Detroit, Mich. Madison Theatre Bldg.
	Foledo Broadcasting Co., 505 Jefferson WSUI 880 500 Iowa City, Iowa	W1XBS 1530 1000 Waterbury, Conn.
s	State University of Iowa	61 Leavenworth St., Amer. Republican, Inc.
1 (2	WSUN 620 1000 St. Petersburg, Fla. Chamber of Commerce	W2XR 1550 1000 Long Island City, N. Y. Scientific Brdcstg. Serv., 41 Park Row, N. Y.
	WSVA 550 500 Staunton, Va.	W6XA i 1550 1000 Bakersfield, Calif.
N	Marion K. Gilliam	Pioneer Mercantile Co. W9XBY1530 1000 Kansas City, Mo.
	WSVS 1370 50 Buffalo, N. Y. 566 E. Delavan Ave.	W9XBY 1530 1000 Kansas City, Mo. First National Television Inc.
	WSYB 1500 100 Rutland, Vt.	XEA 1060 125 Guadalajara, Jal.
	Philip Weiss Music Co., 80 West St.	Alberto Palos Souza, Apdo. 197 XEAA 920 200 Mexicall, B. C.
	WSYR 570 250 Syracuse, N. Y. E. Onondaga & S. Warren Sts.	Carlos Blando, Apto. 42
	WTAD 900 500 Quincy, III.	XEAF 1010 250 Nogales, Son.
	Illinois Brdcstg. Corp., State and 6th	Francisco G. Elias, Hote Central XEAI 1240 100 Mexico City, D. F.
	WTAG 580 500 Worcester, Mass.	Carlos Gonzales Caballero, Insurgentes 366
V	WTAL 1310 100 Tallahassee, Fla.	XEAJ 1310 15 Cazaca, Cam.
	Florida Capitol Broadcasters, Inc.	Enrique M. Crihuela, 3a, Guerroro 18 XEAM 960 50 Nuevo Laredo, Tams.
	WTAM 1070 50000 Cleveland, Ohio	XEAM 960 50 Nuevo Laredo, Tams. Edificio Banco Longoria
V	WTAQ 1330 1000 Eau Claire, Wis.	XEAO 560 250 Mexicali, B. C.
	Gillette Rubber Co., Hotel Eau Claire	Luis L. Castro, C. Altamirano 156 XEAW 960 10000 Reynosa, Tams.
	WTAR 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	Internacional Broadcasting Co., S. A.
	WTAW 1120 500 College Station, Tex.	XEAZ 1420 7 Guanjuato, Gto.
A	Agricultural and Mechanical College	Antonio Zavala, Pasco de la Presa 85
	WTAX 1420 100 Springfield, III.	XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Apdo. 79-44
	WTAX, Inc., 416 E. Capito l Ave. WTBO 800 250 Cumberland, Md.	XEBC 730 5000 Agua Caliente, B. C.
A	Associated Brdcstg. Corp., Box 794	Alberto V. Aldrete
	WTCN 1250 1000 Minneapolis, Minn. Wesley Temple Bidg.	XEC 1310 50 Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza
	WTEL 1310 100 Philadelphia, Pa.	XECW 1310 10 Mexico City, D. F.
E	Broad & Erle Ave.	Maria Elena Bravo de Cordero Ave. Juarez 104
	WTFI 1450 500 Athens, Ga.	XED 1160 500 Guadalajara, Jal. Cia. Radiofonografica, Apdo. 197
, , ,	133 E. Washington St.	

