# **NOVEMBER 1938**

# RADEX

The All-Wave Radio Log Authority

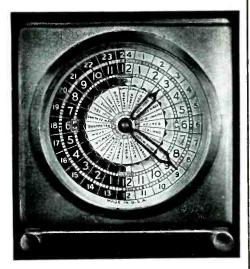


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The Monthly Frequency Checks
The Broadcasting Stations of the World
How to Dial the Foreign Stations

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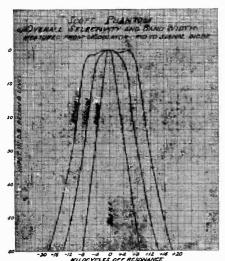
289 QUEEN ANNE ROAD

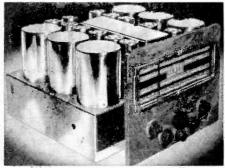
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# NOVEMBER 1, 1938



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PIFTEENTH YEAR

B. FRANCIS DASHIELL.

Technical

NUMBER 123

PAGE TAYLOR Editor

ASSOCIATE EDITORS
CARLETON LORD
Broadcast

RAY LAROCQUE Shortwave

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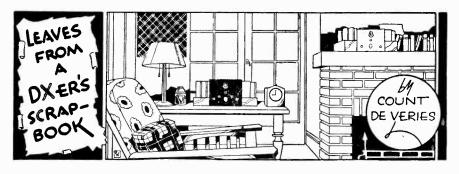
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# DIALING THE FOREIGN STATIONS

# PART TWO

THE DXer who roams the medium waves is one of the world's most difficult persons to please. No matter how much success he may have had with stations in his own country, he is constantly striving to better his record and reach new goals.

By the same token, he is never satisfied with his log of foreign stations. Whether he possesses two or twenty trans-oceanic veries, the thirst for foreigners continues unabated and he probably will never be entirely content.

Despite opinions to the contrary, the extent of a DXer's success with overseas stations rests largely upon his own shoulders. Listeners may contend that the fellows with big logs have favorable locations and sundry other advantages, but in the great majority of cases the success of a night owl is almost entirely dependent upon his own skill. With few exceptions, the number of foreign veries in his files is a direct tribute to his ability to get the most out of his receiver.

It is true that there are some listeners who are favorably situated in a suburban location, where signals are better received and noise is at a minimum. Also, other dial twisters

have been able to afford expensive receivers and impressive antenna installations. But the possession of a good location and fine equipment is no guarantee of successful foreign reception. If the listener doesn't know how and where and when to tune, he will be lucky indeed if he ever gets off his own continent.

Realizing that virtually every DXer has an insatiable appetite for overseas dialing, last month this section opened a discussion of the problems attending foreign reception. Intended for the neophyte who has yet to hear his first TA or TP, as well as for the old-timer who would like to increase his already-large log, the article tried to cover the fundamentals of good tuning procedure.

The respective arts of tuning and hearing were discussed in some detail, and an attempt was made to impress readers with the importance of developing these arts to the highest degree. Vagaries of reception were illustrated by examples of how signals from various directions were received in the United States. Tips were given on proven methods of dialing and of overcoming apparent obstacles. The matter of equipment was given

some attention, although it had been discussed more in detail in the September issue.

Considering the season of the year, particular attention was given to reception of stations in South America and the Antipodes. Selected lists of the more powerful stations on each continent were included in the text of the article, and problems peculiar to the reception of these stations received ample attention.

That the first part of this article was timely is shown by recent reception. As this issue goes to press, strong carriers from stations in New Zealand and Australia have been noticed. A couple of SA's have pushed their noses through the domestic barrage, and it begins to look as though predictions of a good season were more than justified.

By the time this, the November issue, reaches the newsstands, yet another cycle of foreign reception will have commenced. With the SA's and TP's at a peak towards the last of October, the stations in Asia and Europe will start their annual invasion of these shores, and so the spotlight is focussed on them.

#### The Europeans

For years DXers regarded reception of European BCB stations as quite impossible for American listeners. Despite the relative success of the international tests in 1926-27, it was argued that the difference in time created obstacles which could not be overcome. Suspicion was directed at the few who did report transmitters in France and Germany, and one prominent radio club official had a standing wager that no one could

tune in a medium-wave European station in his presence.

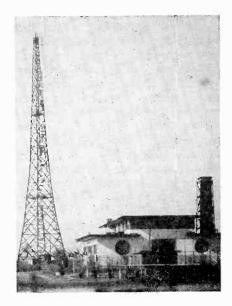
Then on December 2, 1932, DX history was made. Between 1 and 3 a. m., EST, scores of listeners dialed an unknown station on 914 kcys which was carrying an account of a cricket game being played in Australia. Great was the conjecture as to the identity of the station.

A few DXers dared to think that they had heard a European station, but they were in the minority. Tentatively the station was put down as either Canadian or American, although not a few listeners were convinced that they had heard 4RK at Rockhampton, Australia.

The cricket games continued through January and so did the play-by-play accounts — and also the guesses. The Editor of RADEX could not believe that the station could have been Paris, as a few readers reported, and voiced the opinion that it was some American station.

Finally the March 1933 RADEX confirmed the fact that the unknown station had indeed been Poste Parisien in Paris and that the play-by-play account had been re-created from cable dispatches. And so a series of cricket matches dispelled doubts about trans-Atlantic reception, provided the first instance of mass listening to a European station, and paved the way for many thrilling TA catches by American listeners.

During the 1933-34 and 1934-35 seasons which followed, DXers reaped a real harvest of TA's, logging stations in virtually every European country. The period of sunspot maximum activity caused TA reception to slacken off appreciably



The transmitter building and aerial tower of the Frankfurt-amMain station in Germany. This 25 kilowatt station works on 1195 kcs, and has been heard many times in this country.

during the 1935-36 and 1936-37 winters, only to come back stronger than ever last year.

With general reception conditions on a definite upgrade, the current season should find Europeans making a bannner showing on the logs of American DXers.

Tuning the Europeans

Coming up in November and continuing through December and January, trans-Atlantic medium-wave stations should provide excellent targets for listeners in the East and Middle West.

Although their signals are not as strong as those from South America, the TA's do manage to make a respectable showing along the Atlantic

Seaboard, particularly in the Middle Atlantic and New England States and in the Maritime Provinces. Farther West, signal strength ebbs out gradually, although DXers in Ohio, Indiana and Illinois frequently report exceptional results. By the time they have crossed the Great Plains, European signals are practically gone and they are seldom heard on the West Coast.

Trans-Atlantic stations may be divided into two general classes for the purpose of tuning—those which are heard in the early evening and those which are best heard during the early morning hours. In a few instances, there are stations which embrace both classes, but they are in a minority.

In the case of the early evening stations, DXers find a greater variety of possible catches as well as the most difficulties attending reception. Since the stations are being tuned during the hour or two prior to their sign-off, reception takes place between the fall of darkness over here and (1) the time they go off the air or (2) the time the local stations get too loud for separation.

During the late fall and winter, trans-Atlantic stations may be heard as early as 4:30 p. m., EST, along Atlantic Seaboard. Between 5:00 and 6:00, their signals reach a peak which is maintained until their sign-off. However, between 6:00 and 7:00 p. m., separation is made increasingly difficult by gains strength of the locals. Hence, there is a relatively short period early every evening when the TA's are at maximum strength and local interference is at a minimum. This may be but 20 or 30 minutes in duration, or it may last a full hour, but that is the only time when DXers can cross the Atlantic during the early evening.

In picking the stations to tune in the early evening, it is necessary to consider their schedules. With the exception of the principal German transmitters which go off at 3 a.m. their time, virtually all of the Europeans sign off between 11 p. m. and midnight, their time. In the case of mid-continental stations—Italy, Hungary, Germany and Czechoslovakiathis would be 5:00 and 6:00 p. m., And stations operating on Greenwich Time-France and England-will thus leave the air between 6:00 and 7:00 p. m.

Reception of these early evening stations is limited almost exclusively to listeners in the Atlantic and Eastern time belts. In fact, it is only those on the actual coastline who can enjoy consistent reception.

By far the best time to hear Europeans is in the early morning hours when most of the channels are clear. Many of the German stations come on the air for their day's schedule at 6 a. m., Middle European Time, which would be midnight, However, the channels don't begin to clear up until 1:00 or 1:30, at which time they can be heard. Italian stations come on the air between 1:30 and 2:30 a. m., EST, as do the French stentors. As day breaks across the Atlantic, the signals begin This usually starts at to fade out. 2:30 in the case of the Germans and Italians, it being 8:30 a. m. there, and most of the TA's are gone by three o'clock, when it is 8 a. m. in England and France.

Here again it is necessary to consult a schedule. It will be noticed that many of the more powerful stations, such as the English regional transmitters, do not sign on until after daylight has made reception quite impos-Hence, the late signers-on must be placed in the early-evening classification. Occasionally, a stations—notably the Germans, who are on a schedule of 21 to 22 hours daily-can be heard at both times, but usually it is necessary to place the average station in one of the two classes.

Following is a list of the principal European stations, with frequency in kilocycles and power in kilowatts. When known, the schedule is given in Eastern Standard Time. All of these stations have been heard in the United States from time to time, and many are regular visitors. A complete list of all European stations is given in another part of this issue.

- 546 Budapest, Hungary 120 KW Daily 6:05 am - 6 pm
- 556 Beromunster, Switzerland 100 KW Daily 6 am - 5 pm
- 565 Athlone, Eire 100 KW Daily 2 am - 5 pm
- 574 Stuttgart, Germany 100 KW Daily 11:45 pm - 9 pm
- 583 Grenoble, France 15 KW Daily 2 am - 5 pm
- 583 Madona, Latvia 50 KW 1 am on
- 592 Vienna, Germany 120 KW Daily Midnight - 9 pm
- 601 Rabat, Morocco 25 KW
- 610 Florence, Italy 20 KW Daily 2 am - 6 pm
- 620 Brussels I, Belgium 15 KW
  Daily 1 am 6 pm
- 620 Cairo, Egypt, 20 KW
- 638 Praha, Czechoslovakia 120 KW Daily 12:01 am - 5:15 pm
- 648 Lyons PTT, France 100 KW Daily 2 am - 5 pm

- 658 Cologne, Germany 100 W Daily 12:01 am - 9 pm
- 668 Manchester (No. Reg.), G. B. 70 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 677 Sottens, Switzerland 100 KW Until 6 pm
- 686 Beograd, Yugoslavia 20 KW Until 5 pm
- 695 Paris PTT, France 120 KW Daily 1:30 am - 6 pm
- 704 Stockholm, Sweden 55 KW Daily 6:05 am - 5 pm
- 713 Rome I, Italy 120 KW Daily 2 am - 6 pm
- 731 Tallinn, Estonia 50 KW
- 740 Munich, Germany 100 KW Daily 12:01 am - 9 pm
- 749 Marseilles, France 100 KW Daily 2 am - 5 pm
- 758 Katowice, Poland 12 KW Daily 1 am - 5:05 pm
- 767 Scottish Regional, G.B. 60 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 776 Toulouse PTT, France 120 KW Daily 2 am 5 pm
- 785 Leipzig, Germany 120 KW Daily 10:50 pm - 9 pm
- 795 Lwow, Poland 50 KW Until 5 pm
- 804 Wales Regional, G.B. 70 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 814 Milan I, Italy 50 KW Daily 2 am - 6 pm
- 841 Berlin, Germany 100 KW Daily 12:01 am - 11 pm
- 850 Sofia, Bulgaria 100 KW Until 5 pm
- 859 Strasbourg, France 80 KW Daily 12:30 am - 5 pm
- 877 London Regional, G.B. 70 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 904 Hamburg, Germany 100 KW Daily 11 pm - 9 pm
- 913 Toulouse, France 60 KW Until 6 pm
- 922 Brno, Czechoslovakia 32 KW Daily 6 am - 5 pm
- 932 Brussels II, Belgium 15 KW Until 6 pm
- 941 Algiers, Algeria 11.5 KW

- 950 Breslau, Germany 100 KW Daily 11 pm - 9 pm
- 959 Poste Parisien, Paris, France 60 KW Daily 2 am - 7 pm
- 977 North Ireland Regional 100 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 986 Bologna, Italy 50 KW Daily 2 am - 5 pm
- 995 Hilversum II, Holland 60 KW Daily 1:40 am - 5:40 pm
- 1004 Bratislava, Czech 13.5 KW Daily 1:05 am - 5 pm
- 1015 Midland Regional, G. B. 70 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 1031 Konigsberg, Germany 100 KW Daily 11 pm - 9 pm
- 1040 Rennes, France 120 KW Daily 1:30 am - 5 pm
- 1050 West Regional, G. B. 50 KW Weekdays 5:15 am - 7 pm Sundays 4:25 am - 6 pm
- 1059 Bari I, Italy 20 KW Until 6 pm
- 1077 Bordeaux, France 30 KW Until 5 pm
- 1104 Kuldiga, Latvia 50 KW
- 1113 Praha II, Czechoslovakia 60 KW Daily 12:01 am - 5 pm
- 1131 Horby, Sweden 60 KW
- 1158 Kosice, Czechoslovakia 10 KW Daily 1:35 am - 4 pm
- 1167 Monte Ceneri, Switz. 15 KW Daily 6:40 am - 4 pm
- 1185 Nice, France 60 KW
- 1195 Frankfurt, Germany 25 KW Daily 11 pm - 9 pm
- 1213 Lille PTT, France 60 KW Until 5 pm
- 1222 Rome II, Italy 60 KW Until 5 pm
- 1393 Radio Lyons, France 25 KW
- 1411 Fecamp (Radio Normandie), France 10 KW Daily 1 am - 8 pm

From this list, DXers will be able to select a group of the more powerful stations as a test for any early evening or morning session. As soon as darkness has fallen, they might try Budapest on 546, the British North Regional on 668, Milan I on 814, and Toulouse on 913. In each case,

interference from locals should be at a minimum around five o'clock.

As in the case of all foreign dialing, "spot tuning" is recommended as the best way of going after weak signals. The listener will try one of the four stations suggested Budapest should not be hard, as there is no powerful local on an adjacent channel. The British station on 668 should be far enough from WEAF to be heard until WMAQ starts to come through. Neither WHAS WCCO will offer early-evening opposition to Milan on 814. If one isn't heard at first, stick around for a couple of minutes. If the signal hasn't faded in after a reasonable wait, try one of the others. And so on until each of the four has had a chance to come through.

If it is found that none of these can be heard, try another group of transmitters which are known to be on the air. Should interference be too great, see if the station can't be heard during the early morning. And then go on for a try at another frequency.

In the event that one station is found to be coming through, the natural tendancy is to go after a lot more. But such a habit should be discouraged, as a good report on one station is worth more than several poor reports on a number of stations. There are always other nights to try for the rest of the broadcasters, and a good signal should never be passed up until a complete report has been logged.

The same general procedure should be followed for tuning during the early morning hours. Pick a group of German stations—say, Stuttgart on 574, Vienna on 592, Cologne on 658, Munich on 740, Berlin on 841 and on 950—and start tuning'' at 1 a. m., EST. channels are usually clear and, if European reception is good that morning, at least one or two of them should be heard. Along towards two o'clock, try the French stations-Strasbourg on 859, Toulouse on 913, Rennes on 1040. Bordeaux on 1077 and Radio Normandie on 1411. If XEAW isn't on late, Poste Parisien 959 is always a good bet. Frankfurt on 1195 always shows a good signal for its power.

No matter if the first five or six tried fail to show up, there is no reason to give up. Frequently only one or two TA's can be heard on any one morning, and it is up to the DXer to discover which one is coming through. Of course, there are occasional mornings when every European seems to be pounding through, and then there is a race to see how many can be logged before they commence to fade out.

While the nights of "perfect reception" are the exception rather than the rule, hardly a week of the TA season will go by without at least one or two days when many of the more powerful Europeans can be logged. If the wise DXer takes advantage of average reception to tune the bigger stations, he will then be free to go after the smaller transmitters when unusual conditions find them coming through.

Everything considered, there are few DXers today who, by patience, and perseverance, could not build up an impressive log of TA's and other foreign stations. Equipment and lo-

(Please turn to page 42)

# **High Frequency Globe Trotting**

• • With RAY LA ROCQUE

THE identity of the station on 15180 kcs. remains a mystery, although we have fairly good reason to believe it is a Soviet transmitter. This broadcaster has been reported to be anything from Ankara to Helsinki, but after hearing them sign off day after day with the "Internationale," which is the Soivet national anthem, we are lead to believe that its nationality is Russian.

We are convinced that the identification of this 15180 kcs. station as Ankara, Turkey, is incorrect. There is no Turkey on the 15 megacycle band; at least, it is not being heard on the North American continent. It is possible that the Turkish station is not yet operating, in which case we hope they get going soon so we'll be able to have Turkey for Thanksgiving!

# MEGACYCLE BREVITIES

It seems to be a favorite habit of ours to start this brevities department with a "puzzler" or mystery station each month. This month we're having a sale, a bargain so to speak-we're going to give you two stations to identify for us. Both seem to be in Chile, but here again we are only guessing. The frequencies are 9730 kcs. and 11742 kcs. You may have trouble with COCX on the latter. . . It might interest some curious fans to listen to conversations of the Pacific coast fishing fleet. They work on approximately 2680 kcs. from early evening till after midnight (PST). The yachts "Gypsy" and "Chief" both on 2174 kcs. also work these ships. . . A relief in these times of threatening war and strife in which shortwave radio is used mainly



Verification cards from the Praha station are illustrated with many different pictures, showing scenes in Czechoslovakia or pictures of their people. A bevy of Czechoslovakian YL's adorns this card. (Courtesy of A. C. Tarr).

for propaganda purposes are the programs of PCJ, the "Happy Station" in Holland, which typify a spirit of peace and good will among nations. . . Paris Mondial verified with a printed letter. in response to our notice of RADEX's change of address. We can't be too critical, though. These large stations have so many letters in foreign languages, that it is not odd that they make mistakes occasionally. . . A Rome transmitter is being heard afternoons on 15190 kcs. Quality is very poor and it may be a harmonic, but we can't imagine which of the many Rome trans-

mitters could be dropping a harmonic on this frequency! . . . Germany will increase the power of the Austrian shortwave stations to 50 km. and will add new frequencies to the existing ones so that the set-up of the Austrian shortwave network will be as follows: OER-2 on 6072 kcs., OER-3 on 11801 kcs., OER-4 on 9570 kcs., and OER-5 on 15190 kcs. This from the National Radio Club. . .

"An anti-Stalin station in Riga, Latvia has been reported heard in America. The station broadcasts from 7 to 10:15 p.m. on 10030 kcs."—Radio Guia—Havana, . . The Before Breakfast DX Club reports that VIG at Port Moresby, Papua is being heard regularly on 7300 kcs. relaying 4 P.M. Try for this station at 3 a.m. on the first and third Saturday of each month. QUOTE AND UNQUOTE

Al Bartholomew, Bradford, New York: "Can anyone supply any information on when to tune to OER-3?"

Walter V. Scholz, Webster Groves, Mo.: "I need help in identifying a station on 17765 kcs. speaking in a foreign language other than Spanish. The station is heard between 5 and 6 p.m."

Chester Ramon, Chicago, Illinois: "I would like to know if you have any information on the following stations. CZJ7 on 2260 kcs., WLD on 2330 kcs., and WOWB which seems to be a ship called the 'Stanley'."

Harry Honda, Los Ángeles, California: "Who is the Italian-speaking station on 15100 kcs. who signs at 10:45 a.m.?"

Bertram Podall, Gilman, Vermont: "Please inform me on the Yugoslavia station on 15120 kcs. Their program is in Yugoslavian except for one an-

nouncement in English asking for letters to be sent to Radio Station Belgrade, Yugoslavia." (The station is one of the Berlin experimental transimtters relaying Belgrade—see Germany in the "Shortwaves in Review" section—RL).

# ULTRA HIGH

The very eratic conditions on this band, including the skip-distance effect, make it necessary for us to caution you to notice the location of the reader reporting a station. One station may be heard R9 in one state and may not be audible across the border. This, in our opinion, adds greatly to the appeal of these bands. We like uncertainty with our DXing!

W2XDV on 31600 kcs. in New York City is heard with Columbia Broadcasting System programs on Sundays and Tuesdays from 8-9 p.m. (Horlick—Ohio).

W6XI on 31380 kcs. in Bolinas, California has been granted permission to operate on this frequency for the purpose of determining the effectiveness of the ultra-high frequencies for long distance communication. (RX)

W6XKG on 25950 kcs. In Los Angeles, California announces as the "Twenty-four Hour Station" and is heard as early as 9:30 a.m. with news at 10 a.m. They are good most of the afternoon and heard between 8 and 10 p.m. (Horlick—Ohio).

W8XNU on 25950 kcs. in Cincinnati, Ohio comes in a shade higher than W6XKG and is best from 2-6 p.m. (Horlick—Ohio).

W9XHW on 31600 kcs. in Minneapolis, Minn. is best on Sundays, Mondays, and Saturdays from 7-8 p.m. They verify promptly. (Horlick—Ohio).

W9XJL on 26100 kcs. in Superior, Wisconsin is heard as early as 10 a.m. with news items at 10:30 a.m. They are good in the afternoon and also from 6-8 p.m. when they sign off. (Horlick—Ohio). W9XJL is heard with a strong signal on the west coast from 11 a.m. to 2 p.m. (Honda—Calif.)

W9XPD on 31600 kcs. in St. Louis, Mo. verifies by letter through Robert L. Coe of KSD! They promise to keep RADEX posted on any changes at W9XPD. (RL—Mass.)

W9XA in Kansas City will rebroadcast programs of WLW as well as those of KITE when they begin their program tests. Watch the various broadcast frequencies on the ultra high bands for these tests. (RL—Mass.)

W9XUP on 25950 kcs. at St. Paul, Minnesota is heard from noon to 4:30 p.m. News bulletins given at 12:45 and 4:15 p.m. (Horlick—Ohio).

NEW on 41100 kcs. to the Board of Education of the city of New York for a station in Brooklyn to be used for non-commercial educational broadcasts with 500 watts power. (RX).

#### VERI NEWS AND NEW VERIES

EAJ-43 of the Radio Club Tenerife verified by card signed by Enrique Diaz giving the address as Apt. 222, Santa Cruz de Tenerife, Canary Islands. (Deterly—La.)

RADIO MARTINIQUE's card is colorful. Done in red, yellow, and blue with black printing the make-up is such that it cannot be properly described without viewing it. (It was illustrated in the September, 1938, issue of RADEX). (RL—Mass.)

RKI verified with a photo of the Kremlin and enclosed a station schedule. The letter contained a fine stamp picturing the Russian Arctic explorers. (Travener—Texas).

Jim Walker informs that ZLT does not verify. . . You can always be certain of something new from Prague. It seems every card from them has a different picture. . . A verification from SPW received by Edward Hirsch (R111) of St. Albans, N. Y. states that they now use a power of 10 kilowatts. . . Japan is to issue verifications in CARD form instead of folders beginning this month.

#### SHORTWAVES IN REVIEW

## Albania

NEW—a three and one half kilowatt transmitter is scheduled to go into operation early in 1939! The construction has been under way for some time at Tirana, but this is all the information available at this time. (Morey—Mass.)

#### Canada

NEW—a transmitter, designed to operate on approximately 4324 kcs. will be installed at headquarters of the government reindeer station, lying immediately east of the Mackenzie River delta in the Northwest territory. The station will be used for communication with the Signals Station of the Department of National Defence at Aklavik during periods of break-up and freezeup when travel over extended distances is not possible in that country. (RX).

#### China

XTJ on 11690 kcs. in Hankow is heard from 7-8:30 a.m. with best signals during the first half hour. News items in several languages are given at 8 a.m. Announcements are made by both male and female announcers. The address is P. O. Box 90. (Bartholomew—N. Y., and Skyten—Mass.)

XGW on 10420 kcs. in Shanghai is

the best signal from China on the coast and they are operating daily from 6-9:45 a.m. English news is given at 9:15 a.m. Address is XGW—Chinese Gov't. Radio Administration, Sassoon House, Jinkee Rd., Shanghai. (R35—Cal. 2).

XTC on 9290 kcs. at Nanking is another well-heard Chinese station. They operate from 8-9:10 a.m. (R35—Cal. 2).

#### Colombia

HJU on 9510 kcs. in Buenaventura informs the Cleveland Radio Club that they are closing down their transmitter. (RX).

HJ3CAD on 4841 kcs. at Bogota, known as "Emisora Nueva Grenada" is the call now being used by what was formerly HJ3ABD. May we add that this is a "belief" and will bear confirmation? We know there has been a change but will not guarantee our interpretation of the annoucer's utterances. So 'elp us it sounded like HJ3CAD to us in English as well as in Spanish. (RL—Mass.)

#### Costa Rica

TI4NRH on 9670 kcs. in Heredia, will conduct a special DX program for the National Radio Club on November 24 from 9 to 10 p.m. The NRC will appreciate it if every RADEX reader will report on this program. (Herz—III.)

#### Denmark

OZF on 9520 kcs. in Copenhagen has inaugurated a special daily broadcast for North America, after the recepit of several letters from the BBDXC. The broadcast is from 10-11 p.m. and is in addition to their old schedule of 2-6 p.m. Reports should



Printed in light blue, dark blue and black, this card from CSW is one of the most attractive of all QSL cards. (Courtesy of A. M. Hankins.)

be addressed to Postog Telegrafvaisenet, Radioingenioertjenesten, Bernstorffsgade 32, 1, Copenhagen V, Denmark. (R35—Cal. 2). Taglauer—Ky.)

OZH on 15165 kcs. is heard very well from 8 a.m. to 1:30 p.m. They announce in English as "Danish Shortwave Station." (Herz—III.)

# Dominican Republic

HI3X on 15280 kcs. in Trujillo City is heard every Sunday from 7:40-10:40 a.m. Their schedule also calls for week-day broadcasting from 12:10-1:10 p.m. (Herz—III.)

## Federated Malay States

ZGE on 6200 kcs. in Kuala Lumpur, now on this frequency, has been heard with a fair signal on the west coast. Their schedule is Sunday, Tuesday, and Friday from 6:40-8:40 a.m. ZGE is operated by the Institute of Medical Research at Kuala Lumpur. The frequency seems to vary from 6120 to 6200, but broadcasts of late seems to have been on 6200 kcs. (R35—Cal. 2).

#### Finland

OFD on 9500 kcs, at Lahti is heard

in the afternoon from 3:30-5 p.m. when XEWW is not broadcasting. Occasionally, the Mexican stays up on 15160 in the afternoon and then it is not too difficult to pull in a signal from Lahti! (Miner—Wollaston).

#### Germany

DZC on 10390 kcs. and DJL on 15110 kcs. are now relaying programs from the "Radio Beograd", Belgrade, Yugoslavia, otherwise known as YUA. Care should be taken not to mistake these for new Yugoslavia frequencies. (The Eders—Minn.)

#### Guatamala

TGWA on 9685 kcs. broadcasts from 10 p.m. to 11:30 p.m. They announced that they will verify all reports and that the listeners need not include return postage. (Lang—Pa.)

TGWB on 6490 in Guatamala City is now on the air. They are heard in parallel with TGWA and remain on the air for 45 minutes along with TGW after the 9685 kcs. station signs off at 1:30 p.m. (Bruder and RL.—Mass.)

#### Haiti

HH2S on 5925 kcs. in Port-au-Prince broadcasts programs from Jamaica every night between 8 and 9:30 p.m. The station is heard with an R7-9 signal. (R21—Pa. 3).

## Hungary

HAT-4 on 9125 kcs. in Budapest informs that they might change frequency. They receive too many reports of poor reception on the present channel. (Sekach-Mich.)

#### India

ALL INDIA RADIO—Schedule of transmissions:

VUD3 Delhi (5) 15160 kcs.:

8:30 p.m. to 10:30 p.m.

1:30 a.m. to 3:30 a.m. VUD3 Delhi (5) 9590 kcs.:

7:30 a.m. to 12:30 p.m.

VUD2 Delhi (10) 9590 kcs.:

8:30 p.m. to 10:30 p.m. 1:30 a.m. to 3:30 a.m.

VUD2 Delhi (10 4995 kcs.:

7:30 a.m. to 12:30 p.m.

VUB2 Bombay (10) 9550 kcs.: 9:30 p.m. to 10:30 p.m.

1:00 a.m. to 3:30 a.m.

VUB2 Bomboy (10) 4905 kcs.

7:00 a.m. to 12:30 p.m. VUM2 Madras (10) 4950 kcs.:

7:00 a.m. to 12:30 p.m. VUC2 Calcutta (10) 9530 kcs.:

2:06 a.m. to 4:06 a.m.

VUC2 Calcutta (10) 4880 kcs.: 6:36 a.m. to 12:06 p.m.

Power in kilowatts is shown in parentheses after the location. (Marion—La.)

VUD3 on 15160 kcs. in Delhi is still being heard well when it starts its program at 8:30 p.m. They fade out almost completely one hour after the start of the program. The 9590 kcs. transmitter is not heard at the 8:30 p.m. schedule as they are QRM'ed by PCJ or W3XAU. (Taglauer—Ky., and R7—Pa. 1).

#### Italy

IQY on 11676 kcs. at Rome is heard during the American Hour from 7:30-9 p.m. The station is reported along with I2RO-4 on 11810 kcs. (Worthington—B.C., and Marion—La.)

#### Japan

JFO on 9636 kcs. in Taiwan, Formosa is one which you should have a tough time loging. They're on from 6-7 a.m., but use only one kilowatt! (Bartholomew—N. Y.)

JVN on 10660 kcs. broadcasts the news at 4:55 a.m. daily. The station is received here with very good volume

of late. It has been noticed that a short period before the news is broadcast the station closes down temporarily. A few minutes later JVN comes back only to have about three or four times the original strength! (Wells—Ala.)

JZK on 15160 kcs. is now carrying the North American program from 8-8:30 p.m. in place of JZL. JZK is also being heard well around 5 p.m. with occasional English announcements. (Barker—Me.)

JZO on 10270 kcs. is a new Tokyo station which is being used from 8-9:30 a.m. (Bartholomew—N. Y.)

## Kenya Colony

VQ7LO on 10730 kcs. in Nairobi was heard relaying jungle music to NBC at 9 p.m. (Taglauer—Ky.)

#### Mexico

XECR on 15150 kcs. in Mexicco City is now being heard occasionally on this frequency. Try for it Sundays. (Skyten—Mass.)

#### Netherlands

PCJ on 15220 kcs. in Huizen heard on west coast 1:55 a.m. to 2:15 p.m. (Worthington—B.C.)

NEW station on 21480 kcs. in Huizen is heard daily broadcasting simultaneously with PHI on 17770 kcs. The signal is the best on the 13 meter band. (Skyten—Mass.)

#### New Caledonia

RADIO NOUMEA on 6100 kcs. at Nouma can now be heard relaying FJP the long wave station after W9XF leaves the air at 2 a.m. The broadcasts are in French and begin at 2 a.m. on Tuesdays through Saturdays. Due to its low power, this station is heard only when best conditions prevail. At 3:30 a.m., "Radio Noumea" signs off with the French National Anthem. The ad-

dress is 44 due de l'Alma, Noumea, New Caledonia and all reports will be verified if they are correct. (R35— Cal. 2).

#### Panama

HP5I on 11895 kcs. has been heard very well of late announcing their address at P. O. Box 1121, Panama City. (Barker—Me.)

HP5'G on 11895 kcs. now, having transferred to this frequency from 11780 kcs. (Brodowski—N. Y., and Miner—Mass.) Particulars on the station: Slogan—Ron Dalley; Power 750 to 1500 watts; P. O. Box 1121; Opening and closing theme—"Prelude of Traviata". Interval signal or chimes—none; Language used—English and Spanish; operating hours—6 to 10 p.m.; verifications for an I.R.C. (Gallivan—Canal Zone).

#### Poland

SP-19 on 15121 kcs. and SP-25 on 11740 kcs., the new Polish stations are being used with directional aerials to South America. SP-19 is not too difficult to hear, but SP-25 is hiding behind COCX's skirt and doing a very fine job of it. They couldn't have gotten closer to COCX if they'd borrowed the Cuban's own crystal! Reports on these stations are solicited and should be addressed to Polskie Radio Warszawa, Warsaw, Poland. Schedule is from 6-9 p.m. According to announcement more experimental shortwave stations are due to take the air (Borey—Mass., Scholz—Mo., Bruder—Mass., Leshner—Mass., Skyten-Mass., Sekach-Mich.)

#### Portugal

CSW on 15100 kcs. at Lisbon heard in the morning around 9 o'clock with Portuguese National Anthem. Skyten —Mass.)

## Spain

RADIO NACIONAL on the frequescies listed below are the principal stations being used by General Franco and his government. The times shown are for English broadcasts.

FETI Valladolid 7006 kcs.

No English program.

..... Bilbao 7246 kcs.

(Radio Espana) Tues., Thurs., and Sat. 3:15 p.m. Sun. 4:30 p.m. .....San Sebastian 7205 kcs.

(Radio Espana) 8:20 a.m. and 4:30 p.m.

...... Madrid Front 6750 kcs.
(Radio Nacional A Z) 5:15 p.m.

..... Madrid Front 7050 kcs.
(Radio A Z) 5:15 p.m.

EA9BJ Alcazarquivir 7125 kcs. FET-5 Burgos 7351 kcs. 2:15 p.m. EA2AE Las Palmas 7152 kcs.

EA2BH Jaca 14115 kcs. 8 p.m. EA9AH Tetuan 13992 kcs. 5 p.m. (Gardner-Ohio).

#### Straits Settlements

ZHP on 9690 kcs. in Singapore heard daily with signal at it's best between 6-7 a.m. (Bartholomew—N. Y.)

#### United States

NEW—The NBC has been granted a construction permit for a new international broadcast station at Boundbrook, N. J. on 17780 kcs. with 35 kw. The CP and license are experimental and may be cancelled at any time by the FCC. (RX).

W3XAU in Philadelphia has been granted permission to add the frequency of 15270 kcs. to those authorized in its existing license. (RX).

W3XAL in Boundbrook, N. J. has also been granted a couple of additional frequencies — experimentally. They are 9670 kcs. and 21630 kcs. (RX).

W2XAA on 8655 kcs. was heard operating portable in Chicago. It is

owned by Bell Telephone Labs., New York City. (Hill—D.C.)

W9XDH on 12862.5 kcs., Elgin, Ill., of the Press Wireless, Inc. was heard testing about 12:30 p.m. Frequency was announced and popular reocrdings played. Station identification was given every 10 minutes. Signal very strong! (Hyde—Conn.)

U.S.S.R.

RAN on 9595 kcs. from 9-9:15 p.m. with English program was heard with R5-7 signal. RNE was on 12000 kcs. commencing at 10:20 p.m. (Scholz—Mo.)

Union of South Africa

ZRK on 9610 kcs. in Klipheuvel is heard on the west coast until 1 a.m. with good signal. (Honda—Calif.)

#### Uruguay

CXA-8 on 9640 kcs. has been heard operating as late as 2 o'clock on Sunday morning. (RL—Mass.)

# Reporters For The Month

A word of explanation: The items above are not direct quotations from the readers' letters. They are, instead, our own version of the news as submitted by the readers. Credit is given as follows: "RX" means official news; "RL" is your truly; and the others are the last names of the reporters. When the reporter is a member of the RADEX club (and we believe everyone of them should be) his club number is given instead of his name.

R7, Pa. 1, A. M. Hankins, Latrobe, Pa. R9, Mo. 1, Walter V. Scholz, Webster Groves, Mo.

R21, Pa. 3, Edward Lang, Philadelphia, Pa.

R35, Calif. 2, Stanley B. LaRue, Beverly Hills, Calif.

R49, D.C. 2, David Hill, Washington, D.C.

R111, Edward Hirsch, St. Albans, N. Y.

R140, Conn. 5, J. Herbert Hyde, Elmwood, Conn.

wood, Conn.
R184, Carl Eder, Willmar, Minn.
R185, Anne Eder, Willmar, Minn.
Elvyn Barker, Portland, Me.
A. Bartholomew, Bradford, N. Y.
John Brodowski, Brooklyn, N. Y.
Arthur F. G. Bruder, Allston, Mass.
Wilbert F. Cornwall, Englewood,
Colo.

A. V. Deterly, Baton Rouge, La.
J. D. Gallivan, Balboa, Canal Zone.
J. E. Gardner, Cleveland, Ohio.
Leo Herz, Chicago, Ill.
Hary Honda, Los Angeles, Calif.
Mark Horlick, Youngstown, Ohio.
Matthew Leshner, Lawrence, Mass.
Charles A. Marion, New Orleans, La.
Capt. W. W. Massey, Fort Payne, Ala.
Hary V. Miner, Wollaston, Mass.
Kenneth Morey, Easthampton, Mass.
Frank Sekach, Detroit, Mich.
Robert Skyten, E. Brookfield, Mass.
Walter C. Snyder, Grand Rapids,
Mich.

Bob Taglauer, Covington, Ky. Cliff Tavener, Rosenberg, Texas Jack Wells, Phoenix City, Ala. E. Worthington, Vancouver, B. C.

#### **New BBC Station**

A new 5 kilowatt transmitting station at Redmoss, near Aberdeen, Scotland, was put into service on Sept. 9, replacing the one kilowatt transmitter that has been serving the Aberdeen district for fifteen years. The old station's frequency of 1285 kcs. is retained by the new station. The programs radiated originate in studios in Aberdeen or in London.

# RAY SAHLBACH



Ray Sahlbach is a well-known DXer, residing in St. Louis, Mo. The photograph above shows him seated at his set, in his "den," with but a few of his many verification cards on the wall. He did not identify the cards which are shown, but we can make out cards from EAQ in Madrid, Berlin, W9XAA, and a Venezuelan veri.

We invite our readers to send photographs for reproduction in RADEX. Radio fans are requested, when sending pictures of themselves, to send also a short history of their DXing activity. All photographs will be returned.

# TUBES Need to be Replaced By B. FRANCIS DASHIELL

Main Street came to a halt before the windows of Higrade Radio
Sales and Service to admire the new
automatic all-wave radios. And Turner
Dial, Higrade's proprietor, was proud
of his display of receivers and
the interest his fellow townsmen were
showing was pleasing him. Already
he had sold several sets because of
his window and floor exhibition. So,
when an express truck unloaded several crates of still another maker's
1939 models, Turner became anxious
to get them in the store.

"Bill," he called. "Lets move these crates back and get 'em opened. I'm anxious to see how they look."

"Coming," replied Bill Wood, as he reached the nail puller. Bill was a young man of untiring energy who had a yearning to become an expert radio serviceman. Soon the two men had the crates moved to the rear of the store, and Bill was carefully opening them.

Turner Dial, who serviced most of the town's radio sets, had also sold nearly every set in use. There was one thing that spoiled the radio business as far as he was concerned, and that was the problem of trading in old sets. Turner knew beforehand that he would have to face that prospect whenever a customer entered the store. Dial did not like it, and often expressed his opinions in no uncertain terms.

"Guess we'll have to take in an ancient set every time we sell one of these new ones," Turner remarked to Bill Wood.



"I can't see why you mind that, replied Bill. "You've made two profits." With an air that he had solved the depression problem. Wood pulled back the last piece of crate. Ain't it a beaut!" he exclaimed.

But Turner Dial was filled with argument. "This tradein business is a racket," he opined. "Everybody does it, and we have to, but no one likes it." Turner's thoughts passed down to the "museum" in the basement where dozens of old receivers. too good to junk, were stored. Those trade-ins represented discounts from list prices on new receivers—often bargains to his customers and reduced profits to himself. If he could only sell them! But the market for used sets simply did not exist. Perhaps he could push them a bit and make a market for good secondhand receivers. He had always argued that, with an overhauling, many of those sets would perform for years in modest homes where new, expensive sets, frequently purchased on time payments, were financial burdens.

The insistent ringing of the tele-

phone broke Turner's reverie. He stepped quickly into the little alcove which served as his office. "Good morning - Higrade Radio - may we be of service?" Turner responded, using the phrase of the moment. "Yes! That's too bad. I'll fix it up, and be there right away." Dial hung up the receiver and stepped into the service department.

"What's the matter," asked Wood. "Sounds like real trouble."

"Don't know exactly," answered Turner. "That new 12-tube set we just sold Mr. White has gone haywire. He's plenty sore too. I'll run out there, so you take care of the store."

Wood grinned. "I knew that sale was too good to be true. He paid cash and didn't have a trade-in to argue about. Guess it can't be bad, for it was the best set on the floor."

But Turner Dial had stepped behind the counter. He had already formed an opinion, and was reaching for several different tubes. time he looked at those shelves filled with tubes he boiled a bit internally. He was compelled to stock up more than half a dozen different makes, and now there were so many types he could not remember them all. course, he did not have every kind on hand. One of America's leading tube makers listed 161 different types of receiving tubes, not to mention all the special kinds. Dial picked up his emergency kit, stuffed the tube cartons in it, and said: "I'm off. Be back soon as I can."

Ten minutes later Turner Dial drove up before a home set among the trees in the suburban section of town. He rang the bell, and Mrs. White opened the door. "Come in," she said. "My husband had to go out a few minutes, but you will find the radio in the living room."

Turner could see annoyance in her eyes. He knew now he had an indignant woman to face. It made him feel nervous, but Turner usually was that way around women, especially when they had new radios that had gone haywire for no good reason at all.

"We've had this set only a few days." began Mrs. White. "Its getting worse all the time, and last night it got so we could hardly understand it. It simply will not pick up a distant station. Mr. White got the best you had, and now it's no good!" And she snapped her thin lips together in a straight, tight line.

"Well, let me examine it," remarked Turner, as he laid open his kit and removed the portable tube checker. "I'll test the tubes." He snapped the set on. A door closed, and Turner, glancing around, saw Mr. White just entering. Mr White nodded and spoke.

"I heard you mention tubes," he begn. "I understand that new tubes came with the set, and that they were guaranteed. Did I get new tubes?"

Turner flared up a bit internally, but he took a deep breath and pulled the heavy receiver out from the wall. Peering into its interior he saw the tubes had heated, and all were revealing a filament glow to his practiced eyes. "These sets come direct from the factory fully equipped with new tubes," was all he dared venture. Perhaps it was not a tube at all, and Turner shivered inwardly. How Mrs. White would carry on if he had to



The talks studio of the Helsinki, Finland radio station. Programs from this station are now relayed on shortwaves over the new Labii stations.

take the set back to shop and work on it! Certainly, that would be embarrassing!

Now that the set was warmed, Turner tuned it to a local. But it gave forth only weak distorted sounds. Switching to the short wave bands did not help for the set appeared to be dead. The receiver definitely was out of order, but Turner felt certain the fault was in one of the tubes.

"I'll test the whole 12 tubes first, just to be sure," Turner remarked, more for the want of something to ease the tension. "If they are not

right, we'll replace 'em. This set has to performe properly, or I'll take it back. But its one of the best 1939 receivers made."

Turner quickly checked over the tube layout. The first was a type 6K7G radio frequency amplifier. Next was a type 6L7G converter, then a 6K7G intermediate frequency tube. Turner felt certain these tubes were good, since the set would be dead if they were bad. The next tube was a type 6H6G second detector and automatic volume control. Here was a possible cause of trouble. Removing the 6H6G, he placed it in the tube checker. Just as he had imagined, the hand of the meter slowly moved to the "dead" sector of the scale. "See." Turner called to the Whites, "this tube is defective. I'll put in a new one, free, of course."

"Humph!" answered Mrs. White. "And what, may I ask, is to prevent it from going dead again?"

"I don't think it will. That first tube showed up its defects after it had been in use a short time," ventured Dial. "It was something that neither the factory inspectors nor anyone could forsee without actually trying the set for a long period." Turner prayed to himself that the new tube would not fail, but he decided first to check the socket potentials. They turned out to be normal. "Just a bad tube," said Dail, "lets see how it works."

The local station that sounded so distorted and weak now came in loud and clear. Then, switching to the shortwave band, a number of stations were heard with good volume. Changing the three dials about, ama-

teurs were heard, and a few police and airplane conversations came in.

"Why!" exclaimed Mrs. White, "it never worked that well before, and we thought it was fine then." Her belligerent attitude changed as she turned to her husband: "It never sounded so lifelike before!" Mr. White nodded, and continued to listen. Then Mrs. White went into the next room. "Mary, come here!" she called.

Turner Dial was picking up his kit and contents when a new voice from behind made him quickly swing around. "Oh, Mother! How perfectly lovely it sounds!"

"This is Mr. Dial, Mary!" said Mrs. White by the way of introduction. Mary smiled and her blue eyes

sparkled.

Turner smiled back and confusedly said a few words. He was thinking that he had never seen such an attractive young lady. But the crash of a falling screwdriver as it slipped through his fingers brought him to his senses. "I feel sure that the set will work well this time," he said, as the last tool was placed in the kit. "Maybe moving the set out here did something to the tube." Turner passed through the front door, followed by Mary, and added: "Please call me if anything does not seem right in that receiver." Secretly he hoped that he would have to examine the set again, if Mary called.

Back in the store Bill Wood was trying to please half a dozen customers. So, when Turner hastened in, Wood called: "There's a fellow waiting for you back at the service bench. He's got plenty of trouble, according to him!"

Turner glanced at the customers. Most of them seemed to be buying tubes. "Winter season and good radio reception calls for new tubes in old sets," thought Turner. That was an idea - he would make a sign like that for the window! He continued to move toward the rear of the store. "Yes, Sir?" he asked.

"Turner Dial?" questioned the waiting customer. "I've been told by several friends to look you up. My radio is giving trouble."

"What seems to be wrong?" asked Turner.

"The set," began the middle aged man, "cuts on and off suddenly, but more or less regularly. It has worked just fine all the time up to now. Even the tubes have lasted a long while, but I took them out and brought 'em along."

"Humph!" muttered Turner. "Let's those tubes." Walking over to the tube tester, which was a new model having the meter face flush in the counter top so it could be seen easily by the customers, he snapped on the switch. He inserted each tube, one at a time, and always the little hand swung to that portion of the dial between "fair" and "good." "Well," said Turner, "these tubes test up fairly well, and ought to run a while longer. Your trouble might be caused by other things. If we had the set here on the bench, we could soon find out if it has an open-circuited by-pass or coupling condenser or resistor.''

"How will I know?" asked the man. "If its just a tube I wouldn't have to bring in the set. I live out a ways from town."

"Let me tell you something about

tubes," said Turner Dial, as he leaned back on the bottom shelf. "Sometimes tubes check o. k. on a tester, yet give trouble. Your tubes are pretty old. They can be the cause of intermittant reception." Bill Wood, having dismissed his last customer, joined the "Now," continued Turner. "tube trouble in a set is so common that the first thing we look for is a bad tube. While an instrument test, just like I have given, is the proper thing, sometimes a replacement test works better. This is a simple test and it also permits you to try the new tubes under actual operating conditions. That's what I propose to do in your case."

"For instance," Dial continued, for he enjoyed explaining radio to really interested customers, "if there is a broken element, such as a heater filament, or even a poorly insulated cathode, the tube might fail to operate continuously after it gets hot. If the tiny filament breaks, the ends might make contact again when it cools and start the set up once more. Thus, the on-and-off operation. Then, too, the internal insulation and spacing of the elements may change when the tube gets good and hot."

"But why doesn't that show up on your test?" asked the customer. "Can't you tell when a tube is bad?"

"Yes, I guess I could," answered Turner, "if I took a long time on each tube and watched its performance carefully after it got good and hot. To test these tubes that way would take too long, and then I might not discover the trouble." Turner placed the old tubes in a row on the

counter. "Bill," he said, "go back in the shop and pick out a set of used duplicate tubes from the bins."

In a few moments Wood was back with ten used tubes. "I know these are good," said Turner. "I'll loan 'em to you to take home and put in your set. If the receiver does not cut on and off, then start replacing my tubes with yours, allowing about one-quarter of an hour or longer between each tube replacement. Sooner or later you'll find that one of your tubes brings on intermittant reception. That will be the bad tube. Come in and get a new one, and bring my tubes back at the same time. Better still, get a complete new set, for, after all, yours are pretty old. You'll be surprised at the difference new tubes will make. But. listen. Mister. if your set cut on and off with my tubes in it, you need a shop job. It won't cost much or take very long."

Turner Dial turned to his young assistant. "Well, Bill, what's been going on while I was out?"

(Please turn to page 95)



This is one of the cards used by SPW in Warsaw, Poland, to verify reception of their station. The colors are blue and black. (Courtesy of A. C. Tarr).

# NIGHT LIFE OF THE RADEXERS

By CARLETON LORD

With the opening of a new radio season, thousands of DXers are making ready for their regular jaunts down the midnight air lanes. In the article which follows, new DXers will find a wealth of information, and old-timers will find a helpful hint or two, to aid them in the enjoyment of their hobby.

THE cobwebs of a past winter have been brushed away by a summer hibernation away from the dials, and each night owl anxiously awaits the first cool nights of the season. Whether the listener be an old-timer or a new disciple of DXing, he is looking forward to a harvest of new stations. Regardless of his past successes, he generally has a new goal to be reached by the following spring—and more often than not, he is successful in his quest for bigger and better DX.

During the past few years, the carly-season hopes for good listening have been squelched by ominous predictions of heavy static, poor signals and the other evils attending the maximum of a sun spot cycle. In some cases the prognosticators have seen their dire forecasts come true, and many a listener has become discouraged before the season was well under way.

But this year every indication points to reception such as we haven't enjoyed in half a decade. As reported in the September issue, the sun spot cycle hit a peak in July of 1937 and has been on a real decline ever since. The marked improvement in general reception, as indicated by many listeners last season, is more than substantiated by early reports this year. Signals as a whole seem to be showing greater punch, static is lighter than usual, and many

distant stations are showing to advantage. All in all, it looks as though it won't be long before an old-fashioned DX season will be with us in full force.

Listeners who have not as yet made full preparations for a winter of serious dial twisting, would do well to read over the article in the September issue which gave many tips on making the most of good reception conditions. Among the everyday problems covered were factors governing location. choice of receivers, efficient antenna installations, the noise nuisance, and the all-night broadcasters.

The October issue contained the first part of an article on tuning the foreign stations. Fundamentals of good tuning were covered in detail, and many tips were given on how, when and where to tune for stations in South America and the Antipodes. The second section of this article, with emphasis on European and Asiatic reception, appears in another section of the current issue. Old-timers may find a new kink or two, while the newer DXers should find a wealth of information on this most fascinating part of DXing.

Many new stations, both in this country and abroad, have come on the air since last season, and should afford worthwhile targets for every night owl. The latest available schedule of the monthly frequency checks, appearing elsewhere in this is-

sue, includes more than a score of new stations now on a regular schedule.

In addition to the new transmitters, there have been many changes in the broadcast spectrum. Many stations have increased their power, while others have switched frequencies, with varying effects on range and interference. All of these changes, of course, are included in the regular indices each month, so the midnight marauders will not want for authoritative information.



The Palace of Commerce at Rennes, France. This handsome building houses the radio station of the Rennes transmitter on 1040 kcs. This is one of he most frequently heard European stations.

#### Station News

Recent reports of a new station at Kenora, Ont., have been confirmed in the announcement that the Kenora Broadcasting Co. has been formed to manage and operate CKCA in the Hotel Kenricia in that town. Although the original license called for a power of 100 watts on 1420 kcs. it is understood that 250 watts will be used for daytime transmissions. The Canadian Marconi Co. is manufacturing the equipment and the station is expected to be on the air by the time this issue reaches the news-stands

Following negotiations by Station KGGC (now KSAN), San Francisco, with the Western Merchandising Mart to remove the studios and transmitter to that building, plans are under way for the construction of a 300-foot tower atop the building. RCA has the contract to install complete and modern equipment. S. H. Patterson, tormerly manager of KVOR, will be in charge of the new KSAN set-up.

According to Harry Honda of Los Angeles, Station XERB Rosarito Beach, B. Cfa., has been testing from 7 to 10 p. m., PST, on 1090 kcs and is no longer heard on its old frequency of 730 kcs. And Bob Vernon of Sacramento notes that the station will verify for return postage.

Stephen Mann, Lakewood, Ohio, advises that KWLK, 780 kcs, Longview, Wash.; KXOK, 1250 kcs, St. Louis, Mo.; KDNT, 1420 kcs, Denton, Texas; KFAM, 1420 kcs, St. Cloud, Minn.; and KTRI, 1420 kcs, Sioux City, Iowa are now on the air and broadcasting on regular schedules.

"I would like to correct the classification in your index which states that XERA does not verify," contributes Walter Klein, 216 Montague Place, South Orange, N. J. "Reports are verified promptly if addressed to Don Howard, Station XERA, Apartado 30, Villa Acuna, Coah., Mexico."

"Station WFAA at Dallas is erecting a new vertical radiator," supplies Leonard Woodall, R. D. 2, Plano, Texas. "It will be 654 feet high and will replace the two 300-foot towers from which the present antenna is strung. Increased signal strength is expected to extend WFAA's listening audience by at least 200,000 persons.

The new tower is triangular in shape, weighs 50 tons, and is supported by six guy wires to withstand a wind velocity of 110 miles per hour.

"Station KGKO, formerly at Wichita Falls, is now broadcasting from its new location in Fort Worth. They are using 5000 watts non-directional in the daytime and 1000 watts directed East and West at night. They broadcast from 7 to 1 a. m., EST, daily, and carry NBC Blue network programs."

"A recent letter from VOAS, St. John's, Nfld.," postcards Richard Wright, 5762 Harper Ave., Chicago, Ill., "advises that their transmitter is closed down, so you can delete them from your indices."

"At present, KWJJ, Portland, Ore., signs off at 6 a. m., EST, and comes back on the air at 9 a. m.," offers Rud Anderson, Ambrose, N. "During daylight saving, WMCA was signing on an hour before WNAX on 570, but this won't help Western DXers until next spring. DXers seem to think that KRE and Actually, KXL are 24-hour stations. although KXL used to be in this classification, it now signs off at 3 a. m., EST. KRE has been calling it a day at 4 a. m., EST, daily except Sunday mornings.'

"KLPM started to use 1360 kcs on April 11th and have been putting a fair signal into Regina," writes Paul Sampson, 1820 Collge Ave., Regina, Sask. "CKBI has been granted a power increase to 1000 watts on a frequency to be announced later. CJRM is moving its transmitter from 25 miles West of Regina to a point seven miles East and two miles North of the city, where they are installing

a new 400-foot self-supporting antenna."

From Samuel A. Meyer, Jr., 83 Canterbury Rd., Rochester, N. Y., comes word of two new Guatamalan BCB stations. The first is TGQ, 1450 kcs, 200 watts power, located at Quezaltenango. Reports should be addressed to the Director of Electrical Communications at Guatamala City. The second is TGX, 1400 kcs, power unknown, Partido Liberal Progresista, Guatamala City.

"For your indices," notes Baker Young, Parma, Idaho, "here are two more stations which will verify reports for return postage: KYOS, 1040 kcs, Merced, Calif., and KVCV, 1200 kcs, Redding, Calif. KVCV, incidentally, told me that they were printing up some attractive verification cards."

Daytime Reception

From time to time readers have brought up the subject of DXing in daylight. Because of the freakish behavior of broadcast band signals during the daytime, it has been difficult to determine just how far it is possible to hear at that time.

There is no doubt but what really incredible distances are covered under unusual conditions, and reception of powerful stations as much as a thousand miles away is frequently reported. In fact, according to some reports, there are spots in Minnesota and the Dakotas where stations from coast-to-coast may be dialed during the early afternoon. But such reception is not usual and the average listener may well be satisfied when noon-time dialing brings in transmitters more than three or four hundred miles away.

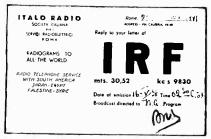
"Recently I tried to see how many stations I could hear in the daytime, submits Stephen Mann, 1281 Ramona Ave., Lakewood, Ohio. "Using a 10year-old General Motors 8 tube receiver, with an inverted-L aerial 20 feet long and 15 feet high, I logged 56 stations between 1 and 4 p. m., EST. Beginning at 550 kcs and ending up at 1510, I heard WGR, WKRC, WKBN, WCLE, CFCO, WMAO, CFRB. WLW, WGN. CFPL, WJR, WBBM, WHAS, CBL, WKAR, WLS, WENR, WMMN. WBEN. WWI. WICA, CRCY, KDKA, CHML, CKLW, WTAM, CKOC, WJJD, WHAM, WWVA. WOWO, WTOL, WHBC, WJW, WCAE, WXYZ, WHIO, WJAS, WEXL, WADC, WSPD, WHLS, WBNY, KQV, WHK, WBCM, WMBC, WHIS. WBNS, WGAR, WKBW, WWSW, WJBK CKCR. The weather was clear and the temperature about 70°. All of the stations were loud enough to take down a complete report. Although this is not exceptional daytime reception, it shows what can be done with an old set and a small aerial."

"The other noon I tried to see how many stations I could hear," recalls A. M. Hankins, 1006 Ligonier St., Latrobe, Pa., "and scanned the dial from 540 to 1550 kcs. A total of 47 stations could be heard, although not more than half of them were very clear."

"Just a line to let you know how pleased I am with my new Model 12-S-232 Zenith receiver," proclaims George Tonison, 714 McAllister St., San Francisco, Calif. "It is the most sensitive and selective set I have ever owned. Distant stations come in on each side of all our local transmitters."

## DXing with Two Tubes

"I haven't been DXing as much as I should," admits Frank Macedo, 1011 Burdette Ave., Victoria, B. C., "but the old bug seems to get me every winter and I always spend at least a month in harness. I am still using my old two-tube regenerative receiver, and I wouldn't trade it for



This IRF card is reproduced through the courtesy of J. R. Hahn,

any of the multi-tube jobs you could offer. That may sound foolish, but here is the reason:

"In 1932 I heard my first TP good old 2YA. I thought this was the height of success, but that year brought a regular invasion of Japanese station. I verified the big 10kilowatters JOAK, JOIK, JOFK, JOHK, JOCK and JOGK; the 3000watt JOJK; and the 500-watters JOTK, JOLK, JOPK and JQAK. also verified XGOA, being one of the first to hear it over on this side. Two other lucky catches were the 3000 ZBW in Hong Kong and 8WMC, a 500-watter in St. Johns, Nfld.

"One of my rare veries was from RXKR, the famous transmitter locacted on the S. S. City of Panama. Shortly afterwards, I got HHK in Santo Domingo, followed by HIX in Port au Prince; HJI, Bogota; WNEL and WKAQ in Puerto Rico; and a fine diploma from LR5. My other Argentine verie came from LR1, heard on a regular broadcast.

"Trans-Pacific stations were always fascinating, and I have spent many hours tuning the elusive Aussies and Zedders. To date, I have verified six stations in New Zealand—2Ya (then using 5000 watts), 1YA, 3YA, 4YA, 2YC and 1ZB. In Australia, I have a total of 19 veries, including 3AR, 3LO, 4QG, 4RK, 2BL, 4BC, 4BH, 6WF, 3UZ, 2CH, 7UV, 4BU, 2GF, 2LM, 4IP, 2WL, 4AY, 2KO and 4BK. Several of these were 500-watters and three—4BU, 2GF and 4IP—used but 100 watts.

"On this continent, there have been several good catches such as KFPM with 15 watts, WTRC and WEXL with 50 watts, and 100-watters from all over the Midwest and Southwest.

"All of these were heard on my two-tube receiver. Some of them were only heard once, while others pop up every once in a while. At any rate, I wouldn't part with my set for anything in the world—and I think you will agree that I have good reason."

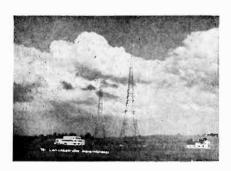
# Unsatisfactory Veries

Many DXers have been complaining in recent years that the stations are issuing verifications which are decidedly inferior in quality as well as quantity. Typical complanit is that made by J. W. Brauner, 17 E.

Spring St., Williamsville, N. Y.

"The replies received today do not compare with those of a few years ago," he writes. "I find that at least two reports are required before you get any kind of a reply, and half the time that reply will be but a few words typed on a post card. Eight or ten years ago, a report usually brought a personal letter. I know that I, for one, am about ready to discontinue reporting to stations on the broadcast band. In fact, if I didn't have a large collection of Ekko stamps, and desired to keep it up to date, I would have stopped already. A verie is needed to get a stamp, so I spend hours writing out my reports (usually a full page of data), enclose a three-cent stamp, and then wait in hopes of a reply. As a typical example—in April I reported to WGAU, in May to WBRK, KWOC and KFAM, in June to WGIL, and in July to KPAB. To date, KWOC has verified with a typed post card and WGIL with a nice letter. The others have not as yet replied."

It is true that many stations today all but ignore the DXer in search of a verification. In some cases, the fault lies with the DX fraternity as a whole, because of the many listeners who persist in violating all the rules of the game. Instead of intelligent reports with an enclosure of stamps for a reply, the stations are receiving blunt demands for a verie. frequently written on post cards with no provision for return postage and containing little information which can be used by the stations. broadcasters do not have the facilities for prompt handling of the DX mail, as is usually the case with many of



Radio station Beromunster, in Switzerland. Using 100 kilowatts, this powerful stations works on 556 kcs. and has been heard in the United States.

the small hundred-watters, the original reports are followed up by insulting letters with all manner of threats in case the verie is not forthcoming immediately. Small wonder that existing stations frequently become disgusted with the high-handed tactics of some night owls.

Furthermore, many new stations go on the air with engineers and office staff recruited from other broadcasters. If the personnel had unfavorable opinions of DXers from previous contacts, it is likely that listeners will receive small consideration from the new station. And so it is that a few unfortunate experiences with DXers at one station can sour an official to the extent that he will carry the prejudice to other broadcasters and create a definitely cool attitude.

It is really too bad that the actions of a few inconsiderate night owls can bring the whole DX fraternity into disrepute, yet such has been the case time and again. When stations become lax with their replies and even ignore DX mail, it is up to organized DXing to bend over backward in an

attempt to re-establish friendly relations. This requires missionary work of the highest caliber, one which is perhaps best suited to a special committee of a radio club.

While it is true that a typed post card is not nearly as satisfactory a verification as a personal letter on a station letterhead. DXers have no real kick. After a!! many stations must keep expenses down to a minimum and it is a real concession when they take the time and money to issue even a post card verie.

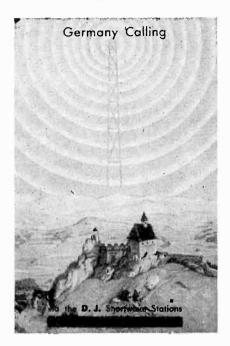
In this connection, however, it is worthwhile to suggest a bait to which not a few stations respond. The enclosure of a stamped, addressed envelope with a report frequently brings a personal letter on a letter-head, whereas mere postage would bring a card.

### Gets His Veries

One listener who has had really remarkable success in verifying his catches is Joseph J. Becker, St., 415 S. 11th St., Hamilton, Ohio.

"It has been a long time since I wrote in to you folks," he admits, but the old Hamilton Night Owl is still in the DX game and I consider it my No. 1 hobby. I have been at the game since March of 1930 and on the broadcast band I have heard 1152 stations, of which 1148 are verified. Only KYSM, WHLS, KDNT and KXOK have reports still out, so there is a swell chance to make it one hundred per cent verified.

"I am still using my Model 318 8-tube Atwater Kent receiver, my aerial is the same inverted-L that I put up eight years ago, 90 feet long and 35 feet high.



This pretty card verifies reception of the German shortwave stations. The aerial is dark green, and the radiations light green. This picture in the foreground is in natural color—purple mountains in the distance, and green slopes surmounted by a redroofed castle. (Courtesy of J. R. Hahn).

, The new season will soon be going full tilt and I'm hoping that we DX hounds will get a break from the weather and atmospheric conditions. Can't help but wonder if any more all-nighters will come on the air during the fall and winter. They certainly drive us to distraction and I wish something could be done about them.

"About two years ago there were only 12 active BCB stations in the United States which I hadn't verified. However, since the FCC got busy and handed out so many construction per-

mits, I now need 64 stations to complete the country. Of course, some of these are not as yet on the air."

"The old fingers are starting to itch for the dials once more," observes Fred Burleigh, 142 Converse Ave., Meriden, Conn., "and it won't be long before the stations start to roll in again. Was tuning near the top of the dial at 8:12 p. m. tonight and ZNS, Nassau, was coming through R6-7."

"Well. I soon will have the old cans on my ears once more," promises John J. Oskay, R. D. 1, Box 179, Piscatawaytown, New Brunswick, N. "At present I am getting ready for the new season and will be starting right on time. I expect to have a new antenna soon—a V-type with the apex pointing North, the lead-in taken from one leg at the South end, and a total of about 125 feet of wire. A new ground was installed recently, and I have a base plug arrangement for a plug-in aerial and ground system. I am planning to get a new receiver soon—perhaps an RCA 155 9-tube communications job. then have three sets in use in case of a break-down—two A. C. sets and a battery model in case the power should fail some time.

"I think we are going to have an exceptionally good DX year. In June and July of this summer, there were several occasions when the West Coast stations came in very well. In the middle of August, I found one Sunday morning when DX weather was just about perfect and practically everything on the air was coming in KFI, KNX, KSL, KOA, KFVD and KFAC were pounding in mid-winter style—the first four being R9 and the

latter two R6-7. The Mexicans have been knocking the phones off my ears and the Cubans are knocking off the locals as early as 8 p. m. Looks good to me!"

# Radexers Report

"I have just lately settled down to real DXing," advises Stanley S. Troth, Box 182, Phillips, Texas. "My first entry in the log was made on July 28th of this year, and since then I have heard 69 stations on the broadcast band. One of my best catches is XEAO at Mexicali, B. Cfa."

"At present I am attending Rensselaer Polytechnic Institute," writes Robert Koppelon, Hearne 24, Ave. B, Troy, N. Y. "I am using a fourtube Philco which isn't very selective, but is quite sensitive. An aerial 150 feet long is necessary to receive the New York stations, the three locals here not providing satisfactory daytime programs. I can receive any of the larger New York stations during the day, as well as the more powerful stations in Connecticut and Massachu-These come in with local volsetts. Stations such as WNEW and WINS are close behind. Stations as far West as WHO have been heard at noon, while WLW is regularly received. The best before-sundown so far is WAIR behind WNEW, while stations such WBRB, WITN, WEBR, WKAV. WNBF, WMEX, WFAS, WCAM, WTNJ, CJCB, WGNY, WTHT and WIBX are heard frequently. During the evening, I can hear stations at every point on the dial. Not bad for a four-tuber!"

"I started DXing in 1936," submits Nicholas R. Evangelista, Box 96, West Hamburg, Pa., "and my log

now shows more than 600 stations heard, with 320 of them verified. Some of my better catches are KLS, KHJ, KVOD, KID, KANS, KOH, KLAH, KDLR, KWJJ and KWSC in the United States, and KGMB, KGU, LRI, JOSK, CMGE, TGW and ZNS in other countries. All of these listed catches have been verified with a sixtube 1935 Silvertone battery receiver."

"DX hasn't been so bad after all," admits Edward Hirsch, St. Albans, L. I., N. Y. "I checked over the verifications received up to date, and they number well over 40 to bring the total up to 268. The greatest thrill of the past year was to receive cards from Spain and Switzerland the same morning. Reception has been fair, with KNX, KSL, WAAB, WWL, WHO and others roaring through a terrific bombardment of static. I am looking forward to a gala season soon."

"Although I started DXing more than two years ago," offers Robert Craddock, 1207 Idylwild St., Houston, Texas, "my log is still comparatively small—only 142 stations heard and about 33 veries. Some of the best catches includes TGW, XEMO, WCAU, WBZ, KFI, KSTP, XEFO, WISV, WTIC, WIR, WBAL, WCCO, KDKA, WISN, WRVA, CKLW, WHAM and KNX. My receiver is a four-tube midget, so this record isn't so bad.

"Recently I listened for half an hour to a station which announced as KICE in Kansas City. It came in where I usually hear KXBY. Also, a friend who recently visited Houston from Oklahoma City said that there was a new station in that city, although I can find none listed. Can

you help me identify either of these?"
The station in Kansas City actually was KITE, the new call for KXBY.
We have no record of a new station

in Oklahoma City.

"I have been DXing since the beginning of radio broadcasting," reminds Joseph T. Lippincott, Box 2, Tufts College, Mass. "I built simple crystal sets, and then up to threetubers, between 1920 and 1927. never verified stations then. ever, in 1935, I started listening on a five-tube set, and then in the fall I got a Hallicrafters seven-tube model on which I really started to DX. My first foreign catch was Fecamp, but I didn't try for other TA's at first. Since then, I have been more active and have learned much. My log now includes 41 TA's (most of them heard last winter), about 12 or 15 SA's, and a like number of TP's. Among the better veries are Klagenfurt, Rennes, Paris, 3YA, LRI, LR5, PRF3 and TIPG. Fifty-two of my veries are more than 2000 miles distant, while the total stands at 379 verified. Many reports are still out and I have hopes for the best."

## Latin Americans Lax

"I don't believe it best for DXers to send reports to Latin American stations," states Clifford Drain, 617 Camden St., Parkersburg, W. Va. "At best, they are unreliable. Some of them verify and they sure put gray hairs in your head. I have reports out to about thirty of them and don't expect confirmations from more than half—and that is a rather high estimate. It certainly is disappointing that stations such as HJ1ABJ and HJN failed to verify for me. They would have made new additions to a

verified log which included LR1, LR3, LR4, LR5, LR6, LS2, YV1RC, CP4, CX26, 1YA, 4YA, 2BL, KGU, KGMB, Berlin, Frankfort, Leipzig, Trieste, Turin, Milan, Bordeaux, Poste Parisien, Rennes, Radio Normandie and CT1GL."

Failure of foreign stations to verify reports undoubtedly will remain a thorn in many a DXer's side, and the Latin American stations seem to have a reputation for their disregard of letters from DXers. Apparently there is little to do about the situation, and the distener's one resort is the "try and try again" formula.

"My BCB log now stands at 802 stations heard, about 725 verified, and reports out to several," advises Jim Walker, Box 206, Romney, W. Va. "The best DX so far is the 50-watter KRKO as well as KHBC, KGU, KGMB and several Europeans. No TP's as yet! The old RCA is about worn out after four and a half years of steady DXing. Veries finally came in from WHJB, WIP, KFAB, WFBG and WLVA, but none from KSOO, WPG, WSAY or WHN."

"Some of the stations heard on my five-tube set," postcards Bob Vernon, 1125 34th St., Sacramento, Calif., "are WSB, WOR, WJR, WGN, KTHS, CJRM and KFYR."

"Heard KOH in Reno the other day to complete the list of states heard," mentions Richard Wright, 5762 Harper Ave., Chicago, Ill. "A card from WDEL leaves but two states for me to have at least one varie—Maine and Nevada."

"Since August 1st I have been doing quite well on the broadcast band," reports Leon Grossman, 52 O.K. Terrace, Rochester, N. Y. "Despite heavy static and interference, I have logged WBRK. WMC. WSPR. WDAF. KANS. XEBG, WIBW,, WEBO. This raised my KGFI and KGHI. total heard to 259."

"Reception here this summer has been nearly as good as in the past couple of winters," asserts John D. Chamberlain, 190 Gregory Hill Rd., Rochester, N. Y. "This makes me believe that we have a real DX season ahead of us. TGW on 1520 has been coming in quite frequently during the summer months. WSAY in this city has been using 250 watts daytime, 100 watts nights, and is now on a regular schedule until 12:30 a.m., EST, daily."

# Logging Stations

DXers have used many methods in increasing their total of stations heard. They have logged everything within range during daytime hours. They have combed early-evening frequencies, roamed the midnight airlines for special DX and test programs. But a new wrinkle is brought forward by H. E. Ziegler, Jr., 2 Cedar Lane, Merion Sta., Pa., who has had no little success by concentrating on election reports from states where primaries have been run.

"The recent elections in Illinois and Arkansas have been good for several new catches," he reports. "I found several stations broadcasting late returns and have logged, among others, WDWS, KLRA and WROK in this manner. WSFA has been heard almost every night with a description of a ball game.

"Before last season started, my BCB log stood at about 200 verified. Now

it shows 470 out of the 700-odd stations in the United States, which is a pretty fair increase. My best verie to date was in the form of a beautifully engraved letter from CKTB, St. Catharines, Ont. The West Coast stations have been better than the previous year, with several such as KEX, KGER, KMO, KFPY, KGA and KHQ coming in very well."

The erection of the new station at Kenora, Ont. has commenced. It will have the call letters CKCA on 1420 kcs. Studios will be in the Hotel Kenticia.



Believing in preparedness, Lucille Wall, NBC dramatic actress on the "Your Family and Mine" program on the NBC-Red Network, has already selected her first Fall hat. It has the newest of high crowns and is made of homespun wool in bright red, yellow, gray and white.

# **Questions from Puzzled Readers**

#### Dial Is Off

I HAVE A 116 PHILCO. WHEN THE SET IS HOT, THE DIAL IS OFF 5 POINTS, BUT THIS HAS GRADUALLY INCREASED IN 5 MONTHS UP TO ABOUT 8 POINTS. FOR INSTANCE, 15.20 NOW COMES IN AT 15.28 ON THE DIAL. A RADIO SERVICEMAN SAYS HE CAN FIX IT AT \$1.50 PER HOUR FOR SEVERAL HOURS. BUT ANOTHER MAN SAYS ITS NO USE TO ADJUST THE DIAL, AND THAT THE TROUBLE MAY CORRECT ITSELF WHEN WINTER COMES.—G. S.

Answer. We think that you are fortunate that your set has not drifted off its stated dial readings more than 8 points, for from your interpertation, it seems that the reading is just 8 kilocycles off. However, a set has no reason to leave its fixed tuning position gradually through the months unless something is wrong, either mechanically or electrially.

In some cases we might suspect the dial. All-wave dials are complicated, and the tuning is so sharp on the short waves that a very tiny slippage of the dial on its shaft will turn out to be many kilocycles off the regular tuning. Perhaps the dial set-screw is not firmly screwed in place, or the dial has become forced against the stop at the end of its movement and causes strain.

Trouble in the oscillator, or failure to "track" properly, is electrical. If this is the case, we suggest that you take the receiver to a competent service man. As to the charges made, we can not say whether they are too high, since there are often certain circumstances which govern these cases. We suggest however that you take the set

## . By THE TECHNICAL EDITOR

to the shop and have the work done there rather than in your home.

#### Set Fell Down

My Philo 630X was accident-ALLY PUSHED OFF A TABLE ONTO THE FLOOR. ALL THAT SEEMED NECESSARY WAS TO REPLACE THE SLOW MOTION KNOB FOR SHORT WAVE TUNING. BUT MORE RECENTLY I HAVE REPLACED THE VOLUME CONTROL WITH A NEW ONE. NOW, WHEN THE CONTROL IS SET TO THE MINIMUM POSITION THE VOLUME IN THE SPEAKER IS STILL AUDIBLE. THEN, WHEN THE CONTROL IS IN THE MAXIMUM POSITION THE VOLUME FROM THE SPEAKER IS NOT NEARLY AS LOUD AS IT USED TO BE. THE SPEAKER CONE WAS ALSO RE-PLACED RECENTLY.—H. G. F.