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XEE 1210 50 Durango, Dgo.	ſ
 20 de Nov. 112 (Apdo. 148) XEFA 1180 500 Mexico City, D. F.	ŀ
Eduardo Limon Segui, Meditarraneo 236	
XEFB 1420 100 Monterrey, N. L.	ſ
 Jesus Quintanilla, P. O. Box 317 XEFC 1310 100 Merida, Yuc.	-
J. Molina Font. Calle 59, 517	-
XEFE 920 250 Laredo, Tams.	ı
 R. T. Carranza, Km. 4 Carretera Laredo Mt.	L
 XEFG 1100 250 Mexico City, D. F.	- 1
 Ricardo Gonzales Montero, Tepic 48	ŀ
XEFI 1440 250 Chihuahua, Chih.	- 1
 Feliciano Lopez Isles, Ap. 157 XEFJ 1230 100 Monterrey, N. L.	ŀ
XEFJ 1230 100 Monterrey, N. L. R. Junco de la Vega, P. O. Box 186	- 1
XEFL 1160 500 Tijuana, B. C.	ı
 (P. O. Box 6, San Diego, Calif.)	L
XEFO 940 5000 Mexico City, D. F.	- 1
 Reforma No. 137	ŀ
XEFV 1210 100 Jaurez, Chih.	
 Cordova & Prieto, Ave. Ferrocaril 104	ŀ
XEFW 1310 250 Tampico, Tams. J. E. Martinez, Salvador Diaz Miron 6	- 1
XEFZ 1370 100 Mexico City, D. F.	ħ
 Manuel Zetina, Calzada Nonoalco 481	L
XEG 1270 500 Ensenada, B. C.	- 1
 Juan C. Chavez	ŀ
XEH 1150 250 Monterrey, N. L.	- 1
 Tarnava y Cia, P. O. Box 147	h
XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 545	
XEJ 1020 1250 Juarez, Chih.	ĩ
 Juan G. Buttner, P. O. Box 111	
XEK 990 100 Mexico City, D. F.	- 1
 Arturo Martinez, Jalapa No. 51	ŀ
XEKL 1240 500 Leon, Guan. 5 de Mayo 26	-
XELA 1240 50 Saltillo, Coah.	ŀ
Enrique Gomez, Chauhtemos 28 Sur	
XELC 740 100 Mexico City, D. F.	Γ
 Manuel Valdes Bravo, C. Central 112 XELM 1310 15 Mineral del Monte.	-
XELM 1310 15 Mineral del Monte, Jose Sanchez, Abesolo 1-A Dgo.	- [
 XELO 1110 10000 Piedras Negras, Coah.	۲
Piedras Negras Brdcstg. Co.	- 1
XEMA 1080 50 Tampico, Tams.	ı
 Manuel M. Pier, Aretsanos 10	L
XEMO 865 2500 Tijuana, B. C.	- [
 P.O.Box 202, San Diego, Calif. XEMX 1280 12 Mexico City, D. F.	H
Alfonzo T. Avales	-
 XEN 710 1000 Mexico City, D. F.	H
Cerveceria Modelo Ave. Juarez 77	- 1
	-

	Towns of cooks No Towns
	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 Pledras Negras, Coah.
	Piedras Negras Brdestg. Co., Madero 53 XES 990 250 Tampico, Tams.
	Fernando Sada, Box 309
	XET 690 500 Monterrey, N. L.
	P.O. Box 203, Hidalgo 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.
	Rafael M. 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.
	Av. Pino Susrez 9
	XEYZ 780 10000 Mexico City, D. F. Angel M. Diez, Ave. Juarez 48
	XEZ 630 500 Merida, Yuc.
	Jorge L. Falomeque, Estamores Ctd 214
	XEZZ 1370 100 San Luis Potosi, \$LP Emilio Delgado R. Ave. Chicosein 32
	XFB 1270 1000 Jalapa, Ver.
	Gobierno del Estado de Veracruz
	XFC 810 350 Aguas calientes, Ags. Gobierno del Estado de Aguas calientes
	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 Educacion Publica
	10-AK 1200 15 Stratford, Ont. M. I. Higgins, 151 Ontario St.
	10-BP 1200 25 Wingham, Ont.
	W.T. Cruickshank, Box 65
- 1	

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 1.875 and 2.000 megs. 3.900 and 4.000 megs. 7.000 and 7.300 megs. (Foreign only). 14.150 and 14.250 megs.

Amateur phones are heard between 1.875 and 2.000 megs. 1.622; 1.646; 2.102; 2.150; 2.190; 3.900 and 4.000 megs. 2.390.

CJRO, Middlechurch, Man., 6.150. CJRX, Middlechurch, Man., 11.720. COC, Havana, Cuba, 6.010. 8:30 a.m. to 12:30 p.m.; 4-7 p.m. Sat., 11:30-12:30.