Answer. It appears that the severe jolt this set received when it fell either damaged or bent some part or opened a circuit. This could be in the volume control circuit. Since you replaced the control it is assumed that the proper value was used. A Yaxley TRP608 control of 1 megohm tapped at 200,000 ohms is suitable if you cannot get a factory replacement easily. One terminal must be grounded to the chassis.

Damage to the speaker cone would not account for the control not silencing the set entirely when on the minimum position, and it looks as if your new replacement was not of sufficient resistance. We suggest that this be examined by a competent serviceman who can check all the voltages at the tube sockets, speaker and control. If damage has been done to a transformer or the speaker it will be

indicated, but if damage was done to the tuning circuits such would be noticed at once in the tuning of the set.

# Shortwave Adapter

I am interested in obtaining in-FORMATION ABOUT THE FLEWELLING SHORT WAVE ADAPTER, AND HOPE YOU CAN GIVE ME DATA ABOUT IT AND HOW IT IS USED. IF YOU CAN SUPPLY THE CIRCUIT, IT WILL BE APPRECIATED. ---R. W.

Answer. The Flewelling short-wave adapter, like most of those earlier types, consists of a small short-wave receiver.

Shortwave adapters are seldom uned today. If a person owns a broadcast receiver having only the one dial and band, the short waves can be picked up more satisfactorily by means of the short-wave converter. This is a short-wave receiver, too, like the adapter, but it has an additional oscillator tube so that the high frequencies of the short waves can be heterodyned with the oscillator and reduced in frequency to some wave length that falls within the tuning range of the broadcast set. Frequently this output frequency of the converter is approximately 600 kcs. We regret that we do not have specific data on the Flewelling circuit and adapter. Information about short-wave converters can be found in these columns in preceding issues.

# Charging Storage Cells

WE HAVE A 250 VOLT DIRECT CUR-RENT LINE AT OUR PLACE AND I WOULD LIKE TO KNOW HOW TO CHARGE STORAGE BATTERIES FROM IT. IF YOU CAN TELL ME IT WILL BE A BIG HELP.—B. J.

Answer. Charging storage batteries from high voltage direct current lines is a relatively simple matter. Of course, a storage battery, usually assembled in three cells, has a potential of 6 volts. If this were connected to the 250-volt line, it would be almost a dead circuit, and must not be done. Now, the charging current for a storage battery can vary between 1 and 5 amperes an hour, the lower rate require, many more hours for charging. A 100-ampere battery will require about 100 hours or more to charge it fully.

We suggest that you obtain sufficient light bulbs so that when in series the total 250 volts, or you can procure a 250-volt bulb from the larger ciectrical supply houses. these bulbs equal 250 watts that means they will pass a current of one ampere. Connect the bulb in series with the storage battery, and when the power is turned on a current of one ampere will pass through the battery to reach the lamps. If more current is needed to charge the battery, then you must connect a second set of similar lights in parallel to the first lamps, and this will double the amperage flowing through the circuit. Be sure the positive and negative terminals of the lighting circuit are attached to the same posts of the storage battery.

### Set Plays Without Tube

I HAVE A MIDWEST RADIO WITH 18 TUBES. I CANNOT GET A SOUND ON THE ULTRA SHORT WAVE BAND, AND WHEN I LEAVE A TUBE OUT OF IT THE SET PLAYS JUST THE SAME AS IF THE TUBE WAS IN THE PROPER PLACE. PART DOES THIS SERVE IN THIS RADIO AND IS IT NECESSARY?—M. P.

You have Answer failed mention the function of the tube which you have removed, but in this set there are four power tubes, two pairs in push-pull. If one of the parallel pair is removed it will have little effect on the performance of the set unless great volume is being used on high notes. The purpose of the pair in parallel is to double the currentcarrying capacity to the speaker. Many sets now use this arrangement in order to get high fidelity and perfect reproduction at great volume. It is very likely that you have removed one of these tubes.

The fact that the set does not respond to the ultra short waves does not mean that the receiver is failing properly to work. The very short wave bands are erratic, and it frequently is difficult to pick up signals. If you are concerned with the 5-meter band and lower, it is useless to try it unless some transmitting station is near by. As a rule, these very short waves travel in straight lines, and have the same range as the human vision, but there have been some strange exceptions. We do not, however, expect very much on the very short waves on ordinary radio sets. On the 10-meter and higher bands, of course, your receiver should prove quite effective. The lack of signals on the 10 and 20 meter bands, and other slightly higher, may be due to the failure of the oscillator tube to generate frequencies high enough to bring in these signals. Try a new oscillator tube. Other than that, expert examination of the coils and tuning will be in order.

#### Television

CAN YOU TELL ME SOMETHING

ABOUT TELEVISION APPARATUS WHICH TRANSMITS SOUND TO A PERSON AND ALSO REFLECTS WHAT, A PERSON SEES? I WANT TO KNOW IF THE BEAM IS PLACED ON THE INDIVIDUAL AT A DISTANT POINT SO THE PERSON CAN SEE HIM. THIS IS NEEDED FOR SOME EXPERIMENTAL WORK I WISH TO DO.— E. O. E.

Answer. So much is being done on television at the present time that in order to go into it one would need to write a book. We suggest, therefore, that you inform yourself of what has been published and make a study of these texts for your guidance. However, we think the best publication you can get just now, which covers recent developments, is the book "Television," published by the RCA Institutes Technical Press, 75 Varick Street, New York, N. Y. It is in two parts, No. 1 and 2, and perhaps part 3 is soon forthcoming. Inquiry to the above address will bring you information about costs.

#### Rebuilding Old Set

I HAVE A GENERAL MOTORS MODEL 140A RECEIVER WHICH I WISH TO REPAIR OR REBUILD INTO A SUPER-HETERODYNE SET. IT NOW HAS A TERRIFIC HOWLING AND THE VOLUME CAN NOT BE TURNED UP ON ANY DISTANT STATION. WITH LOW VOL-UME LOCALS CAN BE HEARD BUT WHEN TRYING TO GET DISTANCE IT STARTS OSCILLATING. WHERE CAN ! GET A DIAGRAM OF THIS CIRCUIT?-A. T. S.

Answer. In the first place we suggest that you forget the idea of rebuilding this set into a modern superheterodyne. It would be difficult, require many replacement parts, and

still give certain troubles. It would not be worth the labor and expense. However, the set could be put into first class condition so it can be used as it is.

Oscillation or howling in these sets has been characteristic. Perhaps if you were to install a 25,000 ohm resistor, small size, between screen lead or socket contact of the third radio-frequency tube and the chassis, this oscillation would be checked. Bad contacts, of course, always start noise in these sets. Look for dirty or imperfect contacts in the rotating unit of the condenser-gang. Tight, clean contacts are urgently necessary. Look for loose screws and fastening in and around the tuning condenser gang. Clean all parts. Check all joints and re-solder any that may seem worn or loose. the poor control of volume it might be well to replace one or all type 24 tubes in the r-f stages with the more efficient type 35, providing, of course, that the volume control is good. You can replace this control with a new "Yaxley", type DRP309, which is a dual control, carbon type, having 12,000 ohms in one section and 65,-000 ohms in the second section. Sometimes, an entire new set of resistors in a noisy set has effected a cure. We are sorry, but a circuit diagram of this receiver is not available, and the present address of the "Day-Fan" makers is unknown.

### Crescentyne Radio

I HAVE A CRESCENTYNE RADIO THAT WAS VERY EXPENSIVE WHEN ORIGINALLY PURCHASED. CAN YOU SEND ME A WIRING DIAGRAM SO IT CAN BE OVERHAULED AND PUT BACK INTO THE SHAPE IT USED TO BE? IF

YOU CAN GIVE ANY ADVICE ABOUT REPAIRING THIS SET, IT WILL BE WELCOMED.—W. M.

Answer. You might try writing the Crescent Radio Mfg. Co., 3026 32nd Avenue S, Minneapolis, Minn. This is the only record we can find of the makers of a set with name similar to yours. Years ago there were many manufactures of radios in local areas, and data records of their products did not reach the files of radio associations. Therefore, we are unable to furnish you with a circuit diagram. If the set is as good as it appears, a good cleaning and testing of the voltages on the tube sockets to discover whether defects exist in the transformers, tubes, coils. resistors and condensers, will get it in shape to have a new alignment and adjustment made by a competent service

### **Power Consumption**

I WOULD LIKE TO KNOW THE POWER CONSUMPTION OF MY VICTOR R52 RECEIVER. I BELIEVE THAT THE POWER OUTPUT IS ABOUT 3.2 WATTS, BUT AM NOT SURE.—C. E. S.

Answer. This receiver has ten tubes; six of which are 26s, one is a 27, two are 45s, and one is a type 80 rectifier. The power needed to operate these tubes at normal consumption is actually 28 warts. In addition, each tube, in its plate circuit, consumes a certain number of watts. These added together give us about 12 watts, and this includes an output in the power or audio circuit of about 3 watts. Altogether, we have about 40 watts. Losses, due to inefficiency of transformers, heat dissipation from resistors, tubes, etc., will

(Please turn to page 42)

# Across The EDITOR'S DESK

In response to popular demand, we are listing, in this issue, all the broadcating stations of the world. This is a departure from our usual custom of indexing the stations of only one continent each month, but we believe that this complete directory will prove even more useful than the continental rostors. While the list shows only those stations which use one kilowatt or more of power, we do not believe its value has been lessened by the omission of the smaller stations. All the smaller stations are shown, or will be shown, in the continental lists.

Although the foreign broadcasting station index this month is world-wide in scope, the acent in November is on Europe. Articles by Mr. Lord and Count de Veries point out the Europeans which are most likely to be heard, and give pointers on how to hear and identify some of them. All of our readers who are provided with a radio set in good condition, and a decent aerial, should hear at least one overseas broadcaster during this season if Mr. Lord's instructions are carefully followed. Readers who missed our October issue should be sure to get one, and read Count de Veries column, which explains in great detail, the major points of the Art of Tuning.

### Return Postage Bureau

From a monetary standpoint, we believe that DXing is the least expensive of all incobies. Nevertheless, for some DXers at least, the cost of verifying stations is a considerable item when one invests in 5 cents for foreign postage, and 9 cents for an International Reply Coupon, for each confirmation requested. For this reason, the Return Postage Bureau was formed, to save

radio fans as much as possible on their postage bills.

The Bureau offers unused postage stamps from many of the foreign countries, at prices but slightly above the face value. These postage stamps can be sent, instead of International Reply Coupons, when requesting verifications. The prices are shown below:

3 cents each: Canada, Cuba, Dominican Republic, Mexico.

4 cents each: Belgium, Chile, England, Irish Free State, Northern Ireland, Switzerland, Peru.

5 cents each: Antigua, Barbados, Colombia, Costa Rica, Netherland, East Indies, Egypt, Haiti, Jamaica, Panama, Newfoundland, Philippines, San Salvador, Trinidad, Urumay

6 cents each: Australia, British Honduras, British Guiana, Algeria, French Morocco, France, Denmark, New Zealand, Poland, Roumania, India, Bahamas, Northern Rhodesia, Bermuda, Southern Rhodesia, Argentina.

7 cents each: Union of South Africa, South West Africa, Sweden.

The Bureau will pay the postage on orders in excess of 50 cents. Their address is the Return Postage Bureau, 85 Francisco Ave., Rutherford, N. J.

### Radio Clubs

Radio Clubs are invited to send us information about special programs which they arrange in advance. This information will be printed, and fully credited to the proper clubs, in our DX Calendar. Data on special programs can be included in our calendar up to the tenth of the month preceding date of publication. That is, information for the December issue can be used if



Station KWG of Stockton, Calif. uses this card to verify reception of their station. KWG transmits on 1200 kcs., and employs 100 watts of power. (Card by courtesy of A. C. Tarr).

received by November 10th, which is the date on which our December issue will go to press.

Going to press on the tenth of the month, and in the mail on the 20th, RADEX is only ten days in the hands of the printers and binders. This, compared with thirty days for most magazines, makes RADEX the first with the news, every month.

### Television

Talk about television comes in cycles, like the sun spots. When the National Broadcasting Company ceased their experimental transmissions, thoughts of television ebbed away and we almost forgot there was such a thing. But now, with the NBC resuming their regular experimental broadcasts from the Empire State Building, and the announcement of a new television set, comes further word of a new invention by Vladimir Zworykin, an invention which promises to do away with the need for the expensive coaxial cables, now necessary for transmission of picture over large areas. This new development, it is reported, allows the transmission of ultra-high frequencie over distances beyond the range of normal vision; at the present time it is not considered possible to transmit television beyond twenty-five or thirty miles, or about as far as a person can see from a high point, such as a mountain top, or a tall building.

### International Communications

A Division of International Communications has been formed, as a part of the State Department. This Division will have the task, among other things, of drafting treaties with foreign nations on aviation, shipping, radio, movies, telegraphs, telephones and cables. We naturally have cause to wonder how much this new division is going to effect the Federal Communications Commission, particularly as regards international broadcasting. We hope that the present short wave set-up in this country will be allowed to remain unchanged.

### Keeping Awake

How do you keep awake when tuning for elusive DX in the wee hours of the morning? Some of us drink coffee—lots of coffee—in our endeavor to keep our eyes open between station announcements. Some DXers read, others write letters, and some are lucky enough to hear a parade of new stations that is interesting enough to make them forget about sleep. If you have any "pet" scheme for staying awake while the DX is dull, we should like to hear about it.

### Thanks

For photographs used in RADEX this month, we thank the following contributors:

Jerry Hahn, A. C. Tarr, Landessender Beromunster, Radio Rennes, Arthur M. Hankins, Ray Sahlbach, Amando Cespedes Marin, Reichssender Frankfort, Station WGY, and the Helsinki radio station.

Everyone who submits a photograph which is used receives a free copy of the issue in which the picture appears, or if he is a subscriber, his subscription is extended an additional copy.



Sobeleski, 406 N. Second Minersville, Pa. (SWL cards).

J. I. Vaught, Box 1424, New Orleans, La. (SWL) cards).

Merton M. Hiatt, Box 7, Dryden, Wash. (SWL cards).

Jack Wells, 1000 14th St., Phoenix City, Ala. (Exchange cards and newspapers with foreign listeners).

Joseph J. Becker, Sr., 415 S. 11th St., Hamilton, Ohio (SWL cards).

Ivan Witty, 18 Park St., Lynn, Mass. (SWL cards).

Wm. Gillman, 717 Melvin Ave., Cuyahoga Falls, Ohio (SWL cards).

Roy DeMent, Box 206, Plainview, Texas (SWL cards).

David Hill, 1516 Varnum St., N. W., Washington, D. C. (SWL cards).

Gordon Myles, Court House, Water St., Kenora, Ont. (correspondence).

George Poulain, 67 Mt. Pleasant St., Sydney, N. S., Canada (SWL cards).

Champlain, 7 Washington Denison Ave., Westerly, R. I. (correspondence).

Kenneth F. Murphy, 3 Harvey St., St. Johnsburg, Vt. (correspondence).

# Amateur Calls Heard

The names and addresses of persons reporting stations shown in this list are indicated by small letters following the callsigns. Key to the small letters is given at the end of the column. are listed only if reported by more than one listener.

### TEN METERS

TEN METERS

CO2KL (u); G2KU (u); G6BW (u); H17G

(ru); HR5C (r); K4EJF (r); K4ENT (u);

K4FAB (r); K4EZR (u); K4SA (gu); K4EIL

(g); K4EMG (g); LUIDJ (ru); LU4AD (r);

T12FG (r); T13AV (u); VK2GU (r); YN3DG

(ru); YV1AP (ru); YY5ABY (u);

TWENTY METERS

CN1AF (bg;u); CN8AM (nur); CN8MU (nst);

CO2HS (fgl); CO2LY (bf); CO2WM (efu);

CO6OM (fk; CO7VP (fgu); 608BC (fu);

CO8RO (gpu); CT1AY (nr); CT1ZA (rt);

(A2AK (fs); EA9AH (bcou); E12L (cglrsiu);

E16G (fgm); FA3HC (sr); F3DI (ss); F3LW

(br); F3MF (nr); F3OX (ssu); F8UE (bnrt).

GM6RC (bmr); GM6WD (ru); GM8MN (bcmr); GM8RG (lm); GM5TJ (nu); G2AL

(amnru); G2TR (grt); G2UT (aru); G2XV (psu);

G3BM (br); G3FA (mnu); G5LW (ru);

G5BM (bmsu); G5LU (ru); G5LW (ru); G5BM (bntu); G5LU (ru); G5LB] (efmru); G5BM (bmtu); G5LU (ru); G5LW (ru); G5ML (afgnu); G5NI (jmp); G5QN (ptu); G6BW (bu); G6GF (bm); G8CL (bm); G8IX (bru); G8UJ (gru);

(bru); (BVJ) (gru);
HC1FG (kpru); HC1JW (adu); HC1PZ (fu);
HC2HP (crs); HH2PB (pr); HH4AS (ru);
HH3PA (bfpru); HH3N (fbru); HI5X (fhpru);
HH7G (eflopr); HK3LC (brsu); HK4AG (fp);
HR2A (ru); HRSC (gr); KA1ME (dki);
KA1MG (ad); KA2OV (ast); K4FAY (ru);
K6FKN (su); G6GAS (acq); K6MTE (as);
LU4BC (dmru); LU4BH (apu); LU7AC (fk);
LU8AB (brssu); LU8AC (fr); NY2AE (cfopu);
ON4AM (kmnrt); ON4ANW (nstu); ON4V(pst); PAOMZ (bglm); PK6XX (drst); PY1FR (fbmsu); PY2CK (rsu); PY2ER (ru); PY5AQ (ur).

(ur).

SVIKE (rt); TG5 (gru); TG9AA (fr)
T12AV (dgr); T12LR (gbu); T12RC (apu)
T12AV (pru): VE5ACN (dq); VE5KC (dq)
VE5VP (dq); VK2ABD (ak); VK2AGU (dni)
VK2BQ (adk); VK2NS (defiriu); VK2VV
(etu); VK3EH (as); VK3WA (adn); VK4YI
(fru); VK4JU (ads); VK4VD (aefst); VP1B.
(gmr); VP7NS (su); VP9R (fp); VR6AV
(dfint); XE1CQ (fu); XE1GE (adf); XE1G
(dg); VJ3AA (ctu); VP6FO (fnuu); VP6YI
(ru); XE1GK (du); XE1LK (adb); XE1C
(cfqru); XE2IK (fru); VV1AB (kac); VIII. (fr); TI2RC (apu); VE5KC (dq); VK2VV VR6AY XE1GF VP6YB (ru): XEIGK (du): XEILK (adb): XEIQ (cfqru): XE2IK (fru): YVIAP (kpr): YVIAP (kpr): YV1AQ (bdblu): YV4AB (pr): YV4AE (fu): YV5ABA (su): YV5ABQ (ru): YV5ABY (mru): ZS1AK (dst): ZS5AW (ds): ZS5BZ (dt) YV4AE (as); ZS5BZ (as).

THE REPORTERS

(a) Elwin H. Covey, Route 2, Box 3540-A, Napa, Calif. (b) Robert Davidson, 187 Woodside Ave., Newark, N. J.

John B. Ewing, 8 Clinton Ave., Montclair, (c)N. J.

- (d) C. J. Fern, Jr., Lihue, Kauai, Hawaii
- (e) Sam Graham, Panhandle, Texas
- (f) A. N. Hankins, 1006 Ligonier St., Latrobe, Pa.
- (g) Robert Hatcher, 3221 Fifth Ave., Richmond, Va.
- (b) Lewis R. Hill, 2138 S. 16th Ave., Maywood, Ill.
- (i) J. Herbert Hyde, Elmwood, Conn.
- (j) E. A. Knoff, 412 Monroe Ave., N. E., Canton, Ohio
- (k) Stanley B. LaRue, 309 So. Bedford Drive, Beverly Hills, Calif.
- (1) Kenneth Morey, 14 Lawndale St., Easthampton, Mass.
- (m) F. J. Morris, 18 Firstbrook Road, Toronto, Ont.
- (n) Geo. Nahas, 147 Seeley St., Brooklyn, N. Y.
- (0) William Scott, 313 W. Halston Ave., Johnson City, Tenn.
- (p) Leo Sobeleski, 406 N. 2nd St., Minersville, Pa.
- (q) Stanley S. Troth, Box 182, Phillips, Texas
- (r) Walter E. Welch, 46 Parkland Ave., Lynn, Mass.
- (s) Jack Welsh, Kingston, Ill.
- (t) Jack Wells, 100-14th St., Phoenix City, Ala.
- (n) Cyrus Will, 651 Brier St., Kenilworth, Ill.



WGY's new building at Schenectady, N. Y. Built in the modernistic style, with decorations in chromium, it is one of Schenectady's most attractive buildings.

### **Hollywood Studios**

The ultra-modern studios of the National Broadcasting Company in

Hollywood opened on October 17. This building is the final link in a chain of new NBC studios stretching from coast to coast. The new building replaces studios on Melrose Avenue which were outgrown in three years.

The new headquarters is a classical modern structure standing at Sunset and Vine. It is three stories high, and eight individual studies comprise this Hollywood Radio City. Because of its fiowing lines and ethereal green exterior, it has been called Hollywood's most distinctive biulding. The green color was chosen, after months of research, because it represented a perfect transition between the green of the surrounding lawns and shrubbery, and the tropical blue of the California sky.

### Turkey in November

The new Turkish shortwave station is heard with ease in England, we learn from D. H. Dussek of Alton, Hants., who has heard many of their experimental broadcasts. "Radio Ankara," as it is called, with the call letters TAO, is expected to begin regular transmissions during the first week in November. It will have a power of twenty kilowatts, and will operate on one of three frequencies—the frequencies used during the tests being 15180, 14770, and 9670 kcs. TAQ has been heard in English with an R8 signal, at 4 to 7 am, EST. There is a woman announcer who uses several European languages for identification, but appears to use only Turkish during the test transmissions. Programs have consisted of recordings.

Mr. Dussek also reports a new Soviet station, RWG on 14720 kcs.

# The Monthly Frequency Checks

T	ne Monthly Fi	requenc	y Ch	eck:	B
FOR the purpose of	checking the fre-	3:40-3:55	WAYX	1200	Waycross, Ga.
quencies of small	stations which can-		WBLY	1210	Lima, Ohio
not be heard satisfac		3:45-4:00	WDNC WPAY	1500 1370	Durham, N. C. Portsmouth, Ohio
ular daily transmission		3:50-4:05	WAIR	1250	Winston-Salem, N. C.
		3.50		1420	Detroit, Mich.
munications Commiss		3:55-4:10	WMBC KWOC	1310	Detroit, Mich. Poplar Bluff, Mo. Zanesville, Ohio
ly monitoring broadca			WALR	1210	Zanesville, Ohio
group of stations. Fo		4:00-4:15	WMFR WHBB	1200 1500	High Point, N. C. Selma, Ala.
available schedule o			WKRC	550	Cincinnati, Ohio
missions. All time	is am., Eastern	4:05-4:20	WFAM	1420	St. Cloud, Minn.
Standard.		4:10-4:25	WCLE KALB	610 1210	Cleveland, Ohio Alexandria, La.
The Second	Monday	4.10-4.2)	WLBC	1310	Muncie, Ind.
3:00-3:15 WABY 1370	Albany, N. Y.	4:15-4:30	KELD	1370	El Dorado, Ark.
3:05-3:20 WMAS 1420	Springfield, Mass.		WOPI	1500	Bristol, Tenn.
3:10-3:25 WCAX 1200		4:20-4:35	WWAE WACO	1200 1420	Hammond, Ind.
3:15-3:30 WRDO 1370	Burlington, Vt. Augusta, Maine Presque Isle, Maine St. Albans, Vt.	4.20-4 37	WBCM	1410	Waco, Tex. Bay City, Mich. Houston, Tex. Ashland, Ky.
3:20-3:35 WAGM 1420 3:30-3:45 WQDM 1390	Presque Isle, Maine	4:25-4:40	KXYZ	1440	Houston, Tex.
3:30-3:45 WQDM 1390 3:35-3:50 WMFF 1310	St. Albans, Vt. Plattsburg, N. Y.		WCMI	1310	Ashland, Ky.
3:45-4:00 WCAD 1220	Canton, Ohio	4:30-4:45	WSIX KGKL	1210 1370	inashville, Lenn.
3:50-4:05 WLNH 1310	Laconia, N. H.	4.50-4.45	WHBY	1200	Green Bay, Wisc.
3:55-4:10 WIBX 1200 4:00-4:15 WWRL 1500	Canton, Ohio Laconia, N. H. Utica, N. Y. Woodside, N. Y.		WHEF	1500	San Angelo, Tex. Green Bay, Wisc. Kosciusko, Miss.
4:05-4:20 WMBO 1310	Auburn N. Y	4:35-4:50	KCMC	1420	Texarkana, Tex. Cleveland, Ohio
4:10-4:25 KDNT 1420	Auburn, N. Y. Denton, Texas		Whk Wsgn	1390 1310	Cleveland, Ohio Birmingham, Ala.
WBRB 1210	Red Bank, N. J.	4:40-4:55	KRGV	1260	Weslaco, Tex.
4:15-4:30 KPAB 1500	Laredo, Texas		WADC	1320	Akron, Ohio
4:20-4:35 KVOX 1310 4:25-4:40 KFPW 1210	Moorhead, Minn. Fort Smith, Ark.	4:45-5:00	KTOK	1370	Oklahoma City, Okla.
4:30-4:45 WMIN 1370	St. Paul, Minn.	4.50 5.05	WJBK KGFF	1500 1420	Detroit, Mich. Shawnee, Okla.
4:35-4:50 KNET 1420	St. Paul, Minn. Palestine, Tex.	4:50-5:05 4:55-5:10	KFVS	1210	Cape Girardeau, Mo.
4:40-4:55 WBBZ 1200	Polica City, Okia.	5:00-5:15	KMAC	1370	San Antonio, Tex.
4:45-5:00 WFGO 1370 4:50-5:05 KRBC 1420	Abilene, Tex.	5:05-5:20	KAND	1310	Corsicana, Tex. Carlsbad, N. Mex.
4:55-5:10 KGHI 1200	Little Rock, Ark.	5:10-5:25 5:15-5:30	KLAH KIUP	1210 1370	Durango, Colo.
5:00-5:15 KTEM 1370	Temple, Tex.	5:20-5:35	KFXR	1310	Okla. City, Okla.
5:05-5:20 KABR 1390 5:10-5:25 KGEK 1200	Aberdeen, S. Dak. Sterling, Colo.	5:25-5:40	KDLR	1210	Devils Lake N Dak.
5:15-5:30 KFJZ 1370	Fort Worth, Tex.	5:30-5:45	KICA	1370	Clovis, N. Mex.
5:20-5:35 WMBH 1420	Joplin, Mo.	5:35-5:50 5:40-5:55	KGMB KBTM	1320 1200	Honolulu, I. H.
5:25-5:40 WIL 1200	St. Louis, Mo.	5:45-6:00	KRMC	1370	Clovis, N. Mex. Honolulu, T. H. Jonesboro, Ark. Jamestown, N. Dak.
5:30-5:45 WOC 1370 5:35-5:50 KABC 1420	Davenport, Iowa	6:05-6:20	KORE	1420	Eugene, Ore.
5:35-5:50 KABC 1420 5:40-5:55 KADA 1200		6:10-6:25	KOOS	1200	Marshfield, Ore.
5:45-6:00 KLUF 1370	Galveston, Tex.	6:15-6:30 6:20-6:35	KAST KPQ	1370 1500	Astoria, Ore. Wentachee, Wash.
5:55-6:10 KHBC 1400	Galveston, Tex. Hilo, T. H.	6:25-6:40	KFXD	1200	Nampa. Idaho
6:00-6:15 KRE 1370 6:05-6:20 KXO 1500	Berkeley, Calif.	6:30-6:45	KUJ	1370	Nampa, Idaho Walla Walla, Wash
6:05-6:20 KXO 1500 6:10-6:25 KWG 1200		6:35-6:50	KRNR	1500	Roseburg, Ore.
6:15-6:30 KERN 1370	Bakersfield, Calif.	6:40-6:45 6:45-7:00	KVOS KEEN	1200 1370	Bellingham, Wash. Seattle, Wash.
6:20-6:35 KUMA 1420	Yuma, Ariz.	6:50-7:05	KMED	1410	Medford, Ore.
6:25-6:40 KVCV 1200 6:30-6:45 KLS 1280		6:55-7:10	KWLK	780	Longview, Wash. Everett, Wash.
6:35-6:50 KYOS 1040	Merced Calif	7:00-7:15	KRKO	1370	Everett, Wash.
6:40-6:55 KSUN 1200	Lowell Ariz				Wednesday
6:45-7:00 KGDM 1100	Stockton, Calif. Eureka, Calif. San Luis Obispo, Cal.	3:00-3:15 3:05-3:20	WTEL WNBF	1310 1500	Philadelphia, Pa. Binghamton, N. Y. Lynchburg, Va. Grove City, Pa. Pittsburgh, Pa.
6:50-7:05 KIEM 1450 6:55-7:10 KVEC 1200	Eureka, Calit.	3:10-3:25	WLVA	1200	Lynchburg, Va.
6:55-7:10 KVEC 1200 7:00-7:15 KARM 1310	Fresno, Calif.	3:15-3:30	WSAJ WWSW	1310	Grove City, Pa.
7:05-7:20 KGLU 1420	Safford, Ariz.	3:20-3:35	WWSW	1500	Pittsburgh, Pa.
The Second	Tuesday	3:25-3:40 3:30-3:45	WBAX WHAT	1210 1310	Wilkes-Barre, Pa. Philadelphia, Pa.
3:00-3:15 WSJS 1310		3:35-3:50	WRTD	1500	Richmond, Va.
3:05-3:20 WMFJ 1420	Daytona Beach, Fla.	3:40-3:55	$\mathbf{wbbl}$	1210	Richmond, Va. Richmond, Va.
3:10-3:25 WAIM 1200	Anderson, S. C.	3:45-4:00	WBNY	1370	Buffalo, N. Y. Hobbs, N. Mex.
3:15-3:30 WMFD 1370 3:20-3:35 WEED 1420		3:50-4:05	KWEW Whis	1500 1410	Bluefield W Va
3:25-3:40 WINC 1200	West Palm Beach, Fla.	3:55-4:10	WKOK	1210	Bluefield, W. Va. Sunbury, Pa. Altoona, Pa.
3:30-3:45 WRDW 1500	Augusta, Ga.	4:00-4:15	WFBG	1310	Altoona, Pa.
3:35-3:50 WICA 940 WIOD 610	Ashtabula, Ohio Miami, Fla.	4:05-4:20	KRIC WGIL	1420 1300	Beaumont, Tex.
W10D 010	witailli, l'ia.		WOIL	1,00	Galcibuig, III.

	WQAN	880	Scranton, Pa.		WGRC	1370	New Albany, Ind.
4:10-4:25	KŴNO	1200	Winona, Minn.	4:50-5:05	KOTN	15001	Dine Bluff Ask
	WHDL	1400	Olean, N. Y.	4:55-5:10	WFW	760	Pine Bluff, Ark. St. Louis, Mo.
4:15-4:30	KRIS	1330	Corpus Christi, Tex.	,, ,	WJMS	1420	Tennus d Mish
	WEBR	1310	Buffalo, N. Y.	5:00-5:15	KGHF	1320	Ironwood, Mich.
	WIBM	1370	Jackson, Mich.	7.00-7.17	WHDF	1370	Pueblo, Colo.
4:20-4:35	KBST	1500	Big Spring, Tex.	5:05-5:20	KGFI		Calumet, Mich.
	WPAR	1420	Parkersburg, W. Va.	. 7.07-7.20	WTRC	1500	Brownsville, Tex.
4:25-4:40	KSO	1430	Des Moines, Iowa	5:10-5:25		1310	Elkhart, Ind.
1.27 1.40	WCLO	1200	Janesville, Wis.		KHBG	1210	Okmulgee. Okla.
4:30-4:45	KROC	1310	Rochester, Minn.	5:15-5:30	KONO	1370	San Antonio, Tex.
1.70 1.47	WEOA	1370	Evansville, Ind.	5:20-5:35 5:25-5:40	KGKB	1500	lyler, lex
4:35-4:50	KDAL	1500	Duluth, Minn.	5:30-5:45	KASA	1210	San Antonio, Tex. Tyler, Tex. Eik City, Okla. Longview, Tex.
4.51-4.50	WELL	1420			KFRO	1370	Longview, Tex.
4:40-4:55	WHBC	1200	Battle Creek, Mich.	5:35-5:50	KNOW	1500	Austin, Tex.
4.40-4.))	WTAW		Canton, Ohio College Sta., Tex.	5:40-5:55	WMFG	1210	Hibbing, Minn. Midland, Tex.
4.45 5.00		1120	Conege Sta., 1ex.	5:45-6:00	KRLH	1420	Midland, Tex.
4:45-5:00	KRMD Wsau	1310	Shreveport, La. Wausau, Wis.	5:50-6:06	KCRJ	1310	Jerome, Ariz.
4.50 5.05		1370	wausau, wis.	5:55-6:10	KIUL	1210	Garden City, Kans.
4:50-5:05	KNEL	1500	Brady, Tex.		KVOA	1260	Tucson, Ariz.
4.55.5.10	WLAP	1420	Lexington, Ky.	6:06-6:20	KHUB	1310	Watsonville, Calif.
4:55-5:10	KFDM	560	Beaumont, Tex.	6:10-6:25	KSAN	1420	San Francisco, Calif.
	WFAM	1200	South Bend, Ind.	6:15-6:30	KGAR	1370	Tucson, Ariz.
5:00-5:15	KPDN	1310	Pampa, Tex.	6:20-6:35	KSRO	1310	Santa Rosa, Calif.
	WHLS	1370	Port Huron, Mich.	6:25-6:40	KTRB	740	Modesto, Calif.
5:05-5:20	KPLT	1500	Paris, Tex.	6:30-6:45	KJBS	1070	San Francisco Calif
5:05-5:20	WCBS	1420	Springfield, Ill.	6:35-6:50	KSUB	1310	Cedar City, Utah Monterey, Calif. Honolulu, T. H.
5:10-5:25	KGKO	570	Forth Worth, Tex.	6:40-6:55	KDON	1210	Monterey, Calif
5:15-5:30	KFPL	1310	Dublin, Tex.	6:45-7:00	KGU	750	Honoluly, T. H.
	WDWS	1370	Champaign, Ill.	6:50-7:05	KHSL	1260	Chico, Calif.
5:20-5:35	KAWM	1500	Gallup, New Mex.	6:55-7:10	KROY	1210	Sacramento, Calif.
	WPAD	1420	Paducah, Ky.		76.		
5:25-5:40	KGLO	1210	Mason City, Iowa	2 00 2 44	ine	secon.	d_Friday
	WJBC	1200	Bloomington, Ills.	3:00-3:15	WSVS	1370	Buffalo, N. Y.
5:30-5:45	KŘRV	1310	Sherman, Tex.	3:05-3:20	WJAC	1310	Johnstown, Pa.
	WGL	1370	Fort Wayne, Ind.	3:10-3:25	WITN	1210	Jamestown, N. Y.
5:35-5:50	KGKY	1500	Scottsbluff, Neb.	3:1513:30	WBLK	1370	Clarksburg, W. Va.
5:40-5:55	WIBU	1210	Poynette, Wis.	3:20-3:35	WLEU	1420	Erie, Pa.
5:45-6:00	KRBA	1310	Scottsbluff, Neb. Poynette, Wis. Lufkin, Tex.	3:25-3:40	WCAP	1280	Asbury Park, N. J.
	The C-	المستام	Thursday		WSAY	1210	Rochester, N. Y.
	ine se						W/- LL 37:
				3:30-3:45	WDEV	550	waberbury, vt.
3:00-3:15	WKAT	1500	Miami Beach, Fla.		WGH	1310	Waberbury, Vt. Newport News, Va.
3:05-5:20	WKAT Wjrd	1500 1200	Miami Beach, Fla. Tuscaloosa, Ala.	3:35-3:50	WGH WCNW	1310 1500	Newbort News Va
3:05-5:20 3:10-3:25	WKAT WJRD WSOC	1500 1200 1210	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C.	3:35-3:50	WGH WCNW WMBS	1310 1500 1420	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa.
3:05-5:20 3:10-3:25 3:15-3:30	WKAT WJRD WSOC WAML	1500 1200 1210 1310	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss.		WGH WCNW WMBS WFAS	1310 1500 1420 1210	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35	WKAT WJRD WSOC WAML WPRA	1500 1200 1210 1310 1370	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R.	3:35-3:50 3:40-3:55	WGH WCNW WMBS WFAS WMBG	1310 1500 1420 1210 1350	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40	WKAT WJRD WSOC WAML WPRA WPAX	1500 1200 1210 1310 1370 1210	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.	3:35-3:50	WGH WCNW WMBS WFAS WMBG WOKO	1310 1500 1420 1210 1350 1430	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM	1500 1200 1210 1310 1370 1210 560	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.	3:35-3:50 3:40-3:55 3:45-4:00	WGH WCNW WMBS WFAS WMBG WOKO WRAW	1310 1500 1420 1210 1350 1430 1310	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP	1500 1200 1210 1310 1370 1210 560 1420	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R.	3:35-3:50 3:40-3:55	WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS	1310 1500 1420 1210 1350 1430 1310 1370	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC	1500 1200 1210 1310 1370 1210 560 1420 1200	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05	WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB	1310 1500 1420 1210 1350 1430 1310 1370 1500	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ	1500 1200 1210 1310 1370 1210 560 1420 1200 1240	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R.	3:35-3:50 3:40-3:55 3:45-4:00	WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ	1310 1500 1420 1210 1350 1430 1310 1370 1500 1290	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10	WGH WCNW WMBS WFAS WOKO WRAW WDAS WSYB WNBZ WSYR	1310 1500 1420 1210 1350 1430 1310 1370 1500 1290 570	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y.
3:05-5:20 3:10-3:25 3:15-3:35 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05 3:55-4:10	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15	WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBRE	1310 1500 1420 1210 1350 1430 1310 1370 1500 1290 570 1310	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05 4:00-4:15	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10	WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBTM	1310 1500 1420 1210 1350 1430 1310 1370 1500 1290 570 1310 1370	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va.
3:05-5:20 3:10-3:25 3:15-3:35 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05 3:55-4:10	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1240 1210 1370 1500	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20	WGH WCNW WMBS WFAS WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBRE WBTM WNI.C	1310 1500 1420 1210 1350 1430 1310 1500 1290 570 1310 1370 1500	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05 4:00-4:15 4:05-4:20	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1210 1370 1500 1310	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala Lake Chaltes, La. Flint, Mich.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15	WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBTM WBTM WGBB	1310 1500 1420 1210 1350 1430 1310 1370 1500 1290 570 1310 1370 1500 1210	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05 4:00-4:15	WKAT WJRD WSOC WAML WPRA WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WGRM	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1210 1500 1500 1310 1210	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala Lake Chaltes, La. Flint, Mich.	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25	WGH WCNW WMBS WFAS WMBG WOKO WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC	1310 1500 1420 1210 1350 1430 1310 1370 1290 570 1310 1370 1200 1210 1430	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:20-3:35 3:30-3:45 3:35-3:50 3:40-4:05 3:55-4:10 4:00-4:15 4:05-4:20	WKAT WJRD WSOC WAML WPRA WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WGRM WSPD	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1310 1310 1210 1340	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20	WGH WCNW WMBS WFAS WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WGBB	1310 1500 1420 1210 1350 1430 1310 1370 1500 1290 570 1310 1370 1500 1210 1430 1420	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Hazeiton, Pa.
3:05-5:20 3:10-3:25 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:53 3:45-4:00 3:50-4:05 4:00-4:15 4:05-4:20	WKAT WJRD WSOC WAML WPRAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WGRM WSPD WCOP	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1240 1370 1500 1310 1210 1340 1200	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio	3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30	WGH WCNW WMBS WFAS WOKO WRAW WDAS WSYR WNBZ WSYR WBTM WNLC WGBB WHEC WAZL WTHT	1310 1500 1420 1210 1350 1430 1310 1500 1290 570 1310 1370 1500 1210 1430 1420	Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn.
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	WBEO	1310	Marquette, Mich.
5:05-5:20	KGIW	1420	Marquette, Mich. Alamosa, Colo.
	WKBV	1500	Richmond, Ind.
5:10-5:25	KGDE	1200	Fergus Falls, Minn. Rock Island, Ills. Roswell, N. Mex. Milwaukee, Wis. Price Iltah
	WHBF	1210	Rock Island, Ills.
5:15-5:30	KGFL	1370	Roswell, N. Mex.
· · · ·	WEMP	1310	Milwankee Wis
5:20-5:35	KEUB	1420	Price, Utah
5:25-5:40	WCAT	1200	
	WFRO	1210	Harrisburg, Ills. Sheridan, Wyo.
5:30-5:45	KWYO KIDW	1370	Sheridan Wyo
5:35-5:50	KIDW	1420	Lamar Colo
5:40-5:55	KFXJ	1200	Lamar, Colo. Grand Junction, Colo.
5:45-6:00	KGBX	1230	Springfield, Mo.
5:50-6:05	KROA	1310	Santa Fa N. Mov.
5:35-5:30	KRQA KTSM		Santa Fe, N. Mex. El Paso, Texas
5:55-6:10	KOKO	1310 1370	La Junta, Colo.
J. J.J-0.10	KOKO	13/0	La Junta, Colo.
	The Se	cond	Saturday
2.20.1.40			•
3:30-3:45	WTOL	1200	Toledo, Ohio
3:35-3:50	WKBZ	1500	Muskegon, Mich.
3:40-3:55	WJW WBNS	1210	Akron, Ohio
3:45-4:00	WBNS	1430	Columbus, Ohio
3:50-4:05	WGAR	1450	Cleveland, Ohio
	VX/E 11 C	1200	Columbus, Ohio Cleveland, Ohio Florence, S. C.
3:55-4:10	WCOL WLAK WCAZ	1210	Florence, S. C. Columbus, Ohio Lakeland, Fla.
	WLAK	1310	Lakeland, Fla.
4:00-4:15	WCAZ	1070	Carmage, 1115.
	WQBC	1360	Vicksburg, Miss.
4:05-4:20	WJBO	1120	Baton Rouge, La.
	WSMK	1380	Dayton Ohio
4:10-4:25	WOMT	1210	Manitowoc, Wis.
	WTAL	1310	Tallahassee, Fla. Sun Juan, P. R.
4:15-4:33	WNEL	1290	Sun Juan, P. R.
	WOSU	570	Columbus, Ohio
4:20-4:35	WDZ	1020	Tuscola, Ills.
	WMSD	1420	Muscle Shoals, Ala.
4:25-4:40	WGTM	1310	Wilson, N. C.
	WHBU	1210	Anderson, Ind.
4:30-4:45	KCMO	1370	Kansas City, Mo.
	WJBW	1200	None Otleans In
	WKBN	570	Youngstown, Ohio
5:35-4:50	WGPC	1420	Albany, Ga.
,,.	WNAD WXYZ KOVC WTAX	1010	Albany, Ga. Norman, Okla. Detroit, Mich. Valley City, N. Dak.
	WXYZ.	1240	Detroit Mich
4:40-4:55	KOVC	1500	Detroit, Mich. Valley City, N. Dak.
	WTAX	1210	
	WTIS	1310	Springfield, Ills. Jackson, Tenn.
4:45-5:00	WTJS KLCN	1290	Blytheville, Ark.
1.17 7.00	WMBR	1370	Jacksonville, Fla.
	WMPC	1200	Jacksonville, Fla. Lapeer, Mich.
4:50-5:05	KGCA	1270	Decorah Jours
4:55-5:10	KGCA KOCA	1210	Decorah, Iowa. Kilgore, Tex.
4.77-7.10	KVOL	1310	Lafayette, La.
5:00-5:15	KBIX	1500	Muskopee Okla
J.00 J.17	WBNO	1200	New Orleans Is
5:05-5:20	KPAC	1260	Port Arthur Texas
7.07-7.20	WHBQ	1370	Memphis Tenn
5:10-5:25	KANS	1210	Wichita Kans
J.10-J.2J	WROL	1310	New Orleans, La. Port Arthur, Texas Memphis, Tenn. Wichita, Kans. Knoxville, Tenn.
5:15-5:30	KMIR	1200	Knoxville, Tenn. Montoe, La.
3.13.30	KMLB KTRH	1290	Houston, Texas
5.20 5.25	KIDM	1360	Minot N D
5:20-5:35 5:25-5:40	KTRH KLPM KVSO	1210	Houston, Texas Minot, N. D. Ardmore, Okla.
5.20 5.40	KWLC	1270	Aldmore, Okia.
5:30-5:45	KTSM		Decorah, Iowa
5:35-5:50	KWTN	1310 1210	El Paso, Texas Watertown, S. D.
5:40-5:55	WLB		Watertown, S. D. Minneapolis, Minn.
5:45-6:00		760	
5:50-6:05	KOBH	1370	Rapid City, S. D.
5:55-6:10	KPFA	1210	Helena, Mont.
6:00-6:15	KIT	1250	rakima, Wash.
6:05-6:20	KGBU	900	Ketchikan, Alaska
6:10-6:25	KFJI	1210	Klamath Falls, Ore.
6:15-6:30	KGEZ	1310	Kalispell, Mont.

6:25-6:40	KGY	1210	Olympia, Wash.
6:30-6:45	KXRO	1310	Aberdeen, Wash.
6:35-6:50	KGCX	1450	Wolf Point, Mont.
6:40-6:55	KFIO	1120	Spokane, Wash.
6:45-7:00	KINY	1430	Juneau, Alaska
6:50-7:05	KFQD	780	Anchorage, Alaska
6:55-7:10	KRLC	1390	Lewistown, Idaho

### **SCRAPBOOK**

(Continued from page 8)

cation, although important, are not the only essentials for successful overseas dialing. In the hands of the skilled listener, an ancient t.r.f. or regenerative receiver will show results comparable to those recorded by a modern, multi-tube super-dreadnaught.

And in the last analysis, the listener with the biggest total of foreign veries frequently is the one who has had to work hardest to overcome deficiencies of equipment and location, and so has developed his tuning ability to a high degree.

(To Be Concluded)

# **QUESTIONS**

(Continued from page 35)

amount to 50 percent or more. The total power consumption, then, will be approximately 60 watts or more. Your guess as to the audio output in watts is very close.

### Change To Batteries

Is it practicable to change a Scott 10 receiver over so that it can be used with batteries in a place where lighting electricity is not available? Are there any tubes that can be substituted for the 24s, 45s and 27s in this set?—F. M. L.

Answer. Any set, of course, can be changed over for battery operation. However, the work involved is considerable and the change in character-

(Continued on page 51)

# CLASSIFIED INDEX TO CHAIN PROGRAMS

WC indicates West Coast programs.	11:30, Ray Noble, CBS (WC)
We market with court programm	Sat, 7:00, Saturday Night Swing Club CBS
Comedy	7:30, Harry Sosnik, CCBS 8:00, Russ Morgan, CBS
•	9:00, America Dances, Red
Sun, 5:30 pm, Lew Lehr, CBS	9:30, Gus Haenschen, CBS
6:30 pm, Billy House, CBS 11 pm, Lew Lehr, CB5 (WC)	10:00, Hit Parade, CBS
Mon. 7:30. Eddie Cantor. CBS	11:00, Harry Sosnik, CBS (WC)
8:00, Henry Youngman, CBS	Dialas
8:00, Henry Youngman, CBS 10:30, Eddic Cantor, CBS (WC) Tues, 8:30, Parkyakarus, CBS	Dialog
Tues, 8:30, Parkyakarus, CBS	Sun, 8:00, Edgar Bergen, Charlie McCarthy,
12:00, Parkyakarkus, CBS (WC) Thur, 7:30, Joe Penner, CBS	Red
9:00, Forank Morggn, Fannie Brice, Red	8:00, Stroud Twins, Red
10:00, Bob Burns, Red	Mon, 7:00, Amos 'n' Andy, Red 7:15, Lum and Abner, CBS
Fri, 7:30, Jack Haley, CBS Sat, 7:30, Joe E. Brown, CBS	8:30, Pick and Pat, CBS 11:00, Amos 'n' Andy, Red (WC) 11:15, Lum and Abner, CBS (WC)
Sat, 7:30, Joe E. Brown, CBS 11:00, Joe E. Brown, CBS (WC)	11:00, Amos 'n' Andy, Red (WC)
11.00, Joe E. Blown, CD3 (WC)	11:15, Lum and Abner, CBS (WC)
Concerts	11:30, Pick and Pat, CBS (WC)
	Tues, 7:00, Easy Aces, Blue
Sun, 12:30, Radio City Music Hall, Red	7:00, Amos 'n Andy, Red 9:30, Fibber McGee and Molly, Red
3:00, N. Y. Philharmonic, CBS 9:00, Ford Sunday Evening Hour, CBS	11:00, Amos n Andy, Red (WC)
Mon, 8:30, Alfred Wallenstein, Red	Wed, 7:00, Amos 'n' Andy, Red
Fri, 8:00, Frank Black, Red	7:00, Easy Aces, Blue
	7:15, Lum and Abner, CBS
Dance Bands	11:00, Amos 'n' Andy, Red (WC) 11:15, Lum and Abner, CBS (WC)
Sun, 5:30, Ben Bernie, CBS	Thur, 7:00, Amos 'n' Andy, Red
6:30. Carl Hohengarten, CBS	7:00 Easy Aces Blue
6:30, Carl Hohengarten, CBS 7:00, Harry Salter, Red	11:00, Amos 'n' Andy, Red (WC)
7:30, Oscar Bradley, CBS	Fri, 7:00, Amos 'n' Andy, Red
8:00, Robert Armbruster, Red	8:30 Burns and Allen CBS
9:00, Don Donie, Red 9:30, Gus Haenschen, Red	11:00, Amos 'n' Andy, Red (WC)
10:00 Horace Heidt, Red	11:15, Lum and Abner, CBS (WC)
11:00, Ben Bernie, CBS (WC)	11:30, Burns and Allen, CBS (WC)
11:00, Ben Bernie, CBS (WC) 11:30, Harry Salter, Red (WC) Mon, 8:00, Richard Himber, CBS	Drama
8:00, B. A. Rolfe, Red	Drama
8:30, Benny Kreuger, CBS	Sun, 6:00, Siler Theater, CBS
9:30, Eddie Duchin, Red	6:30, Tale of Today, Red 8:00, Orson_Welles, CBS
10:00, Guy Lombardo, CBS	8:00, Orson Welles, CBS
10:30, B. A. Rolfe, Red (WC) 11:30, Benny Kreuger, CBS (WC)	9:45, Irene Rich, Blue 10:30, "Win Your Lady" (Jim Ameche)
Tues 8:00 Russ Morgan, Red	Blue
8:30, Lud Gluskin, CBS 9:30, Benny Goodman, CBS 12:00, Lud Gluskin, CBS (WC)	11:15, Irene Rich, Blue (WC)
9:30, Benny Goodman, CBS	Mon, 7:00, Alias Jimmy Valentine, Blue
12:00, Lud Gluskin, CBS (WC)	8:30, Those We Loe, Blue
Wed, 8:30, Paul Whiteman, CBS 8:30, Tommy Dorsey, Red	9:00, Lux Radio Theater, CBS Tues, Tracer of Lost Persons, Blue
9:30, Peter Van Steeden, Red	7:30, Helen Menken, Red
10:00, Kay Kyser, Red	8:00, Edward Robinson, Claire Treor,
10:30, Frankie Masters, CBS	CBS 10:00, Jean Hersholt, CBS
11:30 Paul Whiteman CBS (WC	11:30, Edward Robinson, Claire Trevor,
10:30, Harry Kogen, Blue 11:30, Paul Whiteman, CBS (WC Thur, 7:30, Ben Pollack, CBS	CBS (WC)
8:00, Jack Miller, CBS 8:00, Rudy Vallee, Red	Wed, 7:15, Tracer of Lost Persons, Blue
8:00, Rudy Vallee, Red	8:00, Gang Buster (Phil Lord), CDS
9:00, Meredith Willson, Red 10:00, Johnny Trotter, Red	8:00, Gang Buster (Phil Lord), CBS 8:00, One Man's Family, Red Thur, 7:15, Tracer of Lost Persons, Blue 10:00, Columbia Workshop, CBS
11:30, Jack Miller, CBS (WC)	10:00, Columbia Workshop, CBS
Fri, 7:30, Ted Fio Rito, CBS	rri. 8.00, rrist regitter, CDS
8:30. Ray Noble, CBS	9:00, Hollywood Hotel, CBS 9:30, Death Valley Days, Red
9:00, Victor Young, CBS 9:00, Abe Lyman, Red	10:00, Grand Central Station, CBS
10:00, Wayne King, Red	12:00, First Nighter, CBS (WC)

### News

11:00, Press Radio, Red and Blue Fri, 9:30, March of Time, Blue Daily except Sunday, 6:00, Press Radio, CBS 6:25, Press Radio, Red
Daily except Saturday and Sunday, 6:45, Lowell Thomas, Blue

### Popular Programs

11:30 am, Major Bowes Family, CBS 12:30 pm, Salt Lake Tabernacle, CBS 1:00, Church of the Air, CBS 2:00, RCA Magic Key, Blue 6:30, The Laugh Liner, CBS 7:00, Hobby Lobby, Red 7:30, Passing Parade, CBS 7:30, Fitch Bandwagon, Red 8:00, Chase and Sanborn Program, Red 9:00, Manhattan Merry-Go-Round, Red 9:30, Album of Familiar Music, Red 10:00, Horace Heidt's Brigadiers, Red 11:30, Hobby Lobby, Red (WC) Mon, 8:00, Monday Night Show, CBS 8:00, Beliee It or Not, Red 8:30, Voice of Firestone, Red 8:30, Voice of Firestone, Red
10:00, Contented Program, Red
10:00, True or False, Blue
10:30, Belce It or Not, Red (WC)
11:30, Voice of Firestone, Red (WC)
12:30, Vox Pop, Red (WC)
Tues, 7:15, Hollywood Screenscoops, CBS
8:00, Johnny Presents, Red
9:00, We, The People, CBS
9:00, Vox Pop, Red (WC)
Wed, 7:30, Ask-It Basket, CBS
9:30. For Men Only, Red 9:30, For Men Only, Red 10:30, It Can Be Done, CBS 10:30, NBC Minstrel Show, Blue 7:15, Hollywood Screenscoope, CBS
9:00, Major Bowes' Amateurs, CBS
9:00, Good New of 1939, Red
10:00, Kraft Music Hall, Red
8:00, Cities Serice Concert, Red Fri. 9:00, Waltz Time, Red 9:30, Death Valley Days, Red 9:30, March of Time, Blue 7:30, Uncle Jim's Question Bee, Blue Sat. 8:00, Johnny Presents, CBS 8:30, Professor Quiz, CBS 9:00, National Barn Dance, Blue 9:30, Saturday Night Serenade 11:00, National Barn Dance, Blue (WC)

### Singers

5:00, Marion Talley, Red 6:30, Jack Fulton, CBS 8:00, Nelson Eddy, Red 8:00, Dorothy Lamour, Red 9:00, Rachel Carlay, Red 9:00, Pierre Le Kreeun, Red 9:30, Frank Munn, Red 9:30, Jean Dickenson, Red 9:30, Elizabeth Lennox, Red 8:00, Linda Lee, Red Mon, 8:30, Edward Roecker, CBS 8:30, Margaret Speaks, Red 10:00, The Luliaby Lady, Red 10:30, Linda Lee, Red (WC)

Sun,

Tues, 8:30, Al Jolson, CBS 8:30, Martha Raye, CBS 9:30, Donald Nois, Red 12:00, Al Jolson, CBS (WC) 12:00, Martha Raye, CBS (WC) Wed, 10:00, Virginia Sims, Red 10:30, Marion Francis, CBS Thur, 8:00, Kate Smith, CBS 11:30, Kate Smith, CBS (WC) 7:30, Jack Haley, CBS 7:30, Virginia Verrill, CBS 8:00, Lucille Manners, Red 8:30, Tony Martin, CBS 9:00, Frances Langford, CBS 9:00, Jean Sablon, CBS 9:00, Frank Munn, Red 11:30, Tony Martin, CBS (WC) Sat. 9:00, Henry Burr, Blue 9:30, Mary Eastman, CBS 9:30, Bill Perry, CBS 10:00, Fredda Gibson, Buddy Clark, CBS 11:00, Henry Burr, Blue (WC)

### Talks

9:30, Walter Winchell, Blue Sun, 11:00, Walter Winchell, Blue (WC) Tues. 9:00, Gabriel Heatter, CBS 10:30, Jimmy Fidler, Red Wed, 10:30, Edgar A. Guest, CBS 7:15, Jimmy Fidler, Red 10:30, Jimmy Fidler, Red (WC)

# West Coast Special

KGY, in Washington's Capitol City, Olympia, will broadcast a special DX program on the morning of November 19, from 3 am until 6 or 6:30 am, EST. This program will be dedicated to the Newark News Radio Club.

Mr. Otto Renninger, Jr., of the Technical Staff, advises us that the program will consist mostly of live talent. KGY transmits on 1210 kcs. with 100 watts power.

Reports of reception of this program will be appreciated by the station.

### WICA HEARD IN NEW ZEALAND

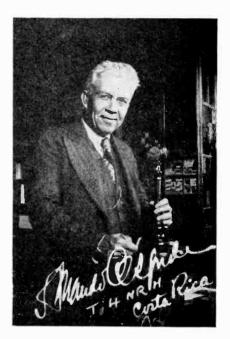
A clipping from the Ashtabula Star-Beacon of September 8, sent to us by Robert Shepard of 1228 W. 48th St., Ashtabula, Ohio, tells of reception of this 250 watt station in New Zealand. The New Zealanders who heard WICA are G. E. Moris and G. F. Dalefield, both of Palmerston North.

"While New Zealand is the farthest flung point to report WICA reception," the newspaper states, "there have been other faraway points to report accurately that they did hear the friendly voice of northeastern Ohio'."

There follows a list of distant reporters which looks almost like The Radex Club membership roster. Most of the reporters mentioned in the Star-Beacon article are known to all our readers—Ed. M. Vickers of Coral Gables, Fla. is there, and Raymond Sahlach of St. Louis, Mo. Harry F. Hawkins of Manchester, N. H., Carroll Weyrich of Parkville, Md., Floyd Biss of Brittmount, Minn., and Donald F. Hill of Broken Bow, Nebr. are all mentioned, along with James A. Dunigan of New Britain, Conn., Carl Sylvester of Yale, Mich., Martin J. Olthoff of Independence, Kans., Carl Horton of Athol, Mass., O. R. Spitler of Chicago, J. W. DeRosa of E. St. Louis, Ill. and Carl Forestieri of the Bronx, N. Y., all of them loyal Radexers.

The December issue of RADEX will be an Asiatic Number, with pictures of stations and verification cards from Asia. Look for it on your news stand.

Sr. Amando Cespedes Marin, of Heredia. Costa Rica, owner and op-



erator of T14NRH in that city, is now enjoying a vacation in the United States. Arriving in New York City on the S. S. Quirígua, on September 11, he plans to remain here for about six weeks, during which time he will be the guest of his radio fans in several cities.

Sr. Cespedes travelled first to Bristol, Connecticut, where he spent a week at the home of Mr. and Mrs. J. B. Sessions. Mr. Sessions is the only listener who has reported continuously on reception of T14NRH during its ten years of broadcasting. From Bristol, Sr. Cespedes plans to journey to Hartford, Boston, Buffalo, and Chicago, and on returning to New York to meet the ship which will return him to his homeland, he will be the guest of the Editor of Radex.

### The Radio Networks

On behalf of a Committee appointed by the Federal Communications Commission to supervise the Commission's investigation of chain and network broadcasting, monopoly in the broadcasting industry and related matters, Chairman McNinch announced that a public hearing would commence on October 24.

The three national networks, as well as some fifteen regional networks, were directed to appear and present evidence covering their corporate and financial history, all phases of network operations, including relations with affiliates and with each other, as well as facts as to their ownership and con-The makers of electrical transcriptions and recordings were also requested to appear and present evidence in respect to their relations with broadcast stations and networks. The quality of such transcriptions, from both the technical and program standpoint will also be investigated.

The Commission's Engineering Department has made a survey of the problem of duplication of programs involved in network operation. At a given location, the same program may be received from several other stations. The extent of instances of such duplication, and the necessity of it, will be fully investigated.

The list of network groups which have been requested to appear may be of interest to DXers. The twenty-one networks, with their addresses, are:

Columbia Broadcasting System, Inc. 485 Madison Ave. New York, N. Y.



A picture of the Main Terrace and Front of the League of Nations Building at Geneva, Switzerland, sent as a verification of reception of one of the League stations.

National Broadcasting Company, Inc. RCA Building 30 Rockefeller Plaza New York, N. Y.

Mutual Broadcasting System, Inc. 1440 Broadway New York, N. Y.

Arrowhead Network c7o Station WEBC Duluth, Minn.

California Radio System
c/o McClatchey Broadcasting Co.
Radio Station KFBK
Sacramento, Calif.

Colonial Network 21 Brookline Ave. Boston, Mass.

Don Lee Broadcasting System 7th and Bixel St. Los Angeles, Calif.

Hearst Radio, Inc. 20 E. 57th St. New York, N. Y.

Inter-City Broadcasting System Station WMCA 1657 Broadway New York, N. Y. King-Trendle Broadcasting Corp. Michigan Radio Network 17th Floor Stroh Bldg. Detroit, Mich.

North Central Broadcasting System Empire Bank Bldg. St. Paul, Minn.

New York Broadcasting System, Inc. 110 E. 58th St. New York, N. Y.

Oklahoma Network c/o Station KTOK Oklahoma City, Okla.

Pennsylvania Broadcasters c/o Station WKBO Penn Harris Hotel Harrisburg, Pa.

Pennsylvania Network c/o WCAU Broadcasting Co. 1622 Chestnut St. Philadelphia, Pa. Quaker Network Mr. Roger W. Clipp Widener Bldg. Philadelphia, Pa.

Texas State Network
Trinity Life Bldg.
Fort Worth, Texas

Virginia Broadcasting System c/o Radio Station WRNL 323 E. Grace St. Richmond, Va.

WLW Line Group c/o Crosley Radio Corp. 1329 Arlington St. Cincinnati, Ohio

Wisconsin Radio Network c/o Radio Station KFIZ Fond-du-Lac, Wis.

Yankee Network 21 Brookline Ave. Boston, Mass.

# The DX Calendar

EST Nov. 6 to 12, 3-4 am

Nov. 11, 1:30 to 2 am

Nov. 22, 9-11 pm

Nov. 24, 9-10 pm

Dec. 4, ?

Dec. 9, 1:30-2 am

Dec. 18, 1-2 am

Jan. 8, 1-2 am

Jan. 8, ?

Jan. 13, 1:30-2 am

Jan. 22, 3-4 am.

Mar. 20, 1-2 am

STATIONS

PRG2, 1040 kcs. Sao Paulo, Brazil (IDA)

WJAG, 1060 kcs., Norfolk, Nebr.

HC2RL, 6635 kcs., Guayaquil, Ecuador (IDA)

TI4NRH, 9670 kcs., Heredia, Costa Rica (NRC)

HJ7ABD, 9630 kcs., Bucaramanga, Colombia (IDA)

WJAG, 1060 kcs., Norfolk, Nebr.

EAJ7, 1095 kcs.,

Madrid, Spain. (IDA)
"Radio Strasbourg," 859 kcs.,
Strasbourg, France (IDA)

DJC, 6020 kcs., Berlin, Germany (IDA)

WJAG, 1060 kcs., Norfolk, Nebr.

TG1, 1310 kcs., Guatamala City, Guat. (IDA)

YSD, 7894 kcs., San Salvador, E. S. (IDA) PST

Nov. 6-12, 12:01 am

Nov. 10, 10:30-11 pm

Nov. 22, 6-8 pm

Nov. 24, 6-7 pm

Dec. 4, ?

Dec. 8, 10:30-11 pm

Dec. 17, 10-11 pm

Jan. 7, 10-11 pm

Jan. 8, ?

Jan. 12, 10:30-11 pm

Jan. 22, 12:01-1 am

Mar. 19, 10-11 pm.

# **Twenty Stentors**

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

By All Readers	Best in EST	Best in CST	Best in MST	Best in PST
Tokyo London Rome Paris Berlin VUD3 RKI HP5G Huizen TGWA SPW LRX VK3ME Praha HJ7ABD HJ1ABP XLRX VLR SPD ZRK	London Berlin Rome Praha SPW RKI VUD3 Tokyo SPD Huizen HP5G Paris COCX XETA HP5A RAN EAR HBH XEWI VLR	Tokyo VK3ME HJ1ABP VUD3 HJ7ABD TGWA XVJ VK6ME VK2ME T14NRH TILS PLP Rome London HP5J COGF COCO COCM VLR Paris	VK3ME Tokyo HJ7ABD SPW VK2ME HP5G VUD3 COCX XETA HP5A RAN EAR XEWI TGWB ZIK2 XEWW VUD3 *	Tokyo Rome Paris TGWA LRX ZRK London XVJ XEWW ZBW3 TGWB Martinique CB1180 HP5G Huizen ZIK2 VK3ME VLR VUD3 ZGE
*No others re	eported			

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

**DJA**, 9560, 12:05-11 am (A); 6-10:50 pm (CA).

**DJB**, 15200 kcs, 12:05-11 am (A); 4:50-10:50 pm (NA); Sunday only 11:10 am-12:25 pm (NA).

**DJC**, 6020, 11:30 am-4:25 pm (Af). **DJD**, 11770, 10:30 am-4:25 pm (Af); 4:50-10:50 pm (NA).

DJE, 17760, 12:05-5:50 am (A);

6-7:50 am (SA); 8-10 am (A); 4:50-10:50 pm (SA); Sunday only, 11:10 am-12-25 pm (SA).

**DJL**, 15110, 12:05-2 am (Af); 8-9 **DJN**, 9540, 4:50-10:50 pm (SA).

DJP, 11855, 7:15-10:50 pm (NA).

**DJQ**, 15280, 12:05-11 am (A); 4:50 -10:50 pm (SA).

**DJR**, 15340, 8-9 am (CA); 4:50-10:50 pm (CA).

**DJS**, 21450, 12:05-11 am (A).

The directions in which the programs are radiated are shown in parentheses: A, Asia; Af, Africa; CA, Central America: NA, North America; SA, South America.

**Eindhoven:** N. V. Philips' Radio, Eindhoven, Netherlands. Philips' Holland-India Broadcasting Station (PHOHI).

**PCJ**, 9590, Sun 3:20-4:20 pm; 7:15-8:15 pm; 8:25-9:25 pm; Tues, 1:45-2 pm; 2:10-3:40 pm; 7:15-8:45 pm; 9-10:30 pm; Wed, 7:15-8:30 pm; Fri, 8-9 pm.

**PCJ2**, 15220, daiy exc. Sat, 6:15-6:45 pm; Sat, 7:15-7:45 pm; Tues, 2-3:30 am; Wed, 9:30-11:30 am.

**PHI2**, 17770, daily exc. Sun, 7:25-8:25 am; Sun, 6:25-9:40 am.

**Lahti:** "Radio Lahti," in Lahti and Hensinki, Finland.

**OFD**, 9500, Lahti, noon to 5 pm. **OFE**, 11780, Lahti, 1:05-1:45 am;

5-6:15 am; 10 am to noon. ...., 6120, Helsinki, 1:05-1:45 am;

...., 6120, Helsinki, 1:05-1:45 am: 5-6:15 am; 10 am-5 pm.

**London:** British Broadcasting Corp., London, W1, England. Big Ben strikes the hours. Reports are acknowledged but not positively verified. Transmitters are at Daventry.

**GSB**, 9510, 2-4:15 am; 12:20-4 pm; 4:15-6 pm; 6-8:30 pm; 9:20-11:20 pm.

GSC, 9580, 9:20-11:20 pm.

**GSD**, 11750, 2-4:15 am; 12:20-4 pm; 6-8:30 pm; 9:20-11:20 pm.

GSE, 11860, 2-4:15 am.

**GSF**, 15140, 5:45-8:50 am; 9 am to noon; 4:15-6 pm.

**GSG**, 17790, 5:45-8:50 am; 9 am to noon; 12:20-4 pm; 4:15-6 pm; 6:8:30 pm; Sun, 5-5:55 pm (I); 5:55-8:55 pm (II).

am (NA); 10:35 am-4:25 pm (Af); Sunday only 6-8 am (Af).

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

**GSI**, 15260, 2-4:15 am; 12:20-4 pm; 9:20-11:20 pm.

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

**GSO**, 15180, 2-4:15 am; 4:15-6 pm; 6-8:30 pm.

**GSP**, 15310, 4:15-6 pm; 6-8:30 pm; 12:17-1:15 pm (Arabic Program).

Martinique: "Radio Martinique," Fort de France, Martinique, 9700 kcs. Sign off with Marseillaise. Address, Poste Seri, Boite 136. 6-7:45 pm. Paris: "Paris Mondial," Ministry of Haussmann, Paris VIIIe.

**TPA2**, 15243, 5-10 am.

Posts and Telephones, 98 bis, Blvd. **TPA3**, 11885, 1-4 am; 10:15 am-5

**TPA4**, 11718, 6-8:15 pm; 8:30-11 pm.

**TPB6**, 17810, 8:30-10 am.

**TPB6**, 15130, 6-8:15 pm. **TPB7**, 11885, 8:30-11 pm.

**TPB11**, 9550, 1-4 am; 10:15 am-5 pm.

Praha: The Czechoslovak Shortwave Station, Fochova Tr. 16. There are three transmissions; No. 1 for North America, announced in English and Czech; No. 11 ofr South America, annouced in Spanish and Czech; No. 111 for Europe, in German, French, English and Czech.

**OK1MPT**, 5145, Fri, 4:40-5:10 pm

**OLR2A**, 6010, Wed, Thur, 4:40-5:10 pm (!!!)

**OLR2B**, 6030, Wed, Thur, 4:40-5:10 pm (III):

**OLR3A**, 9550, Mon, Tues, 4:40-5:10 pm (III).

**OLR4A**, 11840, Daily 1:55-4:30 pm (III); Mon through Fri 7:55-10:55 pm (I); Sun, 5:55-8:55 pm (II).

**OLR4B**, 11760, same as OLR4A. **OLR5A**, 15230, daily 1:55-4:30 pm

(III); Mon through Fri 7:55-10:55 pm (I).

OLR5B, 15320, same as OLR4A. Rome: E.I.A.R., 5 Via Montello, Rome, Italy.

ICC, 6355, 5-30 pm (news in Russian).

**IQY**, 11676, 2:15-2:35 pm (French); 3-3:30 pm (Russian).

IRF, 9830, 12:10-1 pm (Arabic); 3-3:30 pm (Russian); 6-9 pm (Latin and North America).

2RO, 11810, 4:40 am to 9 pm.

**Tokyo:** Broadcasting Corp. of Japan, Hibiya Park, Tokyo.

JZJ, 11800, 7-7:30 am; 8-9:30 am; 2:30-4 pm; 4:30-5:30 pm.

JZK, 15160, 12:30-1:30 am; 2:30-4 pm; 4:30-5:30 pm.

JZL, 17785, 6-6:30 pm.

**CB1180**, 11800, Santiago, Chile. 6-8:30 pm.

**COCM**, 9833, Havana, Cuba. Transradio Columbia, 23 No. 1113, Vedado. 8 am to 10:30 pm.

COCO, 6010, Havana, Cuba. Relays CMCK. Luis Casas R., Aptdo 98. 8 am-10 pm.

COCX, 11650, Havana, Cuba. Casa Lavin, Box 32. Sun, 6-9 pm; Weekdays, 8 am to midnight.

COCF, 11800, Matanzas, Cuba. noon

to midnight.

**EAR**, 9860, The Voice of Republican Spain, Box 951, Madrid, Spain. Daily transmissions at 3:30, 6:30 and 7:40 pm.

HJIABP, 9618, Cartagena, Colombia.

Aptdo. 37. Daily 6-10 pm.

HJ7ABD, 9630, Bucaramanga, Colombia. Aptdo. 47. Weekdays 6-11 pm. HP5A, 11700, Panama City, Panama. Radio-Tatro Estrella de Panama, Aptdo. 054. Weekdays 6-10 pm.

**HP5G**, 11780, Janana City, Panama. "Ron Dalley," Box 1121. Daily 6-10 pm.

**HP51**, 11895, Aguadulce, Panama. "La Voz del Interior," verifies free. Daily 7:30-9:30 pm.

JDY, 9925, Dairen, Kwangtung. Relays

JQAK. Daily 7-8 am.

LRX, 9660, Buenos Aires, Argentina. "Radio El Mundo" Calls Maipu 555. Daily 10:30 am-12:30 am.

PLP, 11000, Bandoeng, Java, N.E.I.

Weekdays, 4:30-10 am.

RAN, 9595, Moscow, U.S.S.R. Radio Centre, Soliakka 12. Daily 7-9:15 pm. RKI, 7520, Moscow, U.S.R. Radio Centre, Soliaka 12. Daily 7-9:15 pm.

**SPD**, 11535, Warsaw, Poland, 6-9 pm. **SPW**, 13635, Warsaw, Poland, 6-9

pm.

**TGWA**, 9685, Guatemala City, Guat. Radiodifusora Nacional. Verifies free Sun, 7-10:45 pm. Weekdays, 10-11:30 pm.

**TGWA**, 15170, Guatemala City, Guat. Same as above.

TGWB, 6500, Guatemala City, Guat. 10-11:30 pm.

TILS, 5905, San Jose, Costa Rica.

Aptdo. 3. 6-11 pm.

TI4NRH, 9670, Heredia, Costa Rica. Aptdo. 40. Tues, Thur, Sat, 9-10 pm. VK2ME, 9690, Sydney, Australia. Am? algamated Wireless, 47 York St. Sun, 1-3 am; 5-11 am.

VK3ME, 9510, Melbourne, Australia. Amalgamated Wireless, 167 King St. Weekdays 4-7 am.

VK6ME, 9590, Perth, Australia. Amalgamated Wireless. Weekdays 4-6 am.

VLR, 9580, Melbourne, Australia. 1-9:45 am.

**VUD3**, 9590, Delhi, Inldia. All-India Radio. 1:30-3:30 am; 8:30-10:30 pm.

**W2XE,** New York, N. Y. Columbia Broadcasting Sys., 485 Madison Ave. 6120 kcs: 11:30 pm to 12:30 am.

11830 kcs: Sat and Sun, 6:30-11 pm; Mon through Fri, 6-11 pm.

2120 kcs: Sat and Sun, 8 am to J pm; Mon through Fri 7:30 am.