COH, Havana, Cuba, 9.428. 5-6; 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	13:00	14:00	15:00	16:00
GMI	0.00	0.00	1.00				11.00		10.00	77100	10100	
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 W8XAL	DJB DJQ GSB GSD VE9CA VPD VK2ME W8XAL W9XF		DJB DJN RV15	DJB DJN GSF GSG JVM RV15 VK2ME VK3LR		DJB DJN GSF GSG JVM LKJI 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 W1XK	DJB DJE DJQ GSE GSG HAS3 PCJ PHI Pont. VE9CA VE9GW W!XK W3XAL W8XK	DJB DJE DJQ GSE GSG HVJ PCJ PHI Pont. RNE VE9GW W1XK W8XAL W8XAL W8XAL	DJB DJE DJQ GSB 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
	W8XAL W8XK	VE9GW W1XK W3XAU	VE9GW W1XK W2XAD W3XAU	RV59 VE9GW W1XK W2XE W3XAL W3XAU W8XK	RV59 VE9CA VE9GW W1XK W2XE W3XAU	PRF5 Rabat RV59 VE9GW W1XAL	GSD HAT4 HC2RL HJ1ABB HJ2ABC HJ4ABA IRA Pont Rabat VE9GW W1XAL W1XK W2XE W3XAU W8XXK W9XAA XEBT YV2RC YV3RC	W1XK W2XAF W2XE W3XAU W8XX W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CP5 DJA DJD DJN HIX HJ1ABB HP5B TIEP TIGPH VE9GW W1XAL W1XK W2XAF W2XAF W2XE W3XAU W8XK W9XAA	DJC HCJB HCZET HC2ET HC2EL HIX HJ1ABB HP5B OAX4D PRADO TIGPH VE9GW WIXK W2XAF W2XAF W3XAU W8XK W9XF W9XF W9XF W9XAA XEBT	PRADO TIGPH VE9GW W1XK W2XAF W2XAF W3XAU W8XK W9XAA W9XF XEBT YV2RC	CJRO CJRX COC HJ4ABL W1XAU W3XAU W9XAA W9XAA W9XAA

CP5, La Paz, Bolivia, 6.080. 8-9 p.m. CT1AA, Lisbon, Portugal, 9.590.

Tues., Thurs., Sat., 4:30-7 p.m. CTIGO, 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. Zeesen Germany, 9.560. 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, DJN, Zeesen, 9.540.3:45-7:15 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

N.Y. GBU, Rugby, England, 12.240, Phones

N.Y. GBW, Rugby, England Phones N. Y. 6-8 p.m. England, 14.440.

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. GSC. Daventry, England, 9.580.

6-8 p.m.; irreg. 10-11 p.m. GSD, Daventry, England, 11.750. 11:30 p.m. to 1:30 a.m.; 12:15-4:40 p.m.; irreg. 10-11 p.m.

GSE, Daventry, England, 11.860. 9 a.m. to noon.

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. HAS3 Hun-

Szekesfehervar, 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. Tues. 9:14-11:14 p.m.; Sun. 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.

HJ1ABB, Barranquilla Colombia. 6.447. 5-10 p.m. HJ1ABG, Barranquilla, Colombia 6.042, 7-10 p.m.

HJ2ABC, Cucuta, Colombia, 5.975. 6-9 p.m.

HJ3ABD, Bogota, Colombia, 7.406. "Colombia Broadcasting." 6-9 p.m. daily.

HJ4ABA, Medellin, Colombia. 11.720. 5 p.m.-? HJ4ABE, Medellin, Colombia, 5.900

7-11 p.m. HJ4ABL, "Ecos del Occidente," 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. F. Panama City, Panama, 14.545.

Phones Hialeah. HP5B, Panama City, Panama, 6.030. 7-10:30 p.m.

HP5J, Panama City, Panama, 9.590. 8-11 p.m.

HSJ, Bangkok Siam ,7.980 HVJ, Vatican City . 15.120. 5-5:15 a.m. daily except Sunday. Oc-

casionally from 10-10:30 a.m. IRA, Rome, Italy, ... Wed., Fri., 6-7:30 p.m. Rome, Italy, 6.070.

IRE, Rome, Italy, 11.810. 9-10 a.m. IS3, Bolling Field, Va., 6.412. I2RO, 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, Calif., 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.

Hilversum, Netherlands. 15.220: 7:30-10 a.m. daily exc. Tues., Wed.