**W3XAL**, New York, N. Y. (Bound Brook, N. J.). National Broadcasting Co., Rockefeller Plaza.

6100 kcs: 9 pm to 1 am. 17780 kcs: 9 am to 9 pm.

**W3XAU**, Philadelphia, Pa. 1622 Chestnut St.

6060 kcs: Tues, Fri, Sun, 1 pm to midnight; Wed, 1-10 pm.

9590 kcs: Mon, Thur, Sat, 1 pm to 1 am.; Tues, Fri, Sun, midnight to 1 am; Wed, 10 pm to 1 am.

**XETA**, 11760, Monterrey, N. J., Mexico. Aptdo. 203. Daily 1:30-3:30 pm.

**XEWI**, 11900, Mexico City, D. F. 9 pm to midnight.

**XEWW**, 15160, Mexico City, D. F. Aptdo. 2516. 8 pm to 12:30 am.

XVJ, 11690, Hankow China. 7:05-7:35 am.

**YUA**, 6100, Belgrade, Yugoslavia. "Radio Beograd." noon to 5 pm.

YV5RC, 5970, Caracas, Venezuela. Aptdo. 2009. Sun, 8:30 am to 9:30 pm; Weekdays, 7 am to 10 pm.

**ZBW3**, 9525, Hong Kong, Box 200. Sun midnight to 1 am; 3-9:30 am. Weekdays 4-10 am.

**ZIK2**, 10600, Belize, British Honduras. Tues, Thur, Sat, 7:30-8 pm.

**ZGE**, 6200, Kuala Lampur, Fed. Malay States. Sun, Tues, Fri, 6:40-8:40

**ZRK**, 9606, Cape Town, U. of South Africa. P. O. Box 4559, Johnannesburg. Sun, 3:30-4:30 am; 8-11:40 am. Weekdays, 11:45 pm to 12:45 am.

### **QUESTIONS**

(Continued from page 42)

istics may be such that the general efficiency of the set may be impaired. If you have a fairly large supply of storage battery power, the set can be used as it is simply by removing the power transformer, and connecting the tube heaters directly to the proper battery voltages. The amperage draw of the tubes you now have is, however, quite heavy. The proper B battery can be connected across the present high-voltage output of the transformer after the type 80 tube and soon!"

The December RADEX will show the Sunday time on the air of the North American broadcasting stations.

### WPIC on the Air

Program tests of the new WPIC in Sharon, Pa| commenced on October 15. This station is authorized to operate on 780 kcs. with 250 watts, daytime only. The transmitter is a Western Electric, and a 250 foot Blaw-Knox vertical radiator will be empoyed. The transmitter is situated between Sharon and Farrell, Pa. Correct reports will be verified if return postage is sent.

# The BROADCASTING Stations of the WORLD

All the world's broadcasting stations which use at least 1000 watts of power, are shown in this list. Frequencies are given in the first column, the power in kilowatts in the second column, Complete lists, showing all the stations, regardless of power used, are printed by Continents, from month to month. The South Americans were listed in the October issue, and the stations of Oceania in the September issue.

153	5		Ankara, Turkey	375	50		Constitution of the Consti
155	7		Kaunas, Lithuania	392	30		Sverdlovak, U.S.S.R.
160	10		Hilversum, Netherlands	27%	50		Banska Bystrica, Czecho-
160	150	1.55	Brasov, Roumania	401	. 1/		slovakia
166	220		Lahti, Finland		1 1/4		Geneva, Switzerland
172	500			413	10	1111	Voronezh, U.S.S.R.
180	100		Moscow, U.S.S.R.	510	50		Baranowicze, Poland
182	80		Shinkyo, Manchukuo	510	1		Innsbruck, Germany
185			Paris, France	527	6.3		Ljubljana, Jugoslavia
	5		Istanbul, Turkey	527	10	Allen .	Viipuri, Finland
191	60		Berlin, Germany	530	10		Bolzano, Italy
200	20		Irkutsk, C.S.S.R.	536	50		Wilno, Poland
200	150		Droitwich, Gt. Britain	546	120		Budapest, Hungary
208	35		Minsk, U.S.S.R.	550	100		Beromunster, Switzerland
208	16		Reykjavik, Iceland	550	10	2CR	Cumnock, Australia
216	150		Motala, Sweden	560	10	MTCY1	Shinkyo, Manuchkuo
218	100		Novosibirsk, U.S.S.R.	560	10	XGOG	Chengtu, China
224	120	1.1.1.1	Warsaw, Poland	560	10	ZUG	Grahamstown, U. S. Africa
232	150		Luxembourg	560	10	6WA	Minding, Australia
232	100		Moscow, U.S.S.R.	565	100		Athlone, Irish Free State
240	60		Kalundborg, Denmark	565	10		Memel, Lithuania
248	100		Kiev, U.S.S.R.	565	3		Palermo, Italy
256	25		Tashkent, U.S.S.R.	570	5	CB57	Santiago, Chile
260	60		Oslo, Norway	570	60	2YA	Wellington, New Zealand
260	1		Bergen, Norway	570	100		Stuttgart, Germany
260	10		Vigra, Norway	580	1	JFCK	Taichu, Formosa
271	100		Leningrad, U.S.S.R.	580	10	3WV	Horshm, Australia
283	35		Tiflis, U.S.S.R.	583	20	I have	Alpes-Grenobles, France
300	100		Moscow, U.S.S.R.	583	50		Madona, Latvia
340	20	1111	Saratov, U.S.S.R.	590	6	LS10	Buenos Aires, Argentina
347	10		Finnmark, Norway	590	150	JOAK1	Tokyo, Japan
350	10		Archangel, U.S.S.R.	592	100		Vienna, Germany
355	20		Boston-on-Don, U.S.S.R.	600	25	CNR	Rabat, Morocco
360	20	HAL 2	Budapest, Hungary	600	25	PRH2	Porto Alegre, Brazil
200	20	4 44 4 75 2	Dudipest, Italigary	000	4)	11112	rotto ritegie, Diazii

			0 1 11 0 1	760		WOLL	77 11 77
600	10	SBD	Sundsvall, Sweden	750	2.5	KGU	Honolulu, Hawaii
600	10	ZTC	Cape Town, U.S. Africa	750	10	LRA	Buenos Aires, Argentina
600	1	7ZL	Hobart, Australia Athens, Greece	750	1	XGOK	Canton, China Durban, U.S. Africa
601	15		Athens, Greece	750	1.5	ZTD	Durban, U.S. Africa
610	1	CX4	Montevideo, Uruguay	750	12		Katowice, Poland
610	20		Florence, Italy	750	10	222	Maritzburg, U.S. Africa
610	3	JOJK	Kanazawa, Japan	760	10	CB76	Maritzburg, U.S. Africa Valparaaiso, Chile
610	50	KZRM	Manila, Philippines Sydney, Australia	760	1	JQAK1	Diren Manchukuo
610	3.5	2FC	Sydney, Australia	760	10	PRA6	Sao Paulo, Brazil Shanghai, China Burghead, Gt. Britain
620	1	CB62	Santiago, Chile Cordoba, Argentina	760	1	XMHD	Shanghai, China
620	2	LV3	Cordoba, Argentina	767	60		Burghead, Gt. Britain
620	4.5	3AR	Melbourne, Australia	767	70		Falkirk, Gt. Britain Montevideo, Uruguay
620	15		Brussels, Belgium	770	1	CX12	Montevideo, Uruguay
620	20		Cairo, Égypt Lisbon, Portugal	770	10	JOHK	Sendai, Japan
629	20	CT1AA	Lisbon, Portugal	770	3.5	3LO	Melbourne, Australia Stalino, U.S.S.R.
629	20		Khristiansand, Norway	770	10		Stalino, U.S.S.R.
630	5	LS3	Buenos Aires, Argentina	776	120		LOULOUSE Erance
630	7	4QN	Clevedon, Australia	780	1		Santiago, Chile
638	120		Praha. Czechoslovakia	780	1	KZEG	Santiago, Chile Manila, Philippines Rosaria, Argentina
640	10	ZTJ	Johannesburg, U.S. Africa	780	5	LT1	Rosaria, Argentina
640	7.5	5CK		780	120		Leipzig, Germany
640	1	CB64	Vina del Mar, Chile Lyons-la-Doua, France Petrozavodsk, U.S.S.R.	790	7.5	EAII	
648	100		Lyons-la-Doua, France	790	10	JOGK	Barcelona, Spain
	10		Petrozavodsk, U.S.S.R.	790			Kumamoto, Japan
648			M tariles Henovey		11	LR10	Buenos Aires, Argentina
650	2	CX6	Montevideo, Uruguay	790	10	XGOV	Changsha, China Dunedin, New Zealand
650	10	1YA	Auckland, New Zealand	790	10	4YA	Dunedin, New Zealand
658	100	1211	Cologne, Germany	795	50	DDA	Lwow, Poland
660	10	XGZ	Nanking, China	800	1.5	PRA3	Rio de Janeiro, Brazil
668	20	X	Jerusalem, Palestine	800	2.5	4Q <b>G</b>	Brisbane, Australia
668	70	NR	Manchester, Gt. Britain	804	70		Cardiff, Gt. Britain
670	7	LS4	Buenos Aires, Argentina	804	5		Penmon, Gt. Britain
670	2	PRC5	Belem, Brazil	810	10	JOIK	Sapporo, Japan
670	7.5	2CO	Corowa, Australia	810	3	VUC	Calcutta, India
674	3	MTFY	Harbin, Manchukuo	810	1	CX14	Montevideo, Uruguay
677	100		Sottens, Switzerland	814	50		Milan, Italy
680	1	CB68	Valparaiso, Chile	820	1	CB82	Santiago, Chile
<b>6</b> 80	5	PRC2	Porto Alegre, Brazil	820	1	LV7	Tucuman, Argentina
680	ś	4YZ	Invercargill, New Zealand	820	12	5 - 5 - 6	Bucharest, Roumania
686	20	7.2	Belgrade, Jugoslavia	823	10		Bodo, Norway
690	10	JOBK1	Osaka, Japan	830	10	IOFK	Hiroshima, Japan
690	3.5	6WF	Perth, Australia	830	20	LR5	Buenos Aires, Argentina
695	120	0 11 2	Paris, France	830	7	3GÍ	Longford, Australia
700	5	VPB	Colombo, Ceylon	832	1.5		Agen, France
700	7	2NR	Grafton, Australia	832	35	1111	Kiev, U.S.S.R.
700	55	21111	Stockholm, Sweden	832	10		Stavanger, Norway
710	10	JODK2	Keijo, Korea	840	1		Valparaiso Chile
710	5	LS1	Buenos Aires, Argentina	840	5	PRH9	Valparaiso, Chile Sao Paulo, Brazil
710	7	7NT	Kelso, Australia	840	5	2YC	Wellington, New Zealand
710	í	XGOS	Chunking, China	841	100		
	120	AGOS	Rome, Italy	845	2	ZBW	Berlin, Germany
713 720	120	JFBK	Taiwan, Formosa	850	2		Hong Kong
720	25	PRA8	Pernambuco, Brazil Christchurch, New Zealand	850	3	CX16 EAJ3	Montevideo, Uruguay
	10	3YA	Christchurch, New Zealand	850			Valencia, Spain
720 720	2	6GF	Kalgoorlie, Australia	850	10 10	JBCK	Seishin, Korea
	1		Frederikstad, Norway	850		OAX4A	Lima, Peru
722			T 1 - Land Mathemands		1	5RM	Renmark, Australia
722	17	(3.55.5	Lopikerkapel, Netherlands Kharkov, U.S.S.R. Santiago, Chile Madrid, Spain	850 850	10		Porsgrund, Norway
722	10	CD-0	Kharkov, U.S.S.K.				Simferopol, U.S.S.R.
730	1	CB73	Santiago, Chile	850	100	LICD	Sofia, Bulgaria
730	3	EAJ2	Madrid, Spain	855	2.5	HSP1	Bangkok, Siam
730	5.5	EAJ5	Seville, Spain	855	3	VUB	Bombay, India
730	10	JOCK1	Nagoya, Japan	859	100	DD A a	Strasbourg, France
730	1	LV1	San Juan, Argentina Adelaide, Australia	860	2.5	PRA3	Rio de Janeiro, Brazil
730	4	5CL		868	50	10476	Poznan, Poland
730	20	*OCTT	Tallin, Estonia	870	150	JOAK2	Tokyo, Japan
740	1	JOSK	Kokura, Japan	870	26	LR6	Buenos Aires, Argentina
740	10	PRA4	San Salvador, Brazil	870	1	2GB	Sydney, Australia
740	3	2BL	Sydney, Australia Munich, Germany	87 <b>7</b>	70	DD - 2	London, Gt. Britain
740	100		Munich, Germany	880	22	PR13	Bello Horizonte, Brazil
740	1		Pori, Finland	880	15	177.17	Linz, Germany
749	120	****	Marseille, France Bangkok, Siam Taihoku, Formosa	882	20	VUD	New Delhi, India
750	15	HS7PJ	bangkok, Siam	886	15	CD.	Graz, Germany
750	10	JFAK	laihoku, Formosa	890	1	CB89	Santiago, Chile

890	1.5	CX18	Montevideo, Uruguay		065	1	JQAK2	Dairen, Manchukuo
890	1	MTBY	Hoten, Manchukuo		068	2		Paris, France
890	1.5	ZP9	Asuncion, Paraguay	10	)68	10		Tiraspol, U.S.S.R.
890	10		Helsinki, Finland Limoges, Frances	10	70	50	LR1	Buenos Aires, Argentina
895	1.5		Limoges, Frances	10	070	2	6WB	Katanning, Australia
900	1	CB90	Valparaiso, Chile	10	)77	13		Bordeaux, France
900	1	KZIB	Valparaiso, Chile Manila, P. I.		080	4.5	LT3	Rosaria Arg
900	2	LU2	Bahia Blanca, Arg.		080	2	SCC	Rosaria, Arg. Falun, Sweden
900	5	PRB7	Rio de Ianeiro Brazil		080	10	000	
910	12	LR2	Rio de Janeiro, Brazil Buenos Aires, Arg.		90	1.05	CX28	Poao Pessoa, Brazil
910	2	4RK	Rockhampton, Australia		90	2	3LK	Montevideo, Uruguay
913	60	****	Toulouse Esense		95	10	JLK	Lubeck, Australia
920	1		Toulouse, France				DRCO	Vinnitsa, U.S.S.R.
920	32		hanghai, China		00	50	PRG9	Sao Paulo, Brazil Kuldiga, Latvia Naples, Italy
		CDo1	Brno, Czechoslovakia		.04	25		Kuldiga, Latvia
930	2.5	CB93	Santiago, Chile		04	10		Naples, Italy
930	1	CX20	Montevideo, Uruguay		10	1	CB111	Vina del Mar, Chile
932	15	ronge.	Brussels, Belgium		10		LS5	Buenos Aires, Arg.
940	10	JOBK2	Osaka, Japan Rio de Janeiro, Brazil		13	100	111	Melnik, Czechoslovakia
940	10	PRF4	Rio de Janeiro, Brazil		20	5	LV5	San Juan, Arg.
940	10	SBB	Goteborg, Sweden		20	5	PR H8	Rio de Janeiro, Brazil
940	1	XHHE	Shanghai, China		20	1	YV1RF	Maracaiba, Venezuela
940	12		Shanghai, China Algiers, Algeria Buenos Aires, Argentina		20	1	4BC	Brisbane, Australia
950	31	LR3	Buenos Aires, Argentina	11	22	6		Nyreghyhaza, Hungary
950	1	2UE	Sydney, Australia	11	22	60		Stagshaw, Gt. Britain
950	100		Sydney, Australia Breslau, Germany	11	30	1	CX30	Montevideo, Uruguay
959	60		Paris, France	11	30	1	ZP1	Asuncion, Paraguay
960	2	LV2	Cordoba, Arg.		30	1	2ZB	Wellington, New Zealand
960	5	PRF3	Sao Paulo, Brazil		31	100	SBH	Horby, Sweden
960	10	RW13	Odessa, U.S.S.R.		40	5	CB114	
960		1 XHHF	Shanghai, China					Santiago, Chile
960	5	YV5RA	Caracas Venezuela		40	10		Genoa, Italy
968	30		Caracas, Venezuela Bordeaux, France Santiago, Chile		40	10	2	Trieste, Italy
970	1	CB97	Santiago Chile		40			Turin, Italy
970	50	JODK1	Keijo Korea	11		50		Cardiff, Gr. Britain London, Gt. Britain
974	1	HCJB	Quito Ecuador		49	20		London, Gt. Britain
977	100	HCJD	Keijo, Korea Quito, Ecuador Belfast, Gt. Britain		49	20	12.17	Manchester, Gt. Britain
980	20	PRE8	Rio de Janeiro, Brazil		50	7	LR8	Buenos Aires, Arg.
			-	11	50	1	XGOZ	Chinkiang, China
980	1	YV1RB	San Cristobal, Venez.	11	50	2	2WG	Wagga, Australia Kosice, Poland
980	2	6AM	Northam, Australia	11	58	10		Kosice, Poland
980	24		Torun, Poland	11	60	1	CB116	Valparaiso, Chile Sao Paulo, Brazil
986	50		Bologna, Italy	11	60	5	PRH3	Sao Paulo, Brazil
990	10	JOCK2	Nagoya, Japan	11	67	15		Monte Ceneri, Switzerland
990	16	LR4	Bologna, Italy Nagoya, Japan Buenos Aires, Arg. Hangchow, China	11	70	2	2NZ	Inverell, Australia
990	2	XGOD	Hangchow, China	11	76	10		Copenhagen, Denmark
990	2	2GZ	Orange, Australia	11	80	5	CB118	Santiago, Chile
995	60		Hilversum, Netherlands	11	85	60		Nice-Corse, France
1000	2	HJ3ABH	Bogota, Colombia	1 1	90	30	LS <sub>2</sub>	
1000	10	PŘB9	Sao Paulo, Brazil	111			2CH	Buenos Aires, Arg. Sydney, Australia
1000	14		Bratislava, Czechoslovakia			1 2		Sydney, Australia
1010	1	CB101	Bratislava, Czechoslovakia Santiago, Chile		90	2		Coblenz, Germany
1010	ī	CX24	Montevideo, Uruguay		90			Trier, Germany
1010	5	XGOW	Hangkow, China Chernigov, U.S.S.R. Daventry, Gt. Britain Barcelona, Spain	11	95	25		Frankfurt-am-Main,
1013	4		Chernigov U.S.S.R.			_		Germany
1913	70	11111	Daventry Gt Britain	11	95	5		Freiburg-im-Breisgau,
1020	3	EAJ15	Barcelona, Spain			_	CD	Germany
1020	1	2KY	Sudney Australia		00	1	CB120	Valparaiso, Chile
1020	2	2111	Sydney, Australia Cracow, Poland Parede, Portugal		00	1	HJ3ABE	Bogota, Colombia
	5	CTiGL	Darede Portugal		00	1	PRB6	Sao Paulo, Brazil
1030	5	LR9	Buenos Aires, Arg.		04	5		Moravska Ostrava, Czecho
1030					13	60		Lille, France
1030	1	XGOL	Foochow, China	12	20	25	PRA9	Rio de Janeiro, Brazil
1031	100	4.1.	Konigsberg, Germany	12	20	2	4AK	Oakey, Australia
1040	10	CP4	La Paz, Bolivia		20	1	4ZB	Dunedin, New Zealand
1040	10	PRG2	Sao Paulo, Brazil	12	22	60	×	Rome, Italy
1040	2	5PI	Crystal Broo, Australia	12	30	15	LS8	Buenos Aires, Arg.
1040	10	177	Leningrad, U.S.S.R.		30	2	2NC	Newcastle, Australia
1040	120		Rennes-Bretagne, France		30	5		Gleiwitz, Germany Gorlitz, Germany
1050	1.5	CX26	Montevideo, Uruguay		31	5		Gorlitz, Germany
1050	2	2CA	Canberra, Australia	12		í	6CK	Cork, I.F.S.
1050	50		Canberra, Australia Kalkirk, Gt. Britain		40	2	LU7	Bahia Blanca, Arg.
1059	20		Bari, Italy		40	1	3TR	Sale, Australia
1060	5	CB106	Santiago, Chile		40	17		Saarbrucken, Germany
1060	5	PRD2	Rio de Janeiro, Brazil		50	1	CB125	Santiago, Chile

1250	1	CX36	Montevideo, Uruguay	1348	2		Konigsberg, Germany
1258	i	CADO	Bilbao, Spain	1348	2		Salzburg, Germany
1258	15		Riga, Latvia	1350	6	LS6	Buenos Aires, Argentina
1258	í		Rome, Italy	1350	1	XGOE	Nanning, China
1258	î		Salamanca, Spain	1357	2	MOOL	Bari, Italy
1260	5	PRA5	Sao Paulo, Brazil	1357	5		Genoa, Italy
1260	2	3SR	Shepparton, Australia	1357	4		Milan, Italy
1260	2		Numberg, Germany	1357	1		Rome, Italy
1270	6	LS9	Buenos Aires, Arg.	1360	5	PRC8	Rio de Janeiro, Brazil
1270	i	2SM	Sydney, Australia	1360	ś		Warsaw, Poland
1276	27		Juan-les-Pins, France	1380	Ś	CB138	Santiago, Chile
1276	2		Varna, Bulgaria	1380	í	4BH	Brisbane, Australia
1280	25	PRG3	Rio de Janeiro, Brazil	1384	7	1011	Warsaw, Poland
1280	1	i koj	Aberdeen, Gt. Britain	1390	í	CB139	Valparaiso, Chile
1294	5		Klagenfurt, Germany	1393	25		Lyons, France
1294	5		Vorarlberg, Germany	1400	5	PRD5	Rio de Janeiro, Brazil
	1	CB130	Santiago, Chile	1402	2		Stara-Zagora, Bulgaria
1300		CPX	La Paz, Bolivia	1402	1	CW37	Colonia, Uruguay
1300	5	PRH6	Bello Horizonte, Brazil	1410	5	PRE7	Sao Paulo, Brazil
1300	3		Shanghai, China	1410	15		Fecamp, France
1300	2	XQHC 2TM	Tamworth, Australia	1411	2	PRB2	Curityba, Brazil
1300		LS11	La Plata, Arg.		_		Kaiserlautern, Germany
1310	10		Malmo, Sweden	1420	2	11.5	
1312	2.5	CD:22	Valparaiso, Chile	1430	5	PRE2	Rio de Janeiro, Brazil
1320	1	CB132	Magyarovar, Hungary	1430	1	3ZB	Christchurch, New Zealand
1320	1	HAE2		1438	1.2		Miskolo, Hungary
1320	1	KGMB	Honolulu, Hawaii	1440	10	LS7	Buenos Aires, Arg.
1320	1	PRD8	Nichtheroy, Brazil	1440	3	PRF9	Porto Alegre, Brazil
1320	2	PRE9	Fortaleza, Brazil	1450	1	PRB4	Santos, Brazil
1320	2	PRH4	Sao Paulo, Brazil	1456	5		Paris, France
1330	2		Bremen, Germany	1460	5		Dresden, Germany
1330	2		Hanover, Germany	1465	1.2		Pecs, Hungary
1330	2		Kiel, Germany	1470	1	PRE6	Nictheroy, Brazil
1330	2		Stettin, Germany	1474	î		Bournemouth, Gt. Britain
1339	2		Lodz, Poland	1480	i	PRD3	Petropolis, Brazil
1339	5	CD. 1	Montpellier, France	1500	10	CB150	Santiago, Chile
1340	1	CB134	Santiago, Chile	1500	2	VUP	Peshawar, India
1340	5	PRE4	Sao Paulo, Brazil	1,00	-	_ <del></del>	

# Applications To The FCC

(Only applications which are set for hearing are shown in this list) KEX, Portland, Ore., change freq. to 1160 (E). KFBB, Gt. Falls, Mont., mod. of lic. change freq. to 900, pwr. to 5 kw. unltd. (E). KRKO, Everett, Wash., CP 100 (.25), unltd.

(E). KRSC, Seattle, Wash., CP increase pwr. to 500 (E).

WAZL, Hazelton, Pa., mod. lic. 1420 kcs, 100 w. unltd. (E).
WDEL, Wilmington, Del., mod. of CP to in-

crease day pwr. to 1000. (E). WGRC, New Albany, Ind., CP 880 kcs., 250 w. unltd. (E).

WIP, Philadelphia, Pa., CP new xmitter, in-crease pwr. to 5 kw, move xmitter o Brooklawn,

W. J. (E).
WIRE, Indianapolia, Ind., mod. of CP of increase pwr. to 5 kw. (E).
WIS, Columbia, S. C., applied for special exp.

authority for new satellite station at Sumter, S. S., same freq. as WIS, 560 kcs, 10 to 100 w. from LS to sunrise (E).

WJRD, Tuscaloose, Ala., mod. of lic. for 100

(.25) unltd. (E). WMBC, Detroit, Mich., CP change freq. to

600, pwr. to 250 unltd. (E). WMBR, Jacksonville, Fla., CP 1120 kcs, 1 kw unltd. (E).

WPAW Pauling D. CP increase pure to

WRAW, Reading, Pa., CP increase pwr. to

250. (E).
WSJS, Winston Salem, N. C., CP increase
pwr to 100 (.25) (E).

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

WTMV, E. St. Louis, Ill., mod. of lic. to increase pwr. to 250. (E).

New, Cleveland, Ohio, Cuyahoga Valley

Brdcstg. Co., CP 1500 kcs, 100 w. days (E).

New, Ely, Wyo., Eastern Nevada Brdcstg. Co.,
CP 1500 kcs., 100 w. days (E).

New, Everett, Wash., Cascade Brdcstg. Co., Inc., 1420 kcs., 100 (.25) unltd. (E).
New, Hastings, Nebr., South Nebr. Brdcstg.

Co., CP 920 kcs., 1000 (5) unltd. (E).

(E) indicates the application is set for hearing before an Examiner. (C) indicates it is set for hearing before the Commission, freq. (Frequency); mod. (modification); lic. (license); pwr. (power); unltd. (unlimited time); Itd. (limited time); CP (construction permit); hrs. (hours); xmitter (transmitter); exp. (experimental); LS (local sunset).

New, Metuchen, N. J., Bernard Goldsmith,	1420	WGNC	Gastonia, N. C.
CP 1420 kcs., 100 w. days (E).	1420	WHMA	Anniston, Ala.
CP 1420 kcs., 100 w. days (E). New, Ocala, Fla., John T. Alsop, Jr., CP	1430	CMKZ	Palma Soriano, Cuba
1500 kcs., 100 w. unltd. (E). New, Phoenix, Ariz, M. C. Reese, CP 1200	1490	CMKQ	
New Phoenix Ariz M C Reese CP 1200	1500	KVWČ	Santiago, Cuba Vernon, Texas
kcs., 100 (.25) unltd. (E).	1540		Guines, Cuba
New Rockwille Md Managery Bedesta Co	1)40	CMAN	
New, Rockville, Md., Monocacy Brdcstg. Co., 1140 kcs., 250 w. days (E). New, San Juan, P. R., Enrique Abarca Sanfeliz, CP 580 kcs., I kw. unltd. (E).			Frequency
Niem Com June D. D. Com Al C	1500	CMCG	Havana, Cuba, from 680
ivew, San Juan, P. R., Enrique Abarca San-			Call
feliz, CP 580 kcs., I kw. unltd. (E).	1050	WIBC	Indianapolis, Ind., from WGVA
New, Sedalia, Mo., CP 1500 kcs., 100 (.25)		KOME	
unltd. (E).	1310	KSAN	Tulsa, Okla., from KTFL
New, Springfield, Ohio, Springfield Brdcstg.	1420	KSAIN	San Francisco, Calif., from KGGC
New, Springfield, Ohio, Springfield Brdcstg. Corp., CP 1310 kcs., 100 w. unltd. (E). New, Sumter, S. C., J. Samuel Brody, CP			Location
New, Sumter, S. C., J. Samuel Brody, CP	<b>9</b> 50	KFWB	Los Angeles, Calif., from Holly-
1310 kcs., 100 (.25) Unltd. (E).			wood.
<u> </u>	1420	WMSD	Muscle Shoals City, Ala., from
Recommendations of Fcc			Sheffield.
₽ •			Reinstated
Examiners	1440	CMBC	
	1440	CMBG	Havana, Cuba
KATE, Albert Lea, Minn., rec. grant of mod.			Network
of lic. to increase pwr. to 100 (.25) unltd. (C).	1260	KRGV	Weslaco, Texas, new MBS
KEEN, Seattle, Wash., grant of CP change freg. to 1420, pwr. to 100 (.25) unltd.	1310	KAND	Carrieros Taure New MRS
reg. to 1420, pwr. to 100 (.25) unltd.		KFYO	Corsicana, Texas, New MBS Lubbock, Texas, new MBS Corpus Christi, Texas, new MBS
WDAE, Tampa, Fla., mod. of lic. change freq.	1310		Lubbock, Texas, new MDS
to 780.	1330	KRIS	Corpus Christi, Texas, new MbS
WGNY, Newburgh, N. Y., grant of CP	1370	KFJZ	Fort Worth, Texas, new MBC
change freq. to 1220, pwr. to 250 days.	1370	KFRO	Longview, Texas, new MBS Galveston, Texas, new MBS
WGNY, Newburgh, N. Y., grant of CP change freq. to 1220, pwr. to 250 days. WHP, Harrisburg, Pa., grant CP to increase	1370	KLUF	Galveston, Texas, new MBS
pwr. to 1000 (5).	1370	KTEM	Temple, Texas, new MBS
WPRA, Mayaguez, P. R., grant of CP to	1410	KGNC	Amarillo, Texas, new MBS
change freq. to 780, pwr. to 1000 (2.5). un-	1420	KABC	San Antonio, Texas, new MBS
ltd.	1420	KCMC	Texarkana, Texas, new MBS
WRBL, Columbus, Ga., mod. of CP to change freq. to 1330, pwr. to 1 kw. WTAQ, Green Bay, Wis., grant of CP to in-	1420	KRBC	Abilene, Texas, new MBS
freq. to 1330, pwr. to 1 kw.	1420	KRIC	Beaumont, Texas, new MBS
WTAO, Green Bay, Wis., grant of CP to in-	1420	WACO	Waco, Texas, new MBS
crease bour to 1000 (5)	1440	KXYZ	Houston, Texas, new MBS
New, Atlantic City, N. J., Press Union Puh. Co., CP 1200 kcs., 100 (.25) unltd.	1500	KBST	Big Spring, Texas, new MBS
Co., CP 1200 kcs., 100 (.25) unitd.	1500	KGKB	Tyler, Texas, new MBS
New, Denver, Colo., F. W. Meyer, CP 1310	1500	KNOW	Austin, Texas, new MBS
kcs., 100 (.25).	1500	KPLT	Paris, Texas, new MBS.
New, Emporia, Kans., Emporia Brdcstg. Co.,		Permit	to Change Frequency
CP 1370 kcs., 100 w. days.	770	KFAB	
New, Lihue, Hawaii, Garden Island Pub. Co.,	980	XEFE	Lincoln, Nebr., to 1080 Nuevo Laredo, Tams.
CP 1500 kcs., 100 (.25).	1190	WATR	Waterbury Cons. to 1200
New, Goldsboro, N. C., CP 1370 kcs., 100 w.			Waterbury, Conn., to 1290 Minot, N. Dak., to 160 3
unltd.	1240	KLPM	Turner, Alada to 160
New, New Bern, N. C., Nathan Frank, CP	1310	KINY	Juneau, Alaska, to 1430
1500 kcs., 100 w. unltd.	1310	WOL	Washington, D. C., to 1230
New, Rock Hill, S. C., CP -500 kcs., 100 w.	1370	KAST	Astoria, Ore., to 1200
days.	1370	KSLM	Salem, Ore., to 1360
New, St. Petershurg, Fla. Pinellas Brdcsto			nit to Change Power
Co., CP 1370 kcs. 100 (.25) unltd. New, Vancouver, Wash., Vancouver Brdcstg. Corp., CP 880 kcs., 250 w. days.	650	WFIL	Philadelphia, Pa., to 1000
New Vancouver Wash Vancouver Brdosto	580	WILL	Urbana, III., to 5000
Corn CP 880 kes 250 m days	590	WKZO	Kalamazoo, Mich., to 250 (1)
New, Wallace, Idaho, CP new station 1420	760	KXA	Seattle, Wash., to 1000
kcs., 100 (.25) unltd.	770	KFAB	Lincoln, Nebr., to 50000
New Washington D C Lawrence I Heller	850	WKAR	E. Lansing, Mich., to 5000
New, Washington, D. C., Lawrence J. Heller, CP 1310 kcs., 100 (.25) (Recommended dis-	850	WWL	New Orleans, La., to 50000
missal of application)	880	CMW	Havana, Cuba, to 5000
missal of application).	880	WRNL	Richmond, Va., to 1000
The Month's Changes In	890	KFNF	Shenandoah, Iowa, to 1000 (5)
	900	KGBU	Ketchikan, Alaska, to 1000
Station Data	920	CMX	Havana, Cuba, to 10000
	1000	CMBZ	Hayana, Cuba, to 5000
New	1040	KRLD	Havana, Cuba, to 5000 Dallas, Texas, to 50000
710 XEQ Mexico City, D. F.	1110	CMCJ	Havana, Cuba, to 5000
950 Troy, N. Y.	1110	WRVA	Richmond, Va., to 5000
1210	1170	CMBS	Havana, Cuba, to 5000
1210 Charleston, S. C. 1210 Petersburg, Va.	1190	WATR	Waterbury Conn. to 250
1250 WMRO Aurora, Ill.	1240	KLPM	Waterbury, Conn., to 250 Minot, N. Dak., to 500 (1)
1340 WFNC Fayetteville, N. C.	1250	KIT	Yakima Wash to 500 (1)
			Yakima, Wash., to 500 (1) Havana, Cuba, to 5000
	1260	LMDL	
1420 CKCA Kenora, Ont.	1260	CMBD	Havana, Cuba, to 3000

# KEY TO SYMBOLS

As shown in the Index by Frequencies

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

a Verifi b Verifi	ies fo	or return nly occa verify,	postage.	using another und ial Authorization.  H Assigned another fi	er Spec- R National "Red" Network. S Sundays only.
d Verif	ies —	no po	stage re-	-using this one Special Authorizat	under X Has Permit to change power.
e Verifi		for Int	ernational	J Assigned lower power using this power	wer but tion.
z No ir	nform	ation av lumn Sy		Special Authorizat K Licensed for facsim	ile. quency.
A Status	s in	doubt-	n Court.	L Limited time. M Mutual Network.	a-b-c Small letters show sta- tions using same transmitter.
		''Blue'' Networl	Network.	N National "Red" and Networks.	"Blue" 1-2-3 Figures denote stations
D Dayti	ime n			P Has Construction	Permit sharing time.
				only.	No information.
540 kc	s. (				- P. I. I. C.
CIRM ZNS	d	1000 400	F	Regina, Sask. Nassau, Bahamas	J. Richardsons Son Superintendent of Telegraphs
550 kc	s. (				Y C MAN O C
CFNB KFUO	a a	500 500	F(1) 2(1)	Fredericton, N. B. St. Louis, Mo.	James S. Neill & Sons Evangelical Lutheran Synod
KFYR	a	1000	N(5)	St. Louis, Mo. Bismarck, N. Dak.	Meyer Brdcstg. Co. State Agricultural Col.
KOAC KSD	a a	1000	2R(5)	Corvallis, Ore. St. Louis, Mo.	Pulitzer Pub. Co.
KTSA	а	1000	C(5)	San Antonio, Tex. Waterbury, Vt. Buffalo, N. Y.	KTSA Brdcstg. Co.
WDEV WGR	<b>a</b> a	500 1000	D C(5)	Waterbury, Vt.	Chas. B. Adams, Adm. Buffalo Brdcstg. Corp.
WKRC	a	1000	Č(5)	Cincinnati, Ohio	Columbia Brdcstg. Sys.
WSVA	a	500	D	Harrisonburg, Va. Merda, Yuc.	Shenandoah Valley Brdcstg. Corp. Julio Molina Font.
XEFC	a	100		Wielda, Tuc.	Juno Monna Tont.
560 kc	s. (	535.4	m.)		
KFDM	a	500	N(1)	Beaumont, Texas	Sabine Brdcstg. Co., Inc.
KLZ	а	1000	C(5)	Denver, Colo. San Francisco, Calif.	KLZ Brdcstg. Co. Associated Broadcasters, Inc.
KSFO KWTO	a a	1 <b>0</b> 00 5000	C(5) D	Springfield, Mo.	Ozarks Brdcstg. Co.
WFIL	a	1000	BMX	Philadelphia, Pa.	638 Pub. Ledger Bldg.
WIND	a	1000	(5)	Gary, Ind.	Johnson-Kennedy Radio Corp.
WIS WQAM	a a	1000 1000	N(5)	Columbia, S. C. Miami, Fla.	Station WIS, Inc. Miami Brdcstg. Co.
-		-00			
570 kc				H Cuba	Manuel D. Outran y Cia.
CMCY KGKO	a a	1000 <b>0</b> 1000	B(5)	Havana, Cuba Ft. Worth, Texas	KGKO Brdcstg. Co.
KMTR	a	1000		Los Angeles, Calif.	KMTR Radio Corp.
KVI	a	1000	C(5)	Tacoma, Wash	Puget Sound Brdcstg. Co., Inc.
WKBN	a	500	ıC	Youngstown, Ohio New York, N. Y.	WKBN Brdcstg. Corp. Knickerbocker Brdcstg. Co.
WMCA WNAX	a a	1000	C(5)	Yankton, S. Dak.	WNAX Brdcstg. Co.
WOSU	a	750	1(1)	Columbus, Ohio	Ohio State University Central N. Y. Brdcstg. Corp.
WSYR	a	1000	Ba	Syracuse, N. Y.	Central N. Y. Brdcstg. Corp.
WSYU WWNC	a a	1000 1000	Qa N	Syracuse, N. Y. Asheville, N. C.	Central N. Y. Brdcstg. Corp. Citizen-Times Co., Inc.
580 kc	g. (	5 <b>16</b> .9	m.)		
CFPR	a	50		Prince Rupert, B. C.	Felix E. Bat
CHRC	a	100		Quebec, P. Q.	CHRC, Ltd.

CKCL CKUA KMJ KSAC WCHS WDBO WIBW WILL WTAG XELO XEMU	a 100 a 500 a 1000 a 500 a 500 a 1000 a 1000 a 1000 a 1000 z 250	F KN 2(1) C(1) C(5) C2(5) DX R	Toronto, Ont. Edmonton, Alta. Fresno, Calif. Manhattan, Kans. Charleston, W. Va. Orlando, Fla. Topeka, Kans. Urbana, Ill. Worcester, Mass. Tijuana, B. Cfa. Piedras Negras, Coah.	Dominion Battery Co., Ltd. University, Alta McClatchey Brdcstg. Co. State College Charleston Brdcstg. Co. Orlando Brdcstg. Co., Inc. Topeka Brdcstg. Assn. University of Ill. Worcester Telegram Pub. Co. Radiodifusora de Picdras Negras Radiodifusora de Piedras Negras
590 kc	s. (508.2	m.)		
KHQ WEEI WKZO WOW	a 1000 a 1000 a 1000 a 1000	R(5) C(5) BDX R(5)	Spokane, Wash. Boston, Mass. Kalamazoo, Mich. Omaha, Nebr.	Louis Wasmer, Inc. CBS, Inc. WKZO, Inc. Woodmen of the World
600 kc	s. <b>(4</b> 99.7	m.)		
CFCF CJOR CMQ FQN KFSD WCAO WICC WMT WREC	a 500 a 500 a 25000 a 2500 a 1000 a 1000 a 1000 a 1000	BF 609 B CJ BM(1) BM(5) C(5)	Montreal, P. Q. Vancouver, B. C. Havana, Cuba St. Pierre, Miquelon San Diego, Calif. Baltimore, Md. Bridgeport, Conn. Cedar Rapids, Iowa Memphis, Tenn.	Canadian Marconi Co. G. C. Chandler Del Jabon Candado Radio Club St. Pierrais Airían Radio Corp., Ltd. Monumental Radio Co. Yankee Network, Inc. Iowa Brdestg. Co. WREC, Inc.
610 kc	s. <b>(491</b> .5	m.)		
KFAR KFRC WCLE WDAF WIOD WIP WMBF XEXM XEYO	z 1000 c 1000 a 500 a 1000 a 1000 a 1000 z 500 z 500	P M(5) DM R(5) Na  Qa .2	Fairbanks, Alaska San Francisco, Calif. Cleveland, Ohio Kansas City, Mo. Miami, Fla. Philadelphia, Pa. Miami, Fla. Mexico City, D. F. Mexico City, D. F.	Midnight Sun Brdcstg. Co. Don Lee Network, Inc. Cleveland Radio Brdcstg. Corp. Kansas City Star Co. Isle of Dreams Brdcstg. Corp. Fennsylvania Brdcstg. Co. Isle of Dreams Brdcstg. Corp. Secretaria de Education Publica Partido Nacional Revolucionaria
620 kc	s. (483.6	m.)		
KGW KTAR KWFT TIPG WFLA WHJB WLBZ WSUN WTMJ	a 1000 a 1000 z 250 z 2000 a 1000 a 250 a 500 a 1000 a 1000	R(5) N (1) P 625 Na(5) CD CM(1) Na(5) N(5)	Portland, Ore. Phoenix, Ariz. Wichita Falls, Tex. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis.	Oregonian Pub. Co. KTAR Brdestg. Co. Wichita Brdestg. Co. La Voz de la Victor Fla. West Coast Brdestg. Co. Pittsburgh Radio Supply House Maine Brdestg. Co., Inc. Chamber of Commerce The Journal Co.
630 kc	s. <b>(4</b> 75.9	m.)		
CFCO CFCY CJRC CKOV CMCD KFRU KGFX WGBF WGBF WPRO XEZ	a 100 a 1000 a 500 a 100 a 250 a 250 a 500 a 500 c 250 c 500	F F F(1) F 1(1) D NE(1) B(.5) C(1)	Chatham, Ont. Charlottetown, P.E.I. Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C. Providence, R. I. Merida, Yuc.	John Beardall Island Radio Brdcstg. Co. James Richardsons & Sons, Ltd. Okanagan Broadcasters, Ltd. La Voz del Aire KFRU, Inc. Mrs. Ida A. McNeil Evansville on the Air, Inc. National Brdcstg. Co. Cherry & Webb Brdcstg. Co. Jorge L. Palomeque

640 kc	s. <b>(46</b>	8.5 m	ι.)		
KFI WGAN WHKC WOI XEBX YSS	a z a a z a	50000 500 500 5000 250 5000	R DP ML D	Los Angeles, Calif. Portland, Me. Columbus, Ohio Ames, Iowa Sabinas, Coah. San Salvador, E. S.	Earle C. Anthony, Inc. Portland Brdcstg. Sys., Inc. Associated Radiocasting Corp. College of Agriculture Benito Garza Ortegon Republic of San Salvador
650 kc	s. (46	1.3 m	ı.)		
KIRO	z ( – -	250	GQ	Seattle, Wash.	Queen City Brdcstg. Co.
TIX		1000		San Jose, Costa Rica	Caccin City Diagong, Co.
WSM	a 5	0000	KMN	Nashville, Tenn.	Natl. Life & Accident Insurance Co.
660 kc	s. <b>(4</b> 5	<b>4</b> .3 m	ı.)		
WAAW	a	500	D	Omaha, Nebr.	Omah'a Grain Exchange
WEAF XEAL		0000 1000	R	New York, N. Y. Mexico City, D. F.	National Brdcstg. Co., Inc. Cia. Pan-Americana de Radio
XEAO	a	250		Mexicali, B. Cfa.	Chavezy Castro
670 kcs	s. (44	7.5 m	ı. <b>)</b>		
WMAQ	•	0000	R	Chicago, Ill.	National Brdcstg. Co., Inc.
*********	ر ۵	0000			Tradional Bluesig. Co., Inc.
680 kcs			•		
CMBQ KFEQ		5000 2500	P D	Havana, Cuba	Rufino Pazos Hernandez KFEQ, Inc.
KPO		0000	R	St. Joseph, Mo. San Francisco, Calif.	National Brdcstg. Co., Inc.
VAS		2000	685	Glace Bay, N. S.	Canadian Marconi Co.
VOWR	c	500	681	St. John's, Nfld.	Wesley United Church
WLAW	a	1000	D	Lawrence, Mass.	Hildreth & Rogers, Co.
WPTF	a	5000	N	Raleigh, N. C.	WPTF Radio Co.
690 kcs	s. <b>(4</b> 3	<b>4</b> .5 m	.)		
CFRB	a l	0000	C	Toronto, Ont.	Rogers Radio Brdcstg. Co.
CICI	a	100	F	Calgary, Alta.	Albertan Publishers, Ltd.
XET	a	50 <b>00</b>		Monterery, N. L.	El Pregonero del Norte
700 kcs	s. <b>(42</b> 8	3.3 m.			
WLW	a 50	0000	JKMN	Cincinnati, Ohio	Crosley Radio Corp.
710 kcs	s. <b>(42</b> )	2.3 m	.)		
KIRO	a	1000	СНЈ	Seattle, Wash.	Queen City Brdcstg. Co.
KMPC	a	500	L	Beverly Hills, Calif.	The Station of the Stars, Inc. Bamburger Brdcstg. Service
WOR		0000	KM	Newark, Ñ. J. Mexico City, D. F.	Radio Panamerica, S. A.
XEQ	a )	3000			
720 kcs	-		.)	II.	Radiodifusora O'Shea
CMK WGN	a 50	250 0000	KM	Havana, Cuba Chicago, Ill.	WGN, Inc.
XEH	a >	250		Monterrey, N. L.	Constantino de Ternava
				·	
730 kcs	s. (410		•		Y I Day Day
CFPL	a	100	F	London, Ont.	London Free Press North Western Publishers, Ltd.
CKAC		1000 5000	F C	Edmonton, Alta. Montreal, P. Q.	La Presse Publishing Co., Ltd.
CKPR	а. 2	100	F	Fort William, Ont.	Dougall Motor Car Co.
CMCL	z 10	0000	P	Havana, Cuba	Radio City
XEPN		0000	1117	Piedras Negras, Coah.	Piedras Negras Brdcstg. Co.
XERB	a 100	0000		Rosarito Beach, B. C.	

740 h	cs. (4	105.2 m	.)		
KMMI	a	1000	D	Clay Center, Nebr.	KMMJ, Inc.
KTRB	a	250	D	Modesto, Calif.	McTammany & Bates
WHEB	a	250	D	Portsmouth, N. H.	Granite State Brdcstg. Corp.
WSB	a	50000	R	Atlanta, Ga.	Atlanta Journal Co.
750 k	cs. (3	399.8 m	.)		
<b>CMBL</b>	z	500	111.	Havana, Cuba	Radio Cadena Suaritos
KGU	a	2500	LN	Honolulu, Hawaii	Advertiser Pub. Co., Ltd.
WJR	a	50000	C	Detroit, Mich.	WJR, The Goodwill Station
XEAA	a	200		Mexicali, B. Cfa.	Rosando Herrera
XEAM	z	25	1.12	Matamoros, Tams.	Manuel Salinas
760 l	ccs. (3	39 <b>4</b> .5 m	.)		
KXA	2	250	(.5)X	Seattle, Wash.	American Radio Tel. Co.
WBAL	a	2500	BMSy	Baltimore, Md.	WBAL Brdcstb. Co.
WCAL	a	1000	2(5)	Northfield, Minn.	St. Olaf College
WEW	a	1000	D	St. Louis, Mo.	St. Louis University
WJZ	а	50000	BSy	New York, N. Y.	National Brdcstg. Co.
WLB	a	1000	2(5)	Minneapolis, Minn. Tijuana, B. Cfa.	University of Minn. Carlos de la Sierra
XEOK	a	2500		iljuana, B. Cia.	Carlos de la Sierra
770 1	kcs. (	389.4 m	ı.)		
CMBF	z	5000		Havana, Cuba	Cia. Cubana de Radio y Television
KFAB	a	10000		Lincoln, Nebr.	KFAB Brdcstg. Co.
WBBM	1 a	50000	CSy	Chicago, Ill.	Columbia Brdcstg. Sys., Inc.
780	kcs. (	384.4 n	•		
CHW		100	F	Chilliwack, B. C.	Chilliwack Brdcstg. Co., Ltd.
CKSO	<b>a</b>	1000	F	Sudbury, Ont.	Sudbury Star Hearst Radio, Inc.
KEHE	a .	1000 1000	(5) D	Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska	S. Dak. State College
KFDY KFQD		250	D	Anchorage Alaska	Anchorage Radio Club
KGHL		1000	N(5)	Billings, Mont.	Northwestern Auto Supply Co.
KWL		250	DP	Longview, Wash.	Twin City Brdcstg. Corp.
WEAD	J a	1000	BM(5)	Providence, R. I.	Yankee Network, Inc.
WMC	a	1000	R(5)	Memphis, lenn.	Memphis Commercial Appeal
WPIC	z	250 1000	DP N	Sharon, Pa. Norfolk, Va.	Sharon Herald Pub. Co. WTAR Radio Corp.
WTAI XEN	} a a	1000	14	Mexico City, D. F.	"Radio Mundial"
ALIV	a	1000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
790	kcs. (	379.5 n	n. <b>)</b>		n 1: n: 1:
CMGI		250	В	Matanzas, Cuba San Francisco, Calif.	Radio Rialto National Brdeste, Co., Inc.
KGO	a √1 z	7500 1000	DN	Pittsburg, Kans.	Pittsburg Brdestg. Co., Inc.
KOAN WGY		50000	R	Schenectady, N. Y.	National Brdcstg. Co., Inc. Pittsburg Brdcstg. Co., Inc. General Electric Co.
_		(374.8 r	n.)		
ніх	2	800		Ciudad Trujillo, D. R.	J. R. Saladin
WBA		50000	Na	Fort Worth, Tex.	Carter Publications, Inc.
WFA.		50000	Na	Dallas, Texas	A. H. Belo Corp.
WTB		250	D	Cumberland, Md.	Associated Brdcstg. Corp.
310	kcs. (	(370.2 r	n.)		
CMC	Fa	5000		Havana, Cuba	General Electric of Cuba
WCC		50000	C	Minneapolis, Minn.	Columbia Brdcstg. Sys. City of New York
WNY	'C a	1000	D	New York, N. Y.	City of New York
XEBZ	Z a	100		Mexico City, D. F.	Refugio Esperza Vda. de Valezzi
XED.	F 2	100		Nuevo Laredo, Tams.	El Pregonero del Bravo

XEK

XEW

100

50000

а

2

#### NORTH AMERICAN B. C. STATIONS BY FREQUENCIES 820 kcs. (365.6 m.) **CMHW** Ċ Santa Clara, Cuba 500 Guillermo Domenech Galisch WHAS 50000 Louisville, Ky. a Louisville Times Co. XEBG 1000 Tijuana, B. Cfa. Angel B. Fernandez 830 kcs. (361.2 m.) CMJX a 150 Camaguey, Cuba Denver, Colo. Rodolfo Gonzales Solis National Brdcstg. Co., Inc. KOA 50000 R а WEEU 1000 D a Reading, Pa. Berks Brdcstg. Co. Boston, Mass. Gainsville, Fla. WHDH 1000 L Matheson Radio Co., Inc. WRUF 5000 University of Fla. a 840 kcs. (356.9 m.) CBL 50000 Toronto, Ont. а Canadian Brdcstg. Corp. CFOC VOGY 1000 Saskatoon, Sask. St. Johns, Nfld. a A. A. Murphy & Sons, Ltd. а 400 Newfoundland Hotel XERA 250000 Villa Acuna, Coah. Cia. Mexicana Radiodifusora Fronteriza а 850 kcs. (352.7 m.) **CMCM** 250 Cuba Havana, а Transradio Columbia KIEV 250 D Glendale, Calif. Cannon System, Ltd. а ĞQ **KWKH** 7. 1000 Shreveport, La. Elmira, N. Y. International Brdcstg. Corp. ČĎH DX WESG 1000 Cornell University a WKAR E. Lansing, Mich. Mich. State College а 1000 WWL 2 10000 CXNew Orleans, La. Loyola University 860 kcs. (348.6 m.) WABC 50000 Ca New York, N. Y. New York, N. Y. Columbia Brdcstg. Sys. Columbia Brdcstg. Sys. 8 WBOQ 50000 a Oa WHB Brdcstg. Co. Fernando Federico Ferreira C. de T. de la Industria Electrica Kansas City, Mo. Tijuana, B. Cfa. Mexico City, D. F. WHB 1000 DM а XEMO 5000 а XENC 7 50 870 kcs. (344.6 m.) Chicago, Ill. WENR 50000 BaNational Brdcstg. Co., Inc. а WLS 50000 Ba Chicago, Ill. Agricultural Brdcstg. Co. a XEFB Monterrey, N. L. Jesus Quintanilla Dr. Jose Luis Garza G. а 200 XEIW Mexico City, D. F. 500 7 880 kcs. (340.7 m.) **CBO** 1000 F Ottawa, Ont. Canadian Brdcstg. Corp. a F CFJC а 1000 Kamloops, B. C. Kamloops Sentinal, Ltd. Havana, Cuba Greeley, Colo. Oakland, Calif. Denver, Colo. CMW x 1400 я Troncoso y Gil 2M(1) KFKA KLX 500 3 Mid-Western Radio Corp. Tribune Bldg. Co. Pillar of Fire 1000 a **KPOF** a 1000 2 Meridian, Miss. Scranton, Pa. Scranton, Pa. Ĉ C1(1) WCOC 1000 а Mississippi Brdcstg. Co. Scranton Broadcasters, Inc. Scranton Times **WGBI** а 500 1(1) WQAN 500 а WRNL а 500 DX Richmond, Va. Iowa City, Iowa WLBG, Inc. WSUI а 500 (1) University of Iowa 890 kcs. (336.9 m.) KARK Little Rock, Ark. а 500 N(1)Ark. Radio & Equipment Co. KFNF, Inc. KFNF 500 2X(1) Shenandoah, Iowa а KFPY 1000 C(5) Spokane, Wash. Symons Brdcstg. Co. University of S. Dak. я KUSD а 500 Vermillion, S. Dak. (1) W. Lafayette, Ind. WBAA 500 a Purdue University WGST 1000 Č(5) а Atlanta, Ga. Ga. School of Technology Providence, R: I: Fairmont, W. Va. Mexico City, D. F. The Outlet Co. WIAR 2 1000 R(5) WMMN а 500 $C\hat{X}(1)$ Monongahela Valley Brdcstg. Co.

Mexico City, D. F.

Arturo Martinez

Cadena Radiodifusora Mexicana

900 kcs.	(333.1 m.)		
KGBU AR KHJ AR KSEI WBEN WELI WFMD WJAX WKY AR WLBL	500 X 1000 M(1 250 N(1 1000 R(5 500 D 500 D 1000 N(1 1000 N(5 500 D	) Pocatello, Idaho ) Buffalo, N. Y. New Haven, Conn. Frederick, Md. ) Jacksonville, Fla. ) Oklahoma City, Okla. Stevens Point, Wis.	Alaska Radio & Service Co. Don Lee Brdcstg. Sys. Radio Service Corp. WBEN, Inc. City Brdcstg. Corp. Monocacy Brdcstg. Co. City of Jacksonville WKY Radiophone Co. Dept. of Agriculture & Markets
WTAD a		Quincy, III.	Illinois Brdcstg. Corp.
910 kcs.	` '	Market B. O.	C. I'm P. Im.
CBF a CJAT a CKY a XENT a	1000 F 15000 F	Montreal, P. Q. Trail, B. C. Winnipeg, Man. Nuevo Laredo, Tams.	Canadian Brdcstg. Corp. Kootenay Brdcstg. Co., Ltd. Manitoba Telephone Sys. Cia. Industrial Universal, S. A.
920 kcs.	(325.9.)		
CMX a KFEL a KOMO a KPRC KVOD a WAAF WORL a WPEN WRAX WSPA WWJ a A	500 Ma 1000 R (5 1000 B (5 500 Ba 1000 D 500 D 1000	Havana, Cuba Denver, Colo. ) Seattle, Wash. ) Houston, Texas Denver, Colo. Chicago, Ill. Boston, Mass. Philadelphia, Pa. Philadelphia, Pa. Spartanburg, S. C. Detroit, Mich.	Casa Lavin Eugene P. OFallon, Inc. Fishers Blend Station, Inc. Houston Printing Corp. Colorado Radio Corp. Drovers Journal Pub. Co. Brostsg. Service Organization Wm. Penn Brdcstg. Co. WRAX Brdcstg. Co. Voice of S. Carolina Evening News Assn.
930 kcs.	(322.4 m.)		
930 kcs.  CFAC CFCH aCFLC aCKPC aCKPC aKMA KROW WBRC WBRC WDBI XEBH a	1000 F 100 F 100 F 1000 F 1000 F 1000 B(5 1000 C(5	Oakland, Calif. Birmingham, Ala.	South Western Publishers, Ltd. Northern Brdc. Co. Radio Ass'n. of Prescott Maritime Brdcstg. Co., Ltd. Telephone City Brdcstg. Ltd. Earl E. May Co. Educational Brdcstg. Co'rp. Birmingham Brdcstg. Co. Times World Corp. Carlos Balderrama
CFAC and CFCH and CFLC and CKPC and KMA kROW and WBRC wDBI and XEBH and CFC an	1000 F 100 F 100 F 1000 F 1000 F 1000 B(5 1000 1000 R(55 1000 C(5	North Bay, Ont. Prescott, Ont. Halifax, N. S. Brantford, Ont. ) Shenandoah, Iowa Oakland, Calif. Birmingham. Ala. ) Roanoke, Va.	Northern Brdc. Co. Radio Ass'n. of Prescott Maritime Brdcstg. Co., Ltd. Telephone City Brdcstg. Ltd. Earl E. May Co. Educational Brdcstg. Co'rp. Birmingham Brdcstg. Co. Times World Corp.
CFAC and CFCH and CFLC and CKPC and KMA kROW and WBRC wDBI and XEBH and CFC an	1000 F 100 F 100 F 100 F 1000 F 1000 B(5 1000 C(5 500 D 1000 R(2 1000 R(2 1000 R(2 1000 N(5 5000 D 2500 D	North Bay, Ont. Prescott, Ont. Halifax, N. S. Brantford, Ont. Shenandoah, Iowa Oakland, Calif. Birmingham. Ala. Roanoke. Va. Hermosillo, Son.  Portland, Ore. Jersey City, N. J. Louisville, Ky. Portland, Me.	Northern Brdc. Co. Radio Ass'n. of Prescott Maritime Brdcstg. Co., Ltd. Telephone City Brdcstg. Ltd. Earl E. May Co. Educational Brdcstg. Co'rp. Birmingham Brdcstg. Co. Times World Corp.
CFAC CFCH CFCH CFLC CHNS CKPC KMA KROW WBRC WDBI XEBH AWDBI XEBH AWDBI WAVE WCSH WCSH WDAY WHA WICA XEFO	1000 F 100 F 100 F 100 F 1000 F 1000 B(5 1000 C(5 500 D 1000 R(2 1000 R(2 1000 R(2 1000 R(2 1000 N(5 5000 D 2550 D	North Bay, Ont. Prescott, Ont. Halifax, N. S. Brantford, Ont. Shenandoah, Iowa Oakland, Calif. Birmingham. Ala. Roanoke. Va. Hermosillo, Son.  Portland, Ore. Jersey City, N. J. Louisville, Ky. Portland, Me. Fargo, N. Dak. Madison, Wis. Ashtabula, Ohio	Northern Brdc. Co. Radio Ass'n. of Prescott Maritime Brdcstg. Co., Ltd. Telephone City Brdcstg. Ltd. Telephone City Brdcstg. Ltd. Earl E. May Co. Fducational Brdcstg. Co'rp. Birmingham Brdcstg. Co. Times World Corp. Carlos Balderrama  KOIN, Inc. Bremer Brdcstg. Corp. WAVE, Inc. Congress Sq. Hotel Co. WDAY, Inc. University of Wis.

960 k	cs. (	312.3 n	1.)		
CFRN CHNC CMKS CRCY XEAW	a z c c	100 1000 60 100 100000	F F	Edmonton, Alta. New Carlisle, P. Q. Guantanamo, Cuba Toronto, Ont. Reynosa, Tams.	G. R. A. Rice Gaspesian Radio Co., Ltd. Candido Savon Suarez Canadian Brdcstg. Corp. Cia. Int. Difusora Reynosa
970 k	cs. (	309.1 n	1.)		
CMBY KJR WCFL WIBG	z a a a	200 5000 5000 100	B N D	Havana, Cuba Seattle, Wash. Chicago, Ill. Glenside, Pa.	Callejas y Estefani Fishers Blend Station, Inc. Chicago Federation of Labor Seaboard Brdcstg. Corp.
980 k	cs. (	306 m.	)		
KDKA Xeac Xefe	b a z	50000 1000 250	B Z Z	Pittsburgh, Pa. Tijuana, B. Cfa. Nuevo Laredo, Tams.	Westinghouse Elec. & Mfg. Co. Jorge I. Rivera Rafael T. Carranza
990 k	cs. (	302.8 m	ι.)		
CMKL WBZ WBZA XEAF XES	z a a a a	200 50000 1000 750 250	BSy BSy	Bayamo, Cuba Boston, Mass. Springfield, Mass. Nogales, Son. Tampico, Tams.	Alberto Alvarez Ferrera Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. Francisco G. Elias Fernando Sada
1000	kcs.	(299.8	m.)		
CMBZ KFVD VOCM WHO XEBI	a a z a	500 1000 200 50000 25	X(1) L 1006 KR	Havana, Cuba Los Angeles, Calif. St. John's Nfld. Des Moines, Iowa Aguascalientes, Ags.	Radio Salas Standard Brdcstg. Co. St. John's Eve. Telegram Central Brdcstg. Co. Pedro C. Rivas
1010	kcs.	(296.9	m.)		
CHML CKCD CKCK CKCO CKIC CKWX CMJA KGGF KQW WHN WNAD WNAD XFFQ XEU	a a a a	100 100 1000 1000 100 50 1000 250 1000 100	F 1 F F 1  2M M (5) 2 C(5)	Hamilton, Ont. Vancouver, B. C. Regina, Sask. Ottawa, Ont. Wolfville, N. S. Vancouver, B. C. Camaguey, Cuba Coffeyville, Kans. San Jose, Calif. New York, N. Y. Norman, Okla. Knoxville, Tenn. Cananea, Son. Veracruz, Ver.	Maple Leaf Radio Co. Vancouver Daily Province Leader-Post, Ltd. Dr. G. M. Geldert Acadia University Western Brdestg. Co., Ltd. Rafael Valdes Powell & Platz Pacific Agricultural Foundation Marcus Loew Booking Agency University of Okla. Scripps-Howard Radio, Inc. Pedro L. Diaz Fernando Pazos S.
1020	kcs.	(293.9	m.)		
KYW Wdz Xej	a a a	10000 250 1000	R D	Philadelphia, Pa. Tuscola, III. Juarez, Chih.	Westinghouse Elec. & Mfg. Co. WDZ Brdcstg. Co. Pedro Meneses, Jr.
1030	kcs.	(291.1	m.)		
CFCN CJBR CKLW CMCK XEB		10000 1000 5000 5000 10000	F FM	Calgary, Alta. Rimouski, P. Q. Windsor, Ont. Havana, Cuba Mexico City, D. F.	Voice of the Prairies, Ltd. J. A. Brillant Western Ont. Brdestg. Co. Luis Casas R. El Buen Tono, S. A.

1040 kcs.	(288.3	m.)		
KRLD a	10000	сx	Dallas, Texas	KRLD Radio Corp.
KTHS a	1000	GQ	Hot Springs, Ark.	Chamber of Commerce
KWJJ a	500 250	D H	Merced, Calif.	KWJJ Broadcast Co. Merced Star Pub. Co.
KYÓS b WESG z	1000	GQ	Portland, Ore. Elmira, N. Y.	Cornell University
WTIC a	50000	R	Hartford, Conn.	Travelers Brdcstg. Service Corp.
1050 kcs.	(285.5)	m.)		
CBM a	5000	FR	Montreal, P. Q.	Canadian Brdcstg. Corp.
CMKD a HIT z	1000 50	* • • •	Santiago, Cuba Ciudad Trujillo, D. R.	Radioemisora Oriental A. L. Pichardo
KFBI a	5000	L	Abilene, Kans.	Farmers and Bankers Brdcstg. Corp.
KNX a	50000	C	Los Angeles, Calif.	CBS, Inc.
WEAU z	1000 1000	D D	Eau Claire, Wis. Indianapolis, Ind.	Central Brdcstg. Co. Indiana Brdcstg. Corp.
WIBC z	1000	D	indianapons, ind.	ilidialia bidestg. Corp.
1060 kcs.	(282.8	m.)		
KTHS z	1000	HN	Hot Springs, Ark.	Chamber of Commerce
KWJJ z VOAC z	500 40	GQ 1065	Portland, Ore. St. John's, Nfld.	KWJJ Broadcast Co., Inc.
WBAL a	10000	внм	Baltimore, Md.	WBAL Brdcstg. Co.
WJAG a	1000	DH P	Baltimore, Md. Norfolk, Nebr.	Norfolk Daily News
W3XJ z	100	Р	College Park, Md.	McNary & Chambers
1070 kcs.	(280.2	m.)		
CMBX a	150		Havana, Cuba	Vicente Espinosa
CMHA z	50	į 111.	Sagua la Grande, Cuba	Abelardo Menocal
KJBS a WCAZ a	500 100	D D	San Francisco, Calif. Carthage, Ill.	Julius Brunton & Sons Superior Brdcstg. Service., Inc.
WTAM a	50000	R	Cleveland, Ohio	National Brdcstg. Co., Inc.
1000 1	/077 C	\		
1080 kcs.	(277.6)	•		
WBT a WCBD a	50000 5000	C 1 <b>L</b>	Charlotte, N. C.	Columbia Brdcstg. Sys. WCBD, Inc.
WMBI a	5000	ìĹ	Chicago, Ill. Chicago, Ill.	Moody Bible Institute
XEBA z	20	ū	Guzman, Jal.	Moody Bible Institute Javier Velasco
XEBK 2 XEDP a	100 500		Nuevo Laredo, Tams.	Indo Latin Voice
11221 "			Mexico City, D. r.	Doto, de Publicidad y Propaganda
		2111	Mexico City, D. F.	Dpto. de Publicidad y Propaganda
1090 kcs.	(275.1		Mexico City, D. F.	Opto. de Publicidad y Propaganda
HIN a	( <b>275.1</b>	m.)	Ciudad Trupillo, D. R.	Frank Hatton
	(275.1			
HIN a	( <b>275.1</b>	<b>m.)</b>	Ciudad Trupillo, D. R.	Frank Hatton
HIN a KMOX a	(275.1  740 50000  (272.6  5000	m.) C m.) F	Ciudad Trupillo, D. R. St. Louis, Mo.	Frank Hatton Columbia Brdcstg. Sys. Canadian Brdcstg. Corp.
HIN a KMOX a a a look cs.	(275.1  740 50000  (272.6  5000 1000	m.) C m.) F DM	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif.	Frank Hatton Columbia Brdcstg. Sys. Canadian Brdcstg. Corp. E. F. Peffer
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1  740 50000  (272.6  5000 1000 10000	m.) C m.) F	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp.
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1 740 50000 (272.6 5000 10000 10000 5000 5000	m.)  F DM CH	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1 740 50000 (272.6 5000 1000 10000 5000	m.)  C  m.)  F  DM  CH  1	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1 740 50000 (272.6 5000 10000 5000 5000 5000 250	m.)  F DM CH C1	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1 740 50000 (272.6 5000 10000 10000 5000 5000	m.)  F DM CH C1	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City
HIN a A A A A A A A A A A A A A A A A A A	(275.1 740 50000 (272.6 5000 10000 10000 5000 250 (270.1 500 5000 5000	m.)  F DM CH 1 C1  m.)  X LN	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City Financiera de Inversiones, S. A.  Radio Emisora Comercial Sioux Falls Broadcast Assn.
HIN a A A A A A A A A A A A A A A A A A A	(275.1 740 50000 (272.6 5000 1000 5000 5000 250 (270.1 500	m.)  F DM CH t C1 x	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City Financiera de Inversiones, S. A.  Radio Emisora Comercial
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1 740 50000 (272.6 5000 10000 5000 5000 250 (270.1 500 5000 5000 5000	m.)  F DM CH 1 C1  m.)  X LN CM	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City Financiera de Inversiones, S. A.  Radio Emisora Comercial Sioux Falls Broadcast Assn.
HIN a a A A A A A A A A A A A A A A A A A	(275.1 740 50000 (272.6 5000 1000 1000 5000 250 (270.1 500 5000 5000 5000 5000 5000 5000 5000 5000 5000 60	m.)  F DM CH 1 C1  m.)  x LN CM m.)	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.  Havana, Cuba Sioux Falls, S. Dak. Richmond, Va.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City Financiera de Inversiones, S. A.  Radio Emisora Comercial Sioux Falls Broadcast Assn. Larus & Bros. Co., Inc.
HIN a KMOX a a a a a a a a a a a a a a a a a a a	(275.1 740 50000 (272.6 5000 10000 5000 5000 250 (270.1 500 5000 5000 5000	m.)  F DM CH 1 C1  m.)  X LN CM	Ciudad Trupillo, D. R. St. Louis, Mo.  Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	Frank Hatton Columbia Brdcstg. Sys.  Canadian Brdcstg. Corp. E. F. Peffer International Brdcstg. Corp. Arde Bulova City of Atlantic City Financiera de Inversiones, S. A.  Radio Emisora Comercial Sioux Falls Broadcast Assn.

CKOC a CKX a CMGF a CMKM a CRCS a KFIO a KFSC a KRKD a KRSC a KTBC z WCOP a WDEL a WISN a WISN a WJBO a WTAW a	500 F(1) 1000 F 75 100 F 100 D 500 a(2.5) 250 1000 DP 500 D 250 R(.5) 250 C(1) 500 L	Hamilton, Ont. Brandon, Man. Matanzas, Cuba Manzanillo, Cuba Chicoutimi, P. Q. Spokane, Wash. Los Angeles, Calif. Los Angeles, Calif. Seattle, Wash. Austin, Texas Boston, Mass. Wilmington, Del. Milwaukee, Wis. Baton Rouge, La. College Station, Tex.	Wentworth Radio Brdcstg. Co. Manitoba Telephone Sys. Bernabe R. de la Torre Raimundo Comas Soler Canadian Brdcstg. Corp. Spokane Brdcstg. Corp. Echo Park Evangelistic Assn. Radio Broadcasters, Inc. Radio Sales Corp. State Capitol Brdc. Assn. Mass. Brdcst'g. Corp. WDEL, Inc. Hearst Radio, Inc. Baton Rouge Brdcst. Co. Agricultural and Mechanical College
1130 kcs.	(265.3 m.)		
CMJI a KSL a WJJD a WOV a XEJP z	150 50000 C 20000 L 1000 D 100	Ciego de Avila, Cuba Salt Lake City, Utah Chicago, Ill. New York, N. Y. Mexico City, D. F.	Gilberto Gesse Lopez Radio Service Corp. WJJD, Inc. International Brdcstg. Corp. Salvador Monterrubio R.
1140 kcs.	(263 m.)		
CMCW b KVOO a WAPI a WSPR a	150 25000 N 5000 C 500 DM	Havana, Cuba Tulsa, Okla. Birmingham, Ala. Springfield, Mass.	J. Vilarino y Cia. Southwestern Sales Corp. University of Ala. State College Conn. Valley Brdcstg. Co.
1150 kcs.	(260.7 m.)		
CMJF z WHAM a XEBP z XEC a XEDW z	200 50000 B 250 100	Camaguey, Cuba Rochester, N. Y. Durango, Dgo. Tijuana, B. Cfa. Minatitlan, Ver.	John L. Stowers Stromberg-Carlson Mfg. Co. Manuel Canc. Maldonado Luis F. Encisco Hector Silva Canto
1160 kcs.	(258.5 m.)		
CMHJ a CMKG z WOWO a WWVA a XEAS a XED a XEFM z XEP a	1000 10000 1B 5000 1C 100 2500 20 500	Cienfuegos, Cuba Santiago, Cuba Fort Wayne, Ind. Wheeling, W. Va. Saltillo Coah. Guadalajara, Jal. Leon, Gto. Juarez, Chih.	Romualdo Ugalde Emilio Grau Medina Westinghouse Station W. Va. Brdestg. Corp. La Voz del Comercio en Saltillo Cia. Radiofonografica Raul Ortis Esteban Perra
1170 kcs.	(256.3 m.)		
CMBS a WCAU a XEXX z	150 X 50000 C 1000	Havana, Cuba Philadelphia, Pa. Mexico City, D. F.	Enrique Artalejo WCAU Brdcstg. Co.
1180 kcs.	(254.1 m.)		
CMJO a KEX a KOB a WDGY a WINS a WMAZ a XEFA z	50 2B 5000 2B 10000 2N 1000 1000 1000 C(5) 500	Ciego de Avila, Cuba Portland, Ore. Albuquerque, N. Mex. Minneapolis, Min. New York, N. Y. Macon, Ga. Tavuba, D. F.	Bonifacio Ildefonso Oregonian Pub. Co. Albuquerque Brdestg. Co. Dr. Geo. W. Young Hearst Radio, Inc. Southeastern Brdestg. Co. Eduardo Limon Segui
1190 kcs. CMKX z KTKC a	(252 m.)  75 250 D	Santiago, Cuba Visalia, Calif.	Oscar Vidal Benitez Tulare-Kings Counties Radio Ass'n.