PHI. Hilversum. Netherlands. 17.775: 7:30-10 a.m. daily exc. Tues., Wed.

We Want Your Advice

If you, as a friend of RADEX, will check the information below to show your desires, we will greatly appreciate it. In apportioning our space, it would help us materially to know which features appeal most to our readers and those they consider of least importance. Will you mark the items below from one to ten in the order in which you prefer them? The coupon need not be signed.

Descriptions of new sets.
Articles on how-to-build.
Photos of radio personalties.
 Stories about the radio stars.
Letters about DX from our readers.
Pictures and brief sketches of DXers.
Radio problems, questions and answers.
Photos of radio stations and transmitters.
Articles on aerials, grounds, noises, etc.
Stories of new radio devices and improvements.

1
Police 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., 7.520. Phones USA.
RNE, 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.
PUSO MORROW IISSP 5006

WOO, Ocean Gate, N. J., 4.273; 4.753; 8.560; 12.840. Phones Ships. Mass., 6.040 W1XAL, Boston, Mass., 6.040. Tues., Thurs., 7:30-9:30; Sunday, 5-7 p.m. W1XK, 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. RV59. Moscow, U.S.S.R., 5.996. W2XE, Wayne, N.J., 6.120. 6-11 p.m. 3-6 p.m. 11.830. 3-5 p.m. 15.270. 11 a.m. to 1 p.m. TIEP, San Jose, Costa Rica, 6.710. W3XAL, Boundbrook, N. J., 6.100. 7-10 p.m. Mon., Wed., Fri., 5-6 p.m. TIGPH, San Jose, Costa Rica, 17.780; daily 9-10 a.m.; Tues., Thurs., Sat., 3-4 p.m. 5.820. 7-10 p.m. VE9CA, Calgary, Alta., 6.030. W3XAU, Newton Sq., Pa., 6.060. Thurs., 9 a.m. to 2 a.m. Fri.; 8 p.m. to 11 p.m. Sun., noon to midn.; other days 9.590. Noon to 8 p.m. 9 a.m. to midnight. VE9GW, Bowmanville, Ont., 6.095. W8XAL, Mason, Ohio, 6.060. Ir-Sun., noon to 8 p.m.; Mon., Tues., regular. Wed., 2-11 p.m.; Thur., Fri., W8XK, Saxonburg, Pa., 6.140. 4:30 Sat., 6 a.m. to 11 p.m. p.m. to 12:30 a.m. 11.870. 4:30-10 p.m VE9HX, Halifax, N. S., 6.110. 15.210. 10 a.m .to 5:15 p.m. 5-11 p.m. VK1, Selfridge Field, Mich, 6.425. 21.540. 7 a.m. to 2 p.m.

VK2ME, Pennant Hills, Australia, W9XAA, Chicago, Ill., 6.080. Sun., 9.585. Mid. to 2 a.m. and 4:30-11:30 a.m. to 9 p.m. Tues. Thur. Sat. 4-12 p.m. Mon., Wed. Fri. 4:30-7 p.m. VK3LR, Melbourne, Australia, 9.580. W9XF, Downer's Grove, Ill., 6.100-Daily exc. Sat. and Sun., 4:30. VK3ME, Braybank, Australia 9.503. 8 p.m.; 9:30 p.m. to 2 a.m. Sunday, 4:30-7 p.m. and 9 p.m. Wed., Thurs., Fri., 5-6:30 a.m.; to 2 a.m. VPD, Suva, Fiji, 13.045, 12:30-1:30 XEBT, Mexico City, D. F., 6.010. Relays XEB, 10 a.m. to 11 p.m. VUB, Bombay, India, 9.565. Testing XECW, del Caballero del Santokan, Mexico, D. F., 5.980. 11-12 WTR, Albrook Field, Canal Zone, p.m. YNA, Managua, Nicaragua, 14.480. Phones Hialeah. YN1GG, 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: a. 4:30-10:30 p.m. YV5RMO, Maracaibo, Venezuela 5.850: 5:15-10:15 p.m. YV6RV, Vaiencia, Venezuela, 6.520. 'La Voz de Carabobo.' ZFB, St. George, Bermuda, 10.060.

ZFS, Nassua, Bahamas, 4.513.

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