VONF WATR WOAI WSAZ	a a a	500 100 50000 1000	1195 DXZ N L	St. John's Nfld. Waterbury, Conn. San Antonio, Tex. Huntington, W. Va.	Dominion Brdcstg. Co., Ltd. WATR Co., Inc. Southland Industries, Inc. WSAZ, Inc.
1200	kcs.	(249.9	m.)		
CFGP	z	100	G	Frande Prairie, Alta.	Northern Brdcstg. Corp.
CHAB	a	100	F	Moose Jaw, Sask.	CHAB, Ltd.
CKNX	b	100 100	F	Wingham, Ont.	Wingham Radio Club.
CKTB CMCO	a a	150	F	St. Catharines, Ont. Havana, Cuba	E. T. Sandell Enrique Lasanta
KADA	a	100	M	Ada, Okla.	C. C. Morris
KBTM	a	100	D	Jonesboro, Ark.	Regional Brdcstg. Co.
KDNC	Z	100	(.25)P	Lewistown, Mont.	Democrat-News Co.
KELO	Z	100	N (25)	Sioux Falls, S. Dak.	S. F. Broadcast Ass n.
KFJB KFXD	a a	100 100	(.25) (.25)	Marshalltown, Iowa Nampa, Idaho	Marshall Electric Co. Frank E. Hurt
KFXJ	a	100	(.25)	Grand Junction, Colo.	Western Slope Brdcstg. Co.
KGCI	z	100	ĎP	Coeur d'Alene, Idaho	C. A. Berger and S. S. Freeman
KGDE	c	100	(.25)	Fergus Ralls, Minn.	Charles L. Jaren
KGEK	а	100	L	Sterling, Colo.	Elmer G. Beehler
KGFJ	a	100	7.22	Los Angeles, Calif.	Ben S. McGlashen
KGHI	a z	100 100	(.25) DP	Little Rock, Ark. Greenville, Tex.	Arkansas Brdcstg. Co.
KGVL KMLB	a	100	(.25)	Monroe, La.	Hunt Brdcstg. Ass'n. Liner's Brdcstg. Station, Inc.
KOOS	a	100	(.25)	Marshfield, Ore.	KOOS, Inc. Copper Electric Co., Inc. Golden Empire Brd. Co.
KSUN	a	100	(.25)	Lowell, Ariz.	Copper Electric Co., Inc.
KVCV	а	100		Redding, Calif.	Golden Empire Brd. Co.
KVEC	a	100 100	(.25)	San Luis Obispo, Calif.	Valley Elec. Co.
KVOS KWG	b a	100	M N	Bellingham, Wash. Stockton, Calif.	KVOS, Inc. McClatchy Brdcstg. Co.
KWNO	_	250	D	Winona Minn	Winona Radio Service
WABI	a	100	(.25)	Winona, Minn. Bangor, Maine	Community Brdcstg. Service
WAIM	a	100	C	Anderson, S. C.	Anderson College
WAYX		100	(.25)	Waycross, Ga.	Waycross Brdcstg. Co.
WBBZ	а	100 100		Ponca City, Okla	Adelaide L. Carrell
WBHP	a a	100	2	Huntsville, Alta. New Orleans, La.	Wilton H. Pollard Coliseum Place Baptist Church
WBNO WCAT	a	100	Ď	Rapid City, S. Dak.	School of Mines
WCAX	a	100	(.25)	Rapid City, S. Dak. Burlington, Vt. Janesville, Wis. Cincinnati, Ohio	Burlington Daily News, Inc.
WCLO	a	100	(.25)	Janesville, Wis.	Gazette Printing Co.
WCPO	а	100	(.25)	Cincinnati, Ohio	Scripps-Howard Radio
WDSM		100 250	p	Superior, Wis. Elmira, N. Y. Easton, Pa.	Fred A. Baxter Elmira Star-Gazette
WENY	z a	100	DP 3(.25)	Eimira, IV. I.	Associated Broadcasters, Inc.
WEST WFAM		100	4	South Bend, Ind.	South Bend Tribune
WFTC	ā	100	(.25)	iKnston, N. C.	Jonas Weiland
WHBC	a	100	(.25)	iKnston, N. C. Canton, Ohio	Ohio Brdeste Co
WHBY	a	100	(.25)	Green Bay, Wis. Utica, N. Y.	WHBY, Inc.
WIBX	a	100 100	C(.25)	Utica, N. Y.	WIBA, Inc.
WIL WJBC	a a	100	(.25) 5(.25)	St. Louis, Mo. Bloomington, Ill.	Missouri Brdcstg. Corp. Kaskaskia Brdcstg. Co.
WJBL	ā	100	5	Decatur, Ill.	Commodore Brdcstg. Co.
WJBW	a	100	2	New Orleans, La.	Charles C. Carlson
WJHL	z	100	(.25)P	Johnson City, Tenn.	Johnson City Brdcstg. Co.
WJNO	a	100	C(.25)	W. Palm Beach, Fla.	WJNO, Inc.
WJRD	a	250 100	D 3(.25)	Juscaloosa, Ala.	Voyetana Brdesta Cost
WKBO WLVA	a a	100	(.25)	Tuscaloosa, Ala. Harrisburg, Pa. Lynchburg, Va. High Point, N. C.	Keystone Brdcstg. Corp. Lynchburg Brdcstg. Corp.
WMFR		100	D.2.77	High Point, N. C.	Radio Station WMFR, Inc.
WMPC		100	(.25)	Lapeer, Mich.	First Methodist Church
WOLS	Z	100	D	Florence, S. C.	O. Lee Stone
WRBL	a	100	(.25)	Columbus, Ga. Salisbury, Md. Hartford, Conn.	Columbus Brdcstg. Co.
WSAL WTHT	z	250 1 <b>0</b> 0	D M	Hartford Conn	Frank M. Stearns Hartford Times, Inc.
WTOL	a <b>a</b>	100	D	Toledo, Ohio	Community Brdcstg. Co.
WWAE		100	4	Hammond, Ind.	Hammond-Calumet Corp.
XEBU	z	50		Chihuahua, Chih.	Feliciano Lopez Islas

1010	1	(047.0	\		
	KCS.	(247.8)	m.)		
CHLT CJCS	z	100 50		Sherbrooke, P. Q.	La Tribune, Ltd. Frank M. Squires
CJCU	a z	50		Stratford, Ont. Aklavik, N. W. T.	Dr. J. A. Urquahart
CKBI	a	100	F F	Prince Albert, Sask.	Prince Albert Radio Club
CKCH	a	100	F	Hull, P. Q. Cobalt, Ont.	CKCH Radio Brdcstg. Co. R. L. MacAdam
CKMC CMHI	a a	250 250		Santa Clara, Cuba	Lavis y Paz
KALB	a	100	(.25)	Santa Clara, Cuba Alexandria, La. Wichita, Kans.	Alexandria Brdcstg. Co.
KANS	а	100	N	Wichita, Kans.	KANS Brdcstg. Co.
KASA KDLR	c a	100 100		Elk City, Okla. Devils Lake, N. Dak.	KANS Brdcstg. Co. E. M. Woody KDLR, Inc.
KDON		100	M	Monterey, Calif.	Monterey Peninsula Brdcstg. Co.
KFJI	a	100		Klamath Fails, Ore.	KFJI Broadcasters, Inc.
KFOR KFPW	a a	100 100	CM (.2)	5) Lincoln, Nebr. Fort Smith, Ark.	Cornbelt Brdcstg. Corp. Southwestern Hotel Co.
KFVS	a	100	5(.25)	Tott Simin, Tirk.	Radio Station KFVS
KFXM	a	100	2M	San Bernardino, Calif.	Lee Brothers Brdcstg. Co.
KGLO	a	100 100	M (1.25)	Mason City, Iowa	Mason City Globe Gazette KGY, Inc.
KGY KHBG	a z	100	D	Olympia, Wash. Okmulgee, Okla.	Okmulgee Brdc. Corp.
KIUL	a	100	1511	Garden City, Kans.	Garden City Brdc. Co.
KLAH	a	100	(.25)	Carlsbad, N. Mex.	Carlsbad Brdcstg. Co.
KOCA KPFA	a a	100 100	N(.25)	Garden City, Kans. Carlsbad, N. Mex. Kilgore, Texas Helena, Mont.	Carlsbad Brdcstg. Co. Oil Capital Brdc. Ass'n. Peoples Forum of the Air
KPPC	a	100	2	Pasadna, Calif.	Pasadena Presbyterian Church
KROY	a	100	CD	Sacramento, Calif.	Royal Miller
KVSO KWJB	a z	100 100		Ardmore, Okla. Globe, Ariz.	Ardmoreite Pub. Co. Sims Brdcstg. Co.
WALR	a	100		Zanesville, Ohio	WALR Brdcstg. Corp.
WBAX		100 100	M S	Wilkes-Barre, Pa.	John H. Stenger, Jr.
WBBL WBLY	a a	100	D	Richmond, Va. Lima, Ohio	Grace Presbyterian Church Herbert Lee Bly
WBRB	a	100	3	Red Bank, N. J.	Monmouth Brdeste, Co.
WCOL	a	100	N	Red Bank, N. J. Columbus, Ohio Lewiston, Maine	WCOL, Inc. Twin City Brdcstg. Co., Inc. Allen & Covington Clinton R. White Harrisburg Brdcstg. Co.
WCOV WCOU	a z	100 100	DP	Montgomery, Ala.	Allen & Covington
WCRW		100	4	Chicago, III	Clinton R. White
WEBQ	a	100 100	5(.25) 4	Harrisburg, Ill.	Harrisburg Brdcstg. Co.
WEDC WFAS	a a	100	3	Chicago, Ill. White Plains, N. Y.	Emil Denmark Westchester Brdcstg, Corp.
WFOY	a	100	(.25)	St. Augustine, Fla.	Westchester Brdcstg. Corp. Fountain of Youth Properties
WGBB	a	100 100	3	Freeport, N. Y.	Harry H. Carman WGGM, Inc.
WGCM WGNY		100	(.25)	Gulfport, Miss. Newburgh, N. Y.	Peter Goelet
WGRM		100		Grenada, Miss.	P. K. Ewing
WHAI	Z	250 100	DP	Greenfield, Mass.	P. K. Ewing John W. Haigis Rock Island Brdcstg. Co.
WHBF WHBU	a a	100	(.25) (.25)	Rock Island, Ill. Anderson, Ind.	Anderson Brdcstg. Corp.
WIBU	a	100	(.25)	Anderson, Ind. Poynette, Wis. Gadsden, Ala.	Wm. C. Forrest
WJBY	a	100 100	(.25)	Gadsden, Ala.	Gadsden Brdcstg, Co.
WJEJ WJIM	a z	100	(.25)	Hagerstown, Md. Lansing, Mich.	Hagerstown Brdcstg. Co. Harold F. Gross
WJMC	z	250	DP	Rice Lake, Wis.	Harold F. Gross Walter H. McGenty
WITN	a	100 100	B(.25)	Jamestown, N. Y.	James Brdcstg. Co., Inc.
WJW WKOK	a a	100	(.25) L	Akron, Ohio Sunbury, Pa.	WJW, Inc. Sunbury Brdcstg. Corp.
WMFG	a	100	(.25)	Hibbing, Minn.	Head of the Lakes Brdcstg. Co.
WOCB	z	100 100		Cape Cod, Mass.	Cape Cod Brdcstg. Co.
WOMT WPAX	a a	100	D	Manitowoc, Wis. Thomasville, Ga.	Francis M. Kadow H. Wimpy
WRAL	z	100	(.25) P	Raleigh, N. C.	Capitol Brdcstg. Co., Inc.
WSAY	z	100 100	(.25)	Raleigh, N. C. Rochester, N. Y. Chicago, Ill.	Brown Radio Service
WSBC WSIX	a a	100	(.25)	Nashville, Tenn.	WSBC, Inc. WSIX, Inc.
WSNJ	z	100	Ď	Bridgeton, N. J.	Eastern States Brdc. Corp.
wsoc	a a	100 100	N(.25)	Nashville, Tenn. Bridgeton, N. J. Charlotte, N. C. Springfield, Ill.	WSOC, Inc. WTAX, Inc.
WTAX XEAT	a a	250		Parral, Chih.	David G. Cervantes
45-4/14	•			•	

XEE XEFV XETH	a a z z	50 100 100 100 100	(.25) P (.25) P	Durango, Dgo. Juarez, Chih. Puebla, Pue. Charleston, S. C. Petersburg, Va.	Alejandro O. Stevenson, Jr. Dario Cordoba Ramon Huerta G. Scarborough and Orvin Petersburg Newspaper Corp.
1220	kcs.	(245.8	m.)		
CMJE	z	50	. 477	Camaguey, Cuba Lawrence, Kans.	Primo Alfonso Casares
K <b>FKU</b> K <b>TMS</b>	a	1000 500	a(5) B	Lawrence, Kans.	University of Kans. News Press Pub. Co.
KTW	z a	1000	2 <b>S</b>	Santa Barbara, Calif. Seattle, Wash.	First Presbyterian Church
KWŚC	a	1000	2(5)	Pullman, Wash.	State College
WCAD		500	D	Pullman, Wash. Canton, N. Y.	St. Lawrence University
WCAE WDAE	a a	1000 1000	MR(5) C(5)	Pittsburgh, Pa. Tampa, Fla.	Tampa Times Co
WREN		1000	Ba(5)	Lawrence, Kans. Mazatlan, Sin.	WCAE, Inc. Tampa Times Co. WREN Brdcstg. Co.
XEBL	a	50		Mazatlan, Sin.	Ignacio L. Saiz
XEDA Xet <b>f</b>	Z a	200 12		Gral. Anaya, D. F. Veracruz, Ver.	Pedro Reistra Diaz Jose Rodriguez Lopez
1230	kcs.	(243.8	m.)		
CMBC	z	150	2351	Havana, Cuba	La Metropolitana
KGBX	a	500	N	Springfield, Mo.	Springfield Brdcstg. Co.
KGGB KYA	a a	1000 1000	(5)	Albuquerque, N. Mex. San Francisco, Calif.	New Mex. Brdcstg. Co. Hearst Radio, Inc.
WFBM		1000	Č(5)	Indianapolis, Ind.	Ind. Power & Light Co.
WNAC		1000	R(5)	Boston, Mass.	Yankee Network, Inc.
XEAZ XEG	z z	200 250		Zacatecas, Zac. Monterrey, N. L.	Rodolfo Junco de la Vega
1240	kcs.	(241.8	m.)		
CJCB	a	1000	F	Sydney, N. S.	Eastern Brdcasters, Lt.
СМНВ	z	50		Sydney, N. S. Sancti Spiritus, Cuba	V. E. Weiss y Cia.
KGCU KLPM	a a	250 250	iXZ	Mandan, N. Dak. Minot, N. Dak.	Mandan Kadio Assn.
KTAT	a	1000	M	Fort Worth, Tex.	John P. Cooley Tarrant Brdcstg. Co.
KTFI	a	1000	N	Fort Worth, Tex. Twin Falls, Idaho San Juan, P. R.	Radio Brdcstg. Corp. Radio Corp. of Puerto Rico.
WKAQ WXYZ	a	1000 1000	В	Detroit, Mich.	King-Trendle Brd. Corp.
XEKL	z	500		Leon, Gto.	Hemmer y Romero
XELA XEME	z z	50 50		Saltillo, Coah. Merida, Yuc.	Enrique Gomez Jerfecto Villmil Cisero
1250	_	(239.9			,
СМКС	a	150	110	Santiago, Cuba	Pinol Batele y Cia.
HRN	¢	50	8811	Tegucigalpa, Hond.	Star-Times Pub. Co.
KFOX KIT	a a	1000 250	MX(.5	Long Beach, Calif. ) Yakima, Wash,	Nichels & Warinner, Inc. Carl E. Haymond
KXOK	z	1000	P	) Yakima, Wash. St. Louis, Mo.	Paul John
WAIR WDSU	a a	250 1000	D B	Winston-Salem, N. C. New Orleans, La.	Radio Station WAIR WDSU, Inc.
WHBI	a	1000	(2.5)	Newark, N. J. New Castle, Pa.	May Radio Brdcstg. Corp.
WKST	z	250	DP	New Castle, Pa.	Keystone Brdcstg, Co. Martin R. OBrien
WMRC		250 1000	DP (2.5)	Aurora, Ill. New York, N. Y.	Wodaam Corp.
WTCN		1000	B(5)	Minneapolis, Minn. Mexico City, D. F.	Minnesota Brdcstg. Corp.
XEAI XEXH	z z	500 250	1417	Mexico City, D. F. San Luis Potosi, S.L.P.	Carmen Gutierrez H. Ayuntamiento S.L.P.
		(238 r	n.)		
CMBD	1	500	2 <b>X</b>	Havana, Cuba	Luiz Perez Carcia
CMC	z	150	2	Havana, Cuba	La Voz del Transporte
KGVO KHSL	<b>2</b> 2	1000 250	C(5)	Missoula, Mont. Chico, Calif.	Mosby's, Inc. Golden Empire Brd. Co.
KOIL KPAC	<b>a</b> a	1000 500	BM(5) D	Omaha, Nebr. Port Arthur, Tex.	Central States Brd. Co. Port Arthur College

KRGV KUOA	a a	1000 5000	MN D	Weslaco, Texas Siloam Springs, Ark.	KRGV, Inc. KUOA, Inc. Arizona Brdcstg. Co., Inc. Miami Valley Brdcstg. Corp.
KVOA	a	1000	21.11	Tucson, Ariz.	Arizona Brdcstg. Co., Inc.
WHIO	a	1000	C(5)	Dayton, Ohio	Miami Valley Brdcstg. Corp.
WNBX WTOC	. a	500 1000	CMJX (	<ol> <li>Springfield, Vt.</li> <li>Savannah, Ga.</li> </ol>	Twin State Brdcstg. Corp. Savannah Brdcst. Corp.
WIOC	а	1000	C	Savannan, Ga.	Savannan Bidest. Corp.
1270	kcs.	(236.1	m.)		
CMHD	ь	250		Caibarien, Cuba	Manuel Alvarez M.
KGCA	a	100	2D	Decorah, Iowa Seattle, Wash.	Charles W. Greeneley
KOL	a	1000	M(5)	Seattle, Wash.	Seattle Brdcstg. Co., Inc.
KVOR KWLC	a	1000	<b>C</b> 2D	Colorado Springs, C. Decorah, Iowa	Out West Brdcstg. Co.
WASH	a a	1 <b>00</b> 500	DNA	Grand Rapids, Mich.	Luther College King-Trendle Brdcstg. Corp.
WFBR	a	500	R(1)	Baltimore, Md.	Baltimore Radio Show, Inc.
WJDX		1000	$\hat{R}(5)$	Jackson, Miss.	Lamar Life Ins. Co.
WOOD		500	Na	Grand Rapids, Mich.	King-Trendle Brdcstg. Corp. Gobierno del E. de Ver.
XEBB	a	250		Jalapa, Ver.	Gobierno del E. de Ver.
XEXE	z	17	2.11	Texcoco, D. F.	H. Ayuntamiento de Tex.
1280	kcs.	(234.2	m.)		
СМКО	z	200		Holguin, Cuba	Manuel Angulo Farran
KFBB	a	1000	C(5)	Great Falls Mont	Buttrey Brdcstg. Co.
KLS	a	250		Oakland, Calif. Camden, N. J.	Warner Brothers
WCAM		500	1	Camden, N. J.	City of Camden
WCAP WDOD	a	500 1000	1 C(5)	Asbury Park, N. J. Chattanooga, Tenn.	Radio Industries Broadcast Co.
WIBA	a a	1000	N(5)	Madison, Wis.	WDOD Brdest. Corp.
WORC		500	C C	Worcester, Mass.	Badger Brdcstg, Co., Inc. Alf. Frank Kleindienst
WRR	a	500	$\overline{\mathbf{M}}$	Dallas, Texas	City of Dallas
WTNJ	а	500	1	Trenton, N. J.	City of Dallas WOAX, Inc. Alfonso Traslosheros Avalos
XEMX	z	100	*	Mexico City, D. F.	Alfonso Traslosheros Avalos
1290	kcs.	(232.4	m.)		
<b>1290</b>		(232.4	•	Havana Cuba	Torge Cassis Servi
CMCU	а	150	m.)	Havana, Cuba	Jorge Garcia Serra
				Camaguey, Cuba	Feliciano Isaac
CMCU CMJK KDYL KLCN	a a	150 200 1000 100	RX D	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich
CMCU CMJK KDYL KLCN KTRH	a a a a a	150 200 1000 100 100	RX D C(5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co.
CMCU CMJK KDYL KLCN KTRH WEBC	a a a a a	150 200 1000 100 1000 1000	RX D C(5) N(5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co.
CMCU CMJK KDYL KLCN KTRH WEBC WJAS	a a a a a a	150 200 1000 100 1000 1000 1000	RX D C(5) N(5) C(5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House
CMCU CMJK KDYL KLCN KTRH WEBC	a a a a a a a	150 200 1000 1000 1000 1000 1000	RX D C(5) N(5) C(5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp.
CMCU CMJK KDYL KLCN KTRH WEBC WJAS WNBZ WNBZ	a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000	RX D C(5) N(5) C(5) D (2.5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House
CMCU CMJK KDYL KLCN KTRH WEBC WJAS WNBZ WNEL	a a a a a a a a	150 200 1000 1000 1000 1000 1000	RX D C(5) N(5) C(5) D (2.5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp.
CMCU CMJK KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMHX	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R.
CMCU CMJK KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMHX KALE	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 (230.6	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittshurgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE Inc.
CMCU CMJK KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMHX KALE KFAC	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles Calif	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE Inc.
CMCU CMJK KDYI. KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMHX KALE KFAC KFH	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles Calif	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE Inc.
CMCU CMJK KDYL KLCN KTRH WEBC WJAS WNBZ WNEL 1300 CMHX KALE KFAC	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles Calif	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n.
CMCU CMJK KDYL KLCN KTRH WEBC WIAS WNBZ WNEL 1300 CMHX KALE KFAC WEVD WFAB	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)  M C(5) 1	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Debs Memorial Radio Fund, Inc.
CMCU CMJK KDYL KLCN KTRH WEBS WNBZ WNBZ WNEL 1300 CMHX KALE KFAC KFH WBBR WEVD WFAB WFBV	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) M.) M C(5) 1 1 1 N(5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co.
CMCU CMJK KDYIL KLCN KTRH WEBC WIAS WNBZ WNEL 1300 CMHX KALE KFAC KFH WBBR WFAB WFAB WFAB	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)  M C(5) 1	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute
CMCU CMJK KDYL KLCN KTRH WEBS WNBZ WNBZ WNEL 1300 CMHX KALE KFAC KFH WBBR WEVD WFAB WFBV	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) M.) M C(5) 1 1 1 N(5)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co.
CMCU CMJK KDYIL KLCN KTRH WEBC WIAS WNBL 1300 CMHE KFAC KFAC KFAC WBBR WEVD WFAB WFBV WHAZ WHBL	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.) C(5) 1 1 1 N(5) 1	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute
CMCU CMJK KDYIL KLCN KTRH WEBC WJAS WNBZ WNBZ WNEL 1300 CMHX KALE KFAC KFAC WEVD WFAB WFAB WFAB WFAB WHAZ WHAZ WHBL	kcs.	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.) C(5) 1 1 1 N(5) 1	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y. Shebovgan, Wis.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.
CMCU CMJK KDYIL KLCN KTRH WEBC WNBZ WNEL 1300 CMHX KALE KFAC KFH WBBR WEVD WFAB WFBV WHAZ WHBL	kcs.	150 200 1000 1000 1000 1000 1000 1000 10	m.)  C(5)  M.(2.5)  M.(2.5)  M.(3)  C(5)  M.(2.5)  M.(3)  C(5)  M.(4)  M.(5)  1  1  1  N(5)  1   m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittshurgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Oreenville, S. C. Troy, N. Y. Shebovgan, Wis.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.
CMCU CMJK KDYIL KLCN KTRH WEBC WJAS WNBZ WNBL 1300 CMHX KALE KFAC KFH WBBVD WFAB WFBV WHAZ WHBL	kcs.  aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y. Shebovgan, Wis.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.  J. A. Gesner Northern Brdcstg. Co.
CMCU CMJK KDYIL KLCN KTRH WEBC WNBZ WNBZ WNBZ WNBZ WHAZ WHBL 1300 CMHX KALE KFAC KFH WBBR WEVD WHAZ WHBL CHCK CJKL CJKL CJKL CJKL CJKL	kcs.	150 200 1000 1000 1000 1000 1000 1000 10	RX D (5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y. Shebovgan, Wis.  Charlottetown, P.E.I. North Bay, Ont. Yarmouth, N. S.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.  J. A. Gesner Northern Brdcstg. Co.
CMCU CMJK KDYIL KLCN KTRH WEBC WJAS WNBZ WNBL 1300 CMHX KALE KFAC KFH WBBVD WFAB WFAB WFAB WHAZ WHBL 1310 CHCK CJKL CJLS CKCV KAND	a a a a a a a a a a a a a a a a a a a	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y. Shebovgan, Wis.  Charlottetown, P.E.I. North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.  J. A. Gesner Northern Brdcstg. Co. Laurie L. Smith CKCV, Ltd. Navarro Brdcstg. Ass'n.
CMCU CMJK KDYIL KLCN KTRH WEBC WJAS WNBZ WNBZ  1300 CMLK KFAC KFAC KFAC WFBV WHAZ WHBL  1310 CHCK CJKL CJLS CKCV KAND KARM	**************************************	150 200 1000 1000 1000 1000 1000 1000 10	m.)  C(5)  M.(5)  M.(2.5)  M.(2.5)  M.(3)  C(5)  M.(4)  M.(5)  1  1  N(5)  1  FF FD DM C	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y. Shebovgan, Wis.  Charlottetown, P.E.I. North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.  J. A. Gesner Northern Brdcstg. Co. Laurie L. Smith CKCV, Ltd. Navarro Brdcstg. Ass'n. George Harm
CMCU CMJK KDYIL KLCN KTRH WEBC WJAS WNBZ WNEL  1300 CMHX KALE KFAC KFH WBBR WEVD WFAB WFBV WHAZ WHBL  1310 CHCK CJKI CJLS CKCV KAND KARM KBND	**************************************	150 200 1000 1000 1000 1000 1000 1000 10	RX D C(5) N(5) C(5) D (2.5) m.)	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittshurgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. New York, N. Y. Shebovgan, Wis.  Charlottetown, P.E.I. North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.  J. A. Gesner Northern Brdcstg. Co. Laurie L. Smith CKCV, Ltd. Navarro Brdcstg. Ass'n. George Harm The Bend Bulletin
CMCU CMJK KDYIL KLCN KTRH WEBC WJAS WNBZ WNBZ  1300 CMLK KFAC KFAC KFAC WFBV WHAZ WHBL  1310 CHCK CJKL CJLS CKCV KAND KARM	**************************************	150 200 1000 1000 1000 1000 1000 1000 10	m.)  C(5)  M.(5)  M.(2.5)  M.(2.5)  M.(3)  C(5)  M.(4)  M.(5)  1  1  N(5)  1  FF FD DM C	Camaguey, Cuba Salt Lake City, Utah Blytheville, Ark. Houston, Texas Duluth, Minn. Pittsburgh, Pa. Saranac Lake, N. Y. San Juan, P. R.  Cienfuegos, Cuba Portland, Ore. Los Angeles, Calif. Wichita, Kans. Brooklyn, N. Y. New York, N. Y. New York, N. Y. Greenville, S. C. Troy, N. Y. Shebovgan, Wis.  Charlottetown, P.E.I. North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif.	Feliciano Isaac Intermountain Brd. Corp. C. L. Lintzenich KTRH Brdcstg. Co. Head of the Lakes Brdcstg. Co. Pittsburgh Radio Supply House Up-State Brdcstg. Corp. Juan Piza  J. Garcia R. KALE, Inc. Los Angeles Brdcstg. Co. Radio Station WFH Co. People's Pulpit Ass'n. Debs Memorial Radio Fund, Inc. Fifth Ave. Brdcstg. Corp. Greenville News-Piedmont Co. Fensselaer Polytechnic Institute Press Publishing Co.  J. A. Gesner Northern Brdcstg. Co. Laurie L. Smith CKCV, Ltd. Navarro Brdcstg. Ass'n. George Harm

KCRJ	а	100	(.25)	Jerome, Ariz.	Charles C. Robinson
KFPL	Ь	100	(.25)	Dublin, Texas	KFPL Brdcstg. Station
KFYO KGEZ	a	100		Lubbock, Texas	Plains Radio Brdcstg. Co.
KGEZ	a a	100 100		Kalispell, Mont. Kearney, Nebr. Watsonville, Calif.	Donald C. Treloar
KHUB	a	250	D	Watsopville Calif	Central Nebr. Brdcstg. Corp.
KINY	a	100	XZ	Juneau, Alaska	John P. Scripps Edwin A. Kraft
KOCY	a	100	(.25)	Oklahoma City, Okla.	Plaza Court Brdc. Co.
KOME	z	250	ĎΡ	Tulsa, Okla.	Harry Schwartz
KPDN	a	100	D	Pampa, Texas Lufkin, Texas	Harry Schwartz R. C. Hoiles
KRBA	z	100	D	Lufkin, Texas	Red Lands Brdcstg. Ass'n.
KRMD	a	100	(.25)	Shreveport, La.	KRMD, Inc.
KROC KrQ <b>A</b>	a a	100 1 <b>0</b> 0	(.25)	Rochster, Minn.	Southern Minn. Brdcstg. Co.
KRRV	z	250	D	Santa Fe, N. Mex. Sherman, Texas	L. Laurence Martin
KSRO	a	100	(.25)	Santa Rosa, Calif.	Red River Valley Corp. Press-Democrat Pub. Co.
KSUB	a	100		Santa Rosa, Calif. Cedar City, Utah	Johnson & Perry
KTSM	a	100	N(.25)	El Paso, Texas	Tri-State Brdcstg. Co.
KVIC	z	100	P	El Paso, Texas Victoria, Texas	
KVOL	a	100	1 1111	Lafayette, La.	Evangeline Brdcstg. Co.
KVOX	z	100	(.25)	Moorhead, Minn.	KVOX Brdcstg. Co.
KWOC KWOS	z z	100 100	D D	Poplar Bluff, Mo.	Fields McCarthy Co.
KXRO	a	100		Jefferson City, Mo. Aberdeen, Wash.	Tribune Printing Co.
WAMBI		100	(.25)	Laurel, Miss.	KXRO, Inc. New Laurel Radio Station
WBEO	a	100	Ď	Marquette, Mich.	Lake Superior Brdcstg. Co.
WBOW	a	100	N(.25)	Terre Haute, Ind.	Lake Superior Brdcstg. Co. Banks of the Wabash, Inc.
WBRE	a	100		Wilkes Barre, Pa.	Louis G. Baitimore
WBRK WCLS	z	100 100		Pittsfield, Mass.	Voice of the Berkshires WCLS, Inc.
WCMI	a a	100	L (.25)	oliet, Ill.	WCLS, Inc.
WDAH	a	100	S(.25)	El Paso Tev	Ashland Brdestg, Co.
WEBR	a	100	B(.25)	Buffalo, N. Y.	Tri-State Brdcstg. Co. WEBR, Inc.
WEMP	а	100	D	Ashland, Ky. El Paso, Tex. Buffalo, N. Y. Milwaukee, Wis. Royal Oak, Mich.	Milwaukee, Brdcstg. Co.
WEXL	a	50		Royal Oak, Mich.	Milwaukee, Brdcstg. Co. Royal Oak Brdcstg. Co.
WFBG WFDF	a	100 100	3	rittoona, ra.	Gable Brdcstg. Co.
WGAU	a z	100	P(.25)	Flint, Mich. Athens, Ga.	Flint Brdcstg. Co. J. K. Patrick & Co.
WGH	a	100	(.25)	Newport News, Va.	Hampton Roads Brdcstg. Corp.
WGTM	z	100	Ď	Wilson, N. C.	WGTM, Inc.
WHAT	a	100	4	Philadelphia, Pa.	Independence Brdcstg. Co.
WJAC	a	100	3(.25)	ohnstown, Pa.	WJAC, Inc.
WLAK WLBC	z	100	( 25)	Lakeland, Fla.	Lake Region Brdc. Co.
WLNH	a a	100 100	(.25) M	Muncie, Ind.	Donald A. Burton
WMBO	a	100	141	Laconia, N. H. Auburn, N. Y. Plattsburgh, N. Y.	Northern Brdcstg. Co. WMBO, Inc.
WMFF	a	100	B(.25)	Plattsburgh, N. Y.	Plattsburg Brdcstg. Corp.
WNBH	a	100	M(.25)	New Bedford, Mass.	E. Anthony & Sons. Inc.
WOL	a	100	MZ	New Bedford, Mass. Washington, D. C.	American Brdcstg. Co.
WRAW		100		Reading, Pa.	Reading Brdcstg. Co. Stuart Brdcstg. Corp.
WROL WSAJ	a a	100 100	IN(.25)	Knoxville, Tenn.	Grove City College
WSAV	z	100	P	Grove City, Pa. Savannah, Ga.	Arthur Lucas
WSGN	a	100		Birmingham, Ala.	Birmingham News Co.
wsjs	a	100	C	Winston-Salem, N. C.	Piedmont Publishing Co.
WTAL	a	100	(.25)	Tallahassee, Fla.	Fla. Capitol Brdcasters.
WTEL	a	100	4	Philadelphia, Pa.	Foulkrod Radio Eng. Co. Sun Publishing Co., Inc.
WTJS WTRC	a a	100 100	(.25) (.25)	ackson, Tenn. Elkhart, Ind.	Sun Publishing Co., Inc.
XEAG	z	100		Cordoba. Ver	Truth Publishing Co.
XEBO	z	25	5	Cordoba, Ver. Irapuato, Gto. Tampico, Tams Torreon, Coah.	Diodoro Zuniga Alfonso Martinez
XEFW	a	300		Tampico, Tams	Flores y Martinez
XETB	а	125		Torreon, Coah.	Flores y Martinez Arelio G. Zaragoza
XEX	a	125		Monterrev, N. L.	Luis F. Petit Jean
XEXS	z	100	****	Mexico City, D. F.	Dpto. de Salubridad Publica
1320	kcs.	(227.1)	m.)		
CMOX	a	200	2.01	Havana, Cuba	Perez y Chisholm Curtis P. Ritchie
KGHF	a	500	В	Pueblo, Colo.	Curtis P. Ritchie

KGMB	a	1000	CM	Honolulu, Hawaii	Honolulu Brdcstg. Co., Ltd.
KID	a	500	(1)	Idaho Falls, Idaho	KID Brdcstg. Co.
KRNT'	a	1000	Č(5)	Des Moines, Iowa	Iowa Brdcstg. Co.
TGI	å	1000	0())	Des Moines, Iowa Guademala City, uat.	k
WADC	a	1000	C(5)	Akron, Ohio	Allen T. Simmons
WORK	a	1000	N	Akron, Ohio York, Pa. New Orleans, La.	Allen T. Simmons York Brdcstg. Co.
WSMB	a	1000	R(5)	New Orleans, La.	WSMB, Inc.
XEAU	z		Ling	Tijuana, B. Cfa.	
1330	1200	(225.4	m)		
1990	MUS.	(220.4	111.)		153
CMHK	z	250	4.4	Cruces, Cuba	Virgilio Villanueva
KGB	а	1000	M	San Diego, Calif.	Don Lee Brdcstg. Sys.
KMO	a	1000	M	Tacoma, Wash. Corpus Christi, Tex.	KMO, Ins. Gulf Coast Brdcstg. Co.
KRIS	z	500	NM	Corpus Christi, Tex.	Guir Coast Bracsig. Co.
KSCJ	a	1000	C(5)	Sioux City, Iowa Hartford, Conn.	Sioux City Journal
WDRC	a	1000 1000	C	Cincipati Ohio	WDRC, Inc. Crosley Radio Corp. WHBY, Inc.
WSAI	a	1000	MIN())	Cincinnati, Ohio reen Bay, Wis.	WHRY Inc
WTAQ	a	1000	C	reen bay, wis.	Wildi, inc.
4040	_	4000 F			
1340	kcs.	<b>(22</b> 3.7)	m.)		
CMAB	z	100		Pinar del Rio, Cuba	Francisco Martinez
CMJW	z	300			La Voz del Pueblo
KDTH	z	500	ADP	Camaguey, Cuba Dubuque, Iowa	Telegraph Herald Co.
KGIR	a	1000	N(5)	Butte, Mont.	KGIR, Inc.
KGNO	a	250		Dodge City, Kans.	Dodge City Brdcstg. Co.
WCOA	a	500	C(1)	Pensacola, Fla.	Pensacola Brdcstg. Co.
WFEA	а	500	MN(1)	Manchester, N. H.	N. H. Brdcstg. Co.
WFNC	z	250	DP	Fayetteville, N. C.	Cumberland Brdcstg. Co.
WSPD	a	1000	B(5)	Toledo, Ohio	The Fort Industry Co.
XEAP	Z	50		Obregon, Son.	Emilio Manzanilla Maria Remedios Delgado
XEBS	Z	200		Mexico City, D. F. Villa Acuna, Coah.	Vicente Hernandez
XEDH	Z 7.	200 350		alapa, Ver.	Gobierno del E. De Ver.
XEXD	Z	9,00		alapa, voi.	
				• '	
1250	leag	(222 1	m )		
1350	kcs.	(222.1	m.)		_
CMCA	а	(222.1	m.)	Havana, Cuba	Tester y Gonzales
CMCA CMKW	a z	450		Santiago, Cuba	Tester y Gonzales Claudio Alvarez Soriano
CMCA CMKW KIDO	a z a	450 1000	N(2.5)	Santiago, Cuba Boise, Idaho	Boise Brdcstg. Station
CMCA CMKW KIDO KWK	a z a a	450 1000 1000	N(2.5) XBM(5	Santiago, Cuba Boise, Idaho 5) St. Louis, Mo.	Boise Brdestg. Station Thomas Patrick, Inc.
CMCA CMKW KIDO KWK WAWZ	a z a a	450 1000 1000 500	N(2.5) XBM(5	Santiago, Cuba Boise, Idaho 5) St. Louis, Mo. Zarephath, N.	Boise Brdcstg. Station Thomas Patrick, Inc. Pillar of Fire
CMCA CMKW KIDO KWK WAWZ WBNX	a z a a a a	450 1000 1000 500 1000	N(2.5) XBM(5 1(1)	Santiago, Cuba Boise, Idaho 6) St. Louis, Mo. Zarephath, N New York, N. Y.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ	a z a a a a	450 1000 1000 500	N(2.5) XBM(5	Santiago, Cuba Boise, Idaho 5) St. Louis, Mo. Zarephath, N.	Boise Brdcstg. Station Thomas Patrick, Inc. Pillar of Fire
CMCA CMKW KIDO KWK WAWZ WBNX WMBO	a z a a a a	450 1000 1000 500 1000 500	N(2.5) XBM(5 1(1) 1	Santiago, Cuba Boise, Idaho 6) St. Louis, Mo. Zarephath, N New York, N. Y.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ WBNX	a z a a a a	450 1000 1000 500 1000	N(2.5) XBM(5 1(1) 1	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO	a z a a a a	450 1000 1000 500 1000 500	N(2.5) XBM(5 1(1) 1 R	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO	a z a a a a kcs.	450 1000 1000 500 1000 500 (220.4	N(2.5) XBM(5 1(1) 1 R	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO	a z a a a a kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000	N(2.5) XBM(5 1(1) 1 R m.)	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC	a z a a a a a kcs.	450  1000 1000 500 1000 500 (220.4 200 250 1000 500	N(2.5) XBM(5 1(1) 1 R m.) M	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO CMJH KCRC KGER WCSC WFBL	kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500	M(2.5) XBM(5 1(1) 1 R  m.) M M C(5)	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC KGER WCSC WFBL WGES	a z a a a a a b kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500	M(2.5) XBM(5 1(1) 1 R m.) M N(1) C(5) 1(1)	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC KGER WCSC WFBL WGES WQBC	kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500	M(2.5) XBM(5 1(1) 1 R m.) M N(1) C(5) 1(1) D	Santiago, Cuba Boise, Idaho ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC KGER WCSC WFBL WGES	a z a a a a a b kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500	M(2.5) XBM(5 1(1) 1 R m.) M N(1) C(5) 1(1)	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO CMJH KCRC KGER WFBL WGES WYBS	kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500	M(2.5) XBM(5 1(1) 1 R m.) M  N(1) C(5) 1(1) D	Santiago, Cuba Boise, Idaho ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC KGER WCSC WFBL WGES WQBC	kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500	M(2.5) XBM(5 1(1) 1 R m.) M  N(1) C(5) 1(1) D	Santiago, Cuba Boise, Idaho ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WMBC 1360 CMJH KCRC KGER WCSE WGES WOBS WSBT	kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8	M(2.5) XBM(5 1(1) 1 R m.) M  N(1) C(5) 1(1) D	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune
CMCA CMKW KIDO KWK WAWZ WBNX WMBC 1360 CMJH KCRC KGER WCSC WFBL WGES WQBC WSBT 1370 CFAR	kcs.  kcs.  kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8 100	M(2.5) XBM(5 1(1) 1 R m.) M  N(1) C(5) 1(1) D	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Itd.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC KGER WCSC WFBL WGES WQBC WSBT	kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8	M(2.5) XBM(5 1(1) 1 R m.) M M C(5) 1(1) D 1 m.)	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Itd.
CMCA CMKW KIDO KWK WAWZ WBNX WBNX WBNX WBNX WGES WOBE WSBT 1370 CFAR CKCW CMGE	kcs.  kcs.  kcs.	450 1000 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8 100 100	M(2.5) XBM(5 1(1) 1 R m.) M M C(5) 1(1) D 1 m.)	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria. Ore.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Itd.
CMCA CMKW KIDO KWK WAWZ WBNSC WAWZ WBO CMJH KCRC KGER WCSC WFBL WGES WGBC WSBT 1370 CFAR CKCW CMGE KAST	kcs.  kcs.  kcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8 100 100 200	M(2.5) XBM(5 1(1) 1 R  m.)  M N(1) C(5) 1(1) D 1  m.) F DXZ	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria. Ore.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KCMO Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ WBNX WBNX WBNX WBNX WGES WOBE WSBT 1370 CFAR CKCW CMGE	kcs. baaaaaaakcs.	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8	M(2.5) XBM(5 1(1) 1 R  m.) M N(1) C(5) 1(1) D 1  m.) F DXZ	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KCMO Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ WBNX WMBO 1360 CMJH KCRC KGER WCSC WFBL WGES WQBC WSBT 1370 CFAR CKCW CMGE KAST KCMO KEEN KEEN	kcs. baaaaaaakcs. kcs.	450 1000 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8 100 100 100 100 100 100 100 10	M(2.5) XBM(5 1(1) 1 R  m.) M N(1) C(5) 1(1) D 1  m.) F DXZ	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash. El Dorado, Ark.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KCMO Brdestg. Co. KVL, Inc. Radio Enterprises, Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WBNX WBNX WBNX WGES WGES WGES WSBT 1370 CFAR CKCW CMGE KAST KCMO KEEN KEEN KEEN	kcs.  kcs.  kcs.	450 1000 1000 500 1000 500 (220.4 2000 250 1000 500 1000 500 1000 500 (218.8	M(2.5) XBM(5 1(1) 1 R m.) M M(1) C(5) 1(1) D 1 m.) F DXZ	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash. El Dorado, Ark. Bakersfield, Calif.	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KVL, Inc. Radio Enterprises, Inc. McClatchey Brdestg. Co.
CMCA CMKW KIDO KWK WAWZ WBNX WMBC 1360 CMJH KCRC KGER WCSC WFBL WGES WGBC WSBT 1370 CFAR CKCW CMGE KAST KCMO KEEN KELD KERN KFSQ	kcs.  kcs.  kcs.  kcs.  z  a  a  a  a  a  a  a  a  a  a  a  a	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8 100 100 100 100 100 100 100 100 100 10	M(2.5) XBM(5 1(1) 1 R  m.) M N(1) C(5) 1(1) D 1  m.) F DXZ N D	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash. El Dorado, Ark. Bakersfield, Calif. Boone, Iowa	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KCMO Brdestg. Co. KVL, Inc. Radio Enterprises, Inc. McClatchey Brdestg. Co. Boone Biblical College
CMCA CMKW KIDO KWK WAWZ WBNX WBNX WBNX WBNX WGSC WFBL WGES WGSC WFBL WGES WSBT 1370 CFAR CKCW CMGE KAST KCMO KEEN KEEN KEEN KEEN KEEN KEEN KEEN KEE	kcs.  kcs.  kcs.  kcs.  zaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	450 1000 1000 500 1000 500  (220.4 200 250 1000 500 1000 500 1000 500 (218.8 100 100 100 100 100 100 100 100 100 10	M(2.5) XBM(5 1(1) 1 R  m.)  M N(1) C(5) 1(1) D 1  m.)  N D M(.25)	Santiago, Cuba Boise, Idaho  St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash. El Dorado, Ark. Bakersfield, Calif. Boone, Iowa Fort Worth, Texas	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KCMO Brdestg. Co. KVL, Inc. Radio Enterprises, Inc. McClatchey Brdestg. Co. Boone Biblical College Ft. Worth Broadcasters, Inc.
CMCA CMKW KIDO KWK WAWZ WBNX WMBC 1360 CMJH KCRC KGER WCSC WFBL WGES WGBC WSBT 1370 CFAR CKCW CMGE KAST KCMO KEEN KELD KERN KFSQ	kcs.  kcs.  kcs.  kcs.  z  a  a  a  a  a  a  a  a  a  a  a  a	450 1000 1000 500 1000 500 (220.4 200 250 1000 500 1000 500 (218.8 100 100 100 100 100 100 100 100 100 10	M(2.5) XBM(5 1(1) 1 R  m.) M N(1) C(5) 1(1) D 1  m.) F DXZ N D	Santiago, Cuba Boise, Idaho  ) St. Louis, Mo. Zarephath, N. New York, N. Y. Richmond, Va.  Ciego de Avila, Cuba Enid, Okla. Long Beach, Calif. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.  Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash. El Dorado, Ark. Bakersfield, Calif. Boone, Iowa	Boise Brdestg. Station Thomas Patrick, Inc. Pillar of Fire WBNX Brdestg. Co. Havens & Martin  Luis Marauri H. Enid Radiophone Co. Consolidated Brdestg. Corp. S. C. Brdestg. Co. Onondaga Radio Brdestg. Corp. Oak Leaves Brdestg. Station, Inc. Delta Brdestg. Co., Inc. South Bend Tribune  Arctic Radio Corp. Moncton Brdestg. Co., Ltd. Genaro Sebater Astoria Brdestg. Co. KCMO Brdestg. Co. KVL, Inc. Radio Enterprises, Inc. McClatchey Brdestg. Co. Boone Biblical College

LCC AD					
		100	C( 25)	Torres A.t.	T 16 0 1 0
KGAR	a	100	C(.25)	Tucson, Ariz. Roswell, N. Mex.	Tucson Motor Service Co.
KGFL	a	100	4	Roswell, N. Mex.	KGFL, Inc.
KGKL	a	100	(.25)	San Annala Tawas	
				San Angelo, Texas Clovis, N. Mex.	KGKL, Inc.
KICA	a	100	4	Clovis, N. Mex.	Western Broadcasters, Inc.
KIUP	a	100		Duranco Colo	San Ivan Badasta Ca
	_			Denango, Colo.	San Juan Brdcstg. Co.
KLUF	a	100	M	Durango, Colo. alveston, Tex.	KLUF Brdcstg. Co., Inc. W. W. McAllister
KMAC	a	100	5(.25)	San Antonio, Tex. Rapid City, S. Dak. La Junta, Colo.	W/ W/ M-Alliese
KOND				San Antonio, Tex.	W. W. McAilister
конв	a	100	(.25)	Rapid City, S. Dak.	Black Hills Broadcast Co.
KOKO	a	100		La Junta Colo	Courth-oat D. Jost C.
				La Junta, COIO.	Southwest Bracktg. Co.
KONO	a	100	5	San Antonio, Tex.	Southwest Brdcstg. Co. Mission Brdcstg. Co.
KRE	a	100	(.25)	Berkeley Calif	Control Calif Brandons Inc
			(.2)	Berkeley, Calif. 3Everett, Wash.	Central Calif. Broadcasters, Inc.
KRKO	a	50		3Everett, Wash.	Lee Mudgett
KRMC	2.	100	(.25)	Jamestown, N. Dak.	Roberts McNah Co
	_		1.277	Jamestown, 14. Dak.	Roberts McNab Co. Oregon Radio, Inc.
KSLM	a	100	MXZ	Salem, Ore. Temple, Texas	Oregon Radio, Inc.
KTEM	a	250	DM	Temple Tevas	Bell Brdcstg. Co.
KTOK				Olt 1	Den Didesig. Co.
KTOK	a	100	MN	Oklahoma City, Okla. Walla Walla, Wash. Great Bend, Kans.	Oklahoma Brdcstg. Co.
KUJ	a	100		Walla Walla Wash	KUJ, Inc.
				Vialia Walla, Wasii.	
KVGB	Z	100		Great Bend, Kans.	Ernest Edward Ruehlen
KVRS	2.	100	P(.25)	Rock Springs, Wyo.	Wyo. Brdcstg. Co.
VIVIVO				Cl. 1 Drings, Wyo.	Wyo. Didesig. Co.
KWYO	a	100	(.25)	Sheridan, Wyo. Albany, N. Y.	Big Horn Brdcstg. Co.
WABY	a	100	N(.25)	Albany N Y	Adirondack Brdcstg. Co.
			5(.2)	D	
WAGF	a	250	D	Dothan, Ala.	Dothan Brdcstg. Co.
WATL	a	100	(.25)	Atlanta Ga	Atlanta Brdcstg. Co.
			()	Clarksburg, W. Va. Buffalo, N. Y.	
WBLK	a	100		Ciarksburg, W. Va.	The Exponent Co.
WBNY	а	100	2(.25)	Buffalo N Y	Roy L. Albertson
WBTM	a		(35)	Danaio, 14. 1.	no i no i no i no
	-	100	(.25)	Danville, Va. Baltimore, Md.	Predmont Bracstg. Corp.
WCBM	a	100	(.25)	Baltimore, Md.	Baltimore Brdcstg. Corp.
WDWS	_			Dhila Jalahia Da	Piedmont Brdcstg. Corp. Baltimore Brdcstg. Corp. WDAS Brdcstg. Station, Inc.
WDWS		100	(.25)	Philadelphia, Pa. Champaign, Ill. Evansville, Ind.	WDA'S brocstg. Station, Inc.
WDAS	a	100	(.25)	Champaign, III.	Champaign News-Gazette, Inc.
WEOA	а			Duancuilla I.J	Europe on the Air Inc
WLOA	a	100	C(.25)	Evansville, Ind.	Evansy, on the Air, Inc. Forrest Brdcstg. Co.
WFOR	a	100	4000	Hattiesburg, Miss.	Forrest Brdcstg, Co.
WGL	а	100	NI( 25)	Fort Wayne Ind	Westinghouse Stations
	_		14(.2)	Fort Wayne, Ind. New Albany, Ind.	Westinghouse Stations
WGRC	a	250	D	New Albany, Ind.	North Side Brd. Corp.
W/HBQ	a	100		Memphis, Tenn. Calumet, Mich. Virginia, Minn.	WHBQ. Inc. Upper Michigan Brdcstg. Co.
			7.11.	Mempins, Tenn.	WIIDQ. IIIC.
WHDF	a	100	(.25)	Calumet, Mich.	Upper Michigan Brdcstg. Co.
WHLB	a	100	C(.25)	Virginia Minn	Head of the Lakes Brdcstg. Co.
			5(.2)	viiginia, iviinii.	Ticaci of the Lakes Didestg. Co.
WHLS	z	250	D	Port Huron, Mich.	Port Huron, Brdcstg. Co.
WIBM	a	100	(.25)	Jackson, Mich.	WIBM, Inc.
WILDIN				Jackson, mich.	
WLLH	a	100	Sy	Lawrence, Mass. 5) Lowell, Mass.	Merrimac Brdcstg. Co.
WLLH	a	100	MSv( 2	(i) Lowell Mass	Merrimac Brdcstg. Co.
WALDE			20, (.2.	77 20 111 233.	El Di l
WMBR	a	100	C(.25)	Jacksonville, Fla.	Fla. Brdcsig. Co.
WMFD	a	100	D	Jacksonville, Fla. Wilmington, N. C.	Fla. Brdcsig. Co. Richard A. Dunlea
					Tamas D. Dans To
WMFO	a	100	D	Decatur, Ala.	James R. Doss, Jr.
WMIN	a	100	(.25)	St. Paul, Minn.	WMIM Brdcstg. Co.
			C(.25)		Tri-City Brdcstg. Co.
WOC	a	100	U(.23)	Davenport, Iowa	
WPAY		100			
	a		- ( /		
TV/DD A	a	100		Portsmouth, Ohio	Vec Bee Corp.
WPRA	z	100 100	(.25)	Portsmouth, Ohio Mayaguez, P. R.	Vec Bee Corp. P. R. Advertising Co.
		100	(.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc.
WRAK	z a	100 100 1 <b>0</b> 0	(.25) (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc.
WRAK Wrdo	z a a	100 100 100 100	(.25) (.25) M	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc.
WRAK Wrdo Wrjn	z a	100 100 100 100 100	(.25) (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine. Wis.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp.
WRAK Wrdo Wrjn	z a a a	100 100 100 100 100	(.25) (.25) M (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine. Wis.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp.
WRAK WRDO WRJN WSAU	z a a a a	100 100 100 100 100 100	(.25) (.25) M (.25) (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine. Wis.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSVS	z a a a a	100 100 100 100 100 100 50	(.25) (.25) M (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp.
WRAK WRDO WRJN WSAU	z a a a a	100 100 100 100 100 100	(.25) (.25) M (.25) (.25) (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSVS XECZ	2 a a a a a z	100 100 100 100 100 100 50	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez
WRAK WRDO WRJN WSAU WSVS XECZ XEI	2 a a a a z a	100 100 100 100 100 100 50 100 125	(.25) (.25) M (.25) (.25) (.25)	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M.
WRAK WRDO WRJN WSAU WSVS XECZ	2 a a a a a z	100 100 100 100 100 100 50	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a z a z	100 100 100 100 100 100 50 100 125 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina
WRAK WRDO WRJN WSAU WSVS XECZ XEI	2 a a a a z a	100 100 100 100 100 100 50 100 125	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine. Wis.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M.
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a z a z	100 100 100 100 100 100 50 100 125 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a z a z	100 100 100 100 100 100 50 100 125 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a z a z	100 100 100 100 100 100 50 100 125 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a z a z	100 100 100 100 100 100 50 100 125 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo N. Y.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a 2 a 2 2	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a 2 a 2 z 2 z 2 z 2 z 2 z 2 z 2	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ	2 a a a a 2 a 2 z 2 z 2 z 2 z 2 z 2 z 2	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) (.25) 2D	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR	2 a a a a 2 a 2 z 2 z 2 z 2 z	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) 2D 	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR CMCX KOH	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) M (.25) (.25) 2D 	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR	2 a a a a 2 a 2 z 2 z 2 z 2 z	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) (.25) (.25) 2D 	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCX KOH KQV	2 a a a a a a z a z a z z a z a a a a a	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) (.25) (.25) 2D 	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta. Maine Racine, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co.
WRAK WRDO WRJN WSAU WSVS XECZ XELZ XELZ CMCR CMCX KOH KQV WALA	2 a a a a a a a z a z a z z a z a a a a	100 100 100 100 100 100 100 100 125 100 100	(.25) (.25) M (.25) (.25) (.25) 2D 	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta. Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile. Ala.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRADO, Inc. Racine Brdestg. Corp. Northern Brdestg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdestg. Co. Pape Brdestg. Co.
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCX KOH KQV	2 a a a a a a z a z a z z a z a a a a a	100 100 100 100 100 100 50 100 125 100 100	(.25) (.25) M (.25) (.25) (.25) 2D 	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta. Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile. Ala.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRADO, Inc. Racine Brdestg. Corp. Northern Brdestg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdestg. Co. Pape Brdestg. Co.
WRAK WRDO WRJN WSAU WSVS XECI XEI XELZ CMCR CMCX KOH KQV WALA WKBH	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 100 100 125 100 100 150 150 500 500 500	(.25) (.25) M (.25) M (.25) (.25) 2D  	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc.
WRAK WRDO WRJN WSAU WSAU WSAU XECZ XEI XELZ  CMCR CMCX KOH KQV WALA WKBH WNBC	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 50 100 125 100 100 150 500 500 500 1000 250	(.25) (.25) M (.25) M (.25) 2D  	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSVS XECI XEI XELZ CMCR CMCX KOH KQV WALA WKBH	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 100 100 125 100 100 150 150 500 500 500	(.25) (.25) M (.25) M (.25) (.25) 2D  	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc.
WRAK WRDO WRJN WSAU WSAU WSAU XECZ XEI XELZ  CMCR CMCX KOH KQV WALA WKBH WNBC	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 50 100 125 100 100 150 500 500 500 1000 250	(.25) (.25) M (.25) M (.25) 2D  	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR KQV WALA WKBH WNBC	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 100 125 100 150 150 500 500 250 200	(.25) (.25) M (.25) (.25) (.25) 2D  2 C 1C C(1) C(1) DX 1CLX	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR KQV WALA WKBH WNBC	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 100 125 100 150 150 500 500 250 200	(.25) (.25) M (.25) (.25) (.25) 2D  2 C 1C C(1) C(1) DX 1CLX	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSAU WSAU XECZ XEI XELZ  CMCR CMCX KOH KQV WALA WKBH WNBC	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 50 100 125 100 100 150 500 500 500 250 200	(.25) (.25) M (.25) M (.25) (.25) 2D  2 C 1C CC(1) CC(1) CC(1) M 1CLX	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp.
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR CMCX KOH KQV WALA WKBH WNBC WSMK	z a a a a z z z z z a a a a a a a a a a	100 100 100 100 100 100 50 100 125 100 100 150 500 500 500 250 200	(.25) (.25) M (.25) M (.25) (.25) 2D  2 C 1C CC(1) CC(1) CC(1) M 1CLX	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta. Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn. Dayton, Ohio	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp. WEMK, Inc.
WRAK WRDO WRJN WSAU WSVS XECZ XEI XELZ CMCR CMCR KQV WALA WKBH WNBC	2 a a a a a a a a a a a a a a a a a a a	100 100 100 100 100 100 100 125 100 150 150 500 500 250 200	(.25) (.25) M (.25) (.25) (.25) 2D  2 C 1C C(1) C(1) DX 1CLX	Portsmouth, Ohio Mayaguez, P. R. Williamsport, Pa. Augusta, Maine Racine, Wis. Wausau, Wis. Buffalo, N. Y. San Luis Potosi, S.L.P. Morelia, Mich. Mexico City, D. F. Owen Sound, Ont.  Havana, Cuba Havana, Cuba Havana, Cuba Reno, Nev. Pittsburgh, Pa. Mobile, Ala. La Crosse, Wis. New Britain, Conn.	Vec Bee Corp. P. R. Advertising Co. WRAK, Inc. WRDO, Inc. Racine Brdcstg. Corp. Northern Brdcstg. Co. Seneca Vocational High School Zeferino Z. Jimenez Carlos Gutierrez M. Maria Gardena de Zetina Owen Sound Sun-Times  La Traviata La Onda Popular The Bee, Inc. KQV Brdcstg. Co. Pape Brdcstg. Co. WKBH, Inc. State Brdcstg. Corp.

CMJC KABR KLRA KOY KRLC WHK WQDM	z a a a a a	150 500 1000 1000 250 1000	(1) C(5) C BM(.25	Camaguey, Cuba Aberdeen, S. Dak. Little Rock, Ark. Phoenix, Ariz. Lewiston, Idaho ) Cleveland, Ohio St. Albans, Vt.	Miguel Guillen Perez Aberdeen Broadcast Co. Ark. Brdestg. Co. Salt River Val. Brdc. Co. H. E. Studebaker Radio Air Service Corp. Regan and Bostwick
1400	kcs.	(214.2	m.)		
GMGC	a	150		Matanzas, Cuba	Oscar Mechoso
CMKR	z	100	CM	Santiago, Cuba Hilo, Hawaii	Jaime Nadal Honolulu Brdcstg. Co., Itd.
KHBC KLO	a a	250 500	В	Ogden, Utah	Interstate Brdcstg. Corp.
KTUL	a	1000	C(5)	Tulsa, Okla.	Tulsa Brdcstg. Co., Inc. Partido Liberal Progresista
TGX Ward	d	500	2	Guatemala City, Guat. Brooklyn, N. Y.	U. S. Brdcstg. Corp.
WBBC	a a	500	2	P Brooklyn	Brooklyn Brdcstg. Corp.
WEGL	z	500	2(1)	Brooklyn, N. Y. Olean, N. Y.	Brooklyn Daily Eagle
WHDL Wire	a a	250 1000	MR(5)	Indianapolis, Ind.	WHDL, Inc. Indianapolis Brdcstg. Inc.
WLTH	a	500	2	Brooklyn, N. Y. Brooklyn, N. Y.	Voice of Brooklyn
WCFW	a	500	2	Brooklyn, N. Y.	Paramount Brdcstg. Co.
1410	kcs.	(212.6	m.)		
CKFC	а	50	5	Vancouver, B. C. Vancouver, B. C.	Standard Brdcstg. Sys. British Columbia Brdcstg. Sys.
CKMO CMCQ	a a	100 5000	5	Havana, Cuba	La Voz de Cuba
KFJM	a	500	(1)	Havana, Cuba Grand Forks, N. Dak.	La Voz de Cuba University of N. Dak. Plains Radio Brdc. Co.
KGNC KMED	a	1000 250	MN(2.5	i) Amarillo, Texas Medford, Ore.	Plains Radio Brdc. Co. Mrs. W. J. Cirgin
WAAB	c a	500	M(1)	Boston, Mass.	Yankee Network, Inc. Bay Brdcstg. Co., Inc.
WBCM		500	(1)	Bay City, Mich. Bluefield, W. Va.	Bay Brdcstg. Co., Inc.
WHIS	a	500	(1)	Bluefield, W. Va.	Daily Telegraph Ptg. Co.
			(1)	Rockford III	Anckined Broadcasters Inc
WROK WSFA	а <b>а</b>	500 500	(1) C(1)	Rockford, Ill. Montgomery, Ala.	Aockford Broadcasters, Inc. Montgomery Brdcstg. Co.
WSFA	a	500	C(1)	Montgomery, Ala.	
WSFA 1420	a		m.)	Rockford, III. Montgomery, Ala.  Three Rivers, P. Q.	Montgomery Brdcstg. Co.  Le Nouvelliste
WSFA  1420 CHLN CKCA	kcs.	500 (211.1 100 100	m.)	Three Rivers, P. Q. Kenora, Ont.	Montgomery Brdcstg. Co.  Le Nouvelliste
WSFA  1420 CHLN CKCA CKGB	kcs.	500 (211.1 100 100 100	m.) F	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont.	Montgomery Brdcstg. Co.  Le Nouvelliste
WSFA  1420 CHLN CKCA CKGB KABC KATE	kcs.	500 (211.1  100 100 100 100 250	C(1) m.)  F M(.25)	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co.
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS	kcs.  z z a a a a	500 (211.1  100 100 100 100 250 100	C(1) m.) F M(.25) D 4	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC	kcs.  z z a a a a a	500 (211.1  100 100 100 100 250 100 100	C(1) m.) F M(.25) D 4	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KDNT KEUB	kcs.  z z a a a a z a	500 (211.1 100 100 100 250 100 100 100 100 100	C(1) m.) F M(.25) D 4 M(.25) D	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co.
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KDNT KEUB KFAM	kcs.  z z a a a a z a z a	500 (211.1  100 100 100 250 100 100 100 100 100 100	C(1) m.) F M(.25) D 4 M(.25)	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co.
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KDNT KEUB KFAM KFIZ	kcs.  z z a a a a z a	500 (211.1 100 100 100 250 100 100 100 100 100	C(1) m.) F M(.25) D 4 M(.25) D (.25)	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co.
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KDNT KEUB KFAM KFIZ KGFF KGIW	a kcs. z z a a a a z z a a a a a a a a a a a	500 (211.1  100 100 100 100 250 100 100 100 100 100 100 100 100 100	C(1) m.) F M(.25) D 4 M(.25) D (.25) M(.25)	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Trimes Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KDNT KEUB KFAM KFIZ KGFF KGIW KGLU	a kcs. z z a a a z a z a a z z	500 (211.1  100 100 100 100 100 100 100 100 10	C(1) m.) F M(.25) D 4 M(.25) D (.25) M(.25)	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co.
WSFA  1420 CHLN CKCAB CKGB KABC KATE KBPS KCMC KDNT KEUB KFAM KFIZ KGFF KGIW KGIU KIDW KIUN	a kcs. z z a a a a z z a a a a a a a a a a a	500 (211.1 100 100 100 100 100 100 100 100 100	C(1) m.) F M(.25) 4 M(.25) (.25) 1 (.25) 1	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnec, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs
WSFA  1420 CHLN CKCBB KABC KATE KBPS KCMC KDNT KEUB KFIZ KGFF KGIU KIDW KIUN KIUN	a kcs. z z a a a a z a a z a a z a z a z a z	500 (211.1  100 100 100 100 100 100 100 100 10	C(1) m.) F M(.25) 4 M(.25) (.25) 1 (.25) 1	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnec, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs
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WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KNNTT KEUB KFIZ KGFF KGIW KIDW KIUN KIUN KNET KORE KRBC	a kcs. z z a a a a z a a a z a a a z a a a a	500 (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)  F M(.25) D (.25) (.25) 1 (.25) 1 P(.25) D M(.25)	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Assn. Eugene Brdcstg. Station Reporter Brdcstg. Co.
WSFA  1420 CHLN CKCAB KABC KATE KBPS KCMC KCDNT KEUB KFAM KFIZ KGFF KGIW KGIU KIDW KIUN KLBM KNET KORE KRBC KRBC	a kcs. z z a a a a z a a a z a a a z a a a z a a a z a a a z a a a a z a a a a z a	500  (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)  F  M(.25)  D  4  M(.25)  1 (.25)  1 (.25)  1 M(.25)  M(.25)  M(.25)  P(.25)	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex. Bozeman, Mont.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Assn. Eugene Brdcstg. Station Repoiter Brdcstg. Station Repoiter Brdcstg. Co. Roberts McNab Co.
WSFA  1420 CHLN CKCBB KABC KATE KBPS KCMC KNDNT KEUB KFAM KFIZ KGFF KGIW KIDW KIUN KILBM KNET KORE KRBC KRBC KRBC KRBC	a kcs. z z a a a a z a a a z a a a z a a a a	500  (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)  F  M(.25)  D  4  M(.25)  1 (.25)  1 (.25)  1 M(.25)  M(.25)  M(.25)  P(.25)	Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex. Bozeman, Mont. Beaumont, Texas Midland, Texas	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Station Reporter Brdcstg. Co. Roberts McNab Co. Beaumont Brdcstg. Assn. Clarence Scharbaur
WSFA  1420 CHLN CKCAB KABC KATE KBPS KCMC KCDNT KEUB KFAM KFIZ KGFF KGIU KIUN KIBM KNET KIUN KIBM KNET KRBC KRBC KRBC KRBC KRBM KRIC KRLC KRLC	a	500  (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)   F  M(.25)  D  4  M(.25)  C.25)  1  (.25)  1  (.25)  1   P(.25)  M  M(.25)  D  M  M(.25)  D  M  M(.25)	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex. Bozeman, Mont. Beaumont, Texas Midland, Texas Midland, Texas San Francisco, Calif.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Assn. Eugene Brdcstg. Station Repoiter Brdcstg. Co. Beaumont Brdcstg. Assn. Clarence Scharbaur Golden Gate Grdcstg. Co.
WSFA  1420 CHLN CKCBB KABC KATE KBPS KCMC KONT KEUB KFAM KFIZ KGFF KGIU KIDW KIUN KIUN KIBM KNET KORE KRBC KRBM KRIC KRBC KRBH KRIC KRLH KSAN	a kcs. z z a a a a z a a a z a a a z a a z a a z a a z a a z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z a a z z z a z z a a z z z a a z z z a z z a z z z a z z z a z z z a z z z a z z z z a z	500  (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)  F  M(.25)  D  4  M(.25)  1 (.25)  1 (.25)  1 M(.25)  M(.25)  M(.25)  P(.25)	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex. Bozeman, Mont. Beaumont, Texas Midland, Texas Midland, Texas Midland, Texas Midland, Texas Sioux City, Iowa	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Station Reporter Brdcstg. Station Reporter Brdcstg. Co. Roberts McNab Co. Beaumont Brdcstg. Assn. Clarence Scharbaur Golden Gate Grdcstg. Co. Sioux City Brdcstg. Co. Dr. A. H. Schermann
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KDNT KEUB KFAM KFIZ KGFF KGIW KGLU KIUN KLBM KNET KORE KRBC KRBC KRBC KRBC KRBC KRBC KRBC KRBC	a	500  (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)   F  M(.25)  D  4  M(.25)  1  (.25)  1  (.25)  1  (.25)  M(.25)  D  M(.25)  D  C(.25)  D  D  D  D  D  D  D  D  D  D  D  D  D	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex. Bozeman, Mont. Beaumont, Texas Midland, Texas Midland, Texas Midland, Texas San Francisco, Calif. Sioux City, Iowa Yuma, Ariz. Atchison, Kans.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Station Reporter Brdcstg. Station Reporter Brdcstg. Co. Roberts McNab Co. Roberts McNab Co. Beaumont Brdcstg. Assn. Clarence Scharbaur Golden Gate Grdcstg. Co. Sioux City Brdcstg. Co. Dr. A. H. Schermann Carl Latenser
WSFA  1420 CHLN CKCA CKGB KABC KATE KBPS KCMC KCNT KEUB KFAM KFIZ KGFW KIUN KIBM KNET KORE KRBC KRBC KRBM KRIC KRIC KRBM KRBM KRIC KRBM KRIC KRBM KRBM KRBM KRBM KRBM KRBM KRBM KRBM	a	500  (211.1  100 100 100 100 100 100 100 100 10	C(1)  m.)   F  M(.25)  D  4  M(.25)   (.25)   M(.25)  1   P(.25)  M(.25)  D  M(.25)  D  C(.25)  D  D  D  D  D  D  D  D  D  D  D  D  D	Montgomery, Ala.  Three Rivers, P. Q. Kenora, Ont. North Bay, Ont. San Antonio, Tex. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Texas Price, Utah St. Cloud, Minn. Fond du Lac, Wis. Shawnee, Okla. Alamosa, Colo. Safford, Ariz. Lamar, Colo. Pecos, Texas La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene, Tex. Bozeman, Mont. Beaumont, Texas Midland, Texas San Francisco, Calif. Sioux City, Iowa Yuma, Ariz.	Montgomery Brdcstg. Co.  Le Nouvelliste Kenora Brdcstg. Co. R. H. Thompson Alamo Brdcstg. Co., Inc. Albert Lea Brdcstg. Co. Benson Polytechnic School KCMC, Inc. Harwell V. Shepard Eastern Utah Brdc. Co. Times Pub. Co. Reporter Printing Co. KGFF Brdcstg. Co. Leonard E. Wilson Gila Brdcstg. Co. Southwest Brdcstg. Co. Hawkins & Tubbs H. Finley & Mrs. Eloise Finley Palestine Brdcstg. Station Reporter Brdcstg. Station Reporter Brdcstg. Co. Roberts McNab Co. Beaumont Brdcstg. Assn. Clarence Scharbaur Golden Gate Grdcstg. Co. Sioux City Brdcstg. Co. Dr. A. H. Schermann

	NOI	RTH AN	MERIC	AN B. C. STATIO	NS BY FREQUENCIE
WAGN	ſ a	100		Presque Isle, Me.	Aroostook Brdcstg. Corp.
WAPO		100	(.25)	Presque Isle, Me. Chattanooga, Tenn.	W. A. Petterson
WAZL		100	2	Hazelton, Pa.	Hazelton Brdcstg. Co.
WCBS	a	100	(.25)	Springfield, III.	WCBS, Inc.
WCHV		100	3(.25)	Charlottesville, Va. Rocky Mount, N. C.	Community Brdcstg. Corp.
		100		Rocky Mount N C	Wm. Avera Wynne
WEED			3(.25)	Rocky Mount, 14. C.	Enquirer News Co
WELL	a	100	DP	Battle Creek, Mich.	Enquirer News Co. Wm. F. Maag, Jr. F. C. Todd
WFMJ	Z	100	DP	Youngstown, Ohio	WIII. T. Maag, Jr.
WGNO	z	100	(.25)P	Gastonia, N. C. Albany, Ga. Cicero, Ill.	r. C. Todd
WGPC	a	100	5855	Albany, Ga.	Americus bracstg. Corp.
WHFC		100	(.25)	Cicero, III.	Americus Brdcstg. Corp. WHFC, Inc. Harry M. Ayers Delaware Brdcstg. Corp.
WHM	A z	100	DP	Anniston, Ala.	Harry M. Ayers
WILM	а	100	2	Wilmington, Del.	Delaware Brdcstg. Corp.
WIMS	a	100		Ironwood, Mich.	WJMS, Inc.
WLAP	a	100	(.25)	Lexington, Ky.	American Brdcstg. Corp.
WLEU		100	B(.25)	Erie, Pa.	Leo J. Omelian
WMAS		100	C(.25)	Springfield, Mass.	WMAS, Inc.
WMBO	a	100	(.25)	Detroit, Mich.	Michigan Brdcstg. Co.
WMBI		100	(.25)	Detroit, Mich. Joplin, Mo.	Joplin Brdestg, Co.
WMB5		250	D.	Uniontown, Pa.	Favette Brdcstg. Corp.
				Daytona Beach, Fla.	Fayette Brdcstg. Corp. W. W. Esch Muscle Shoals Brdcstg. Corp.
WMFJ		100		Manala Chanla City, Ala	Muscle Shoels Bedesta Cost
WMSI		100		Muscle Shoals City, Ala.	D. L. a. b. D. Lasto, Co.
WPAL		100	(.25)	Paducan, Ky.	Paducah Brdcstg. Co.
WPAR		100	Ç.	Paducah, Ky. Parkersburg, W. Va. Ponce, P. R.	Ohio Valley Brdcstg. Corp. Julio M. Canesa
WPRP		100	(.25)	Ponce, P. R.	Julio M. Canesa
WSLI	Z	100	P(.25)	Jackson, Miss.	Stand. Life Ins. Co.
1430	kes	(209.7)	m ١		
1100	HOD.	(200	111.7		
CMIP	a	75		Moron, Cuba	Cesar Canals
CMKZ	z	125		Palm Soriano, Cuba	Joaquin Venero Obregon
KECA			B(5)	Los Angeles, Calif.	Joaquin Venero Obregon Earl C. Anthony, Inc.
KGNF		1000	D .	North Platte, Nebr.	Great Plains Brdcstg. Co.
	а	500	BM(2.5	) Des Moines, Iowa	Iowa Brdcstg. Co.
KSO	a	500 1000	BM(2.5	Los Angeles, Calif. North Platte, Nebr. ) Des Moines, Iowa Columbus, Ohio	Great Plains Brdcstg. Co. Iowa Brdcstg. Co. WBNS, Inc.
KSO WBNS	a	1000	C(5)	Olumbus, Ohio Rochester, N. Y.	WBNS, Inc.
KSO WBNS WHEO	a a	1000 500	C(5) C(1)	Columbus, Ohio Rochester, N. Y.	WBNS, Inc.
KSO WBNS WHEO WHP	a a a	1000 500 500	C(5) C(1) C(1)	Columbus, Ohio Rochester, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc.
KSO WBNS WHEO WHP WMPS	a a a a	1000 500 500 500	C(5) C(1) C(1) B(1)	Columbus, Ohio Rochester, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea
KSO WBNS WHEO WHP	a a a a	1000 500 500	C(5) C(1) C(1)	) Des Moines, Iowa Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc.
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500	C(5) C(1) C(1) B(1) C(1)	Columbus, Ohio Rochester, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500	C(5) C(1) C(1) B(1) C(1)	Columbus, Ohio Rochester, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 500	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 500 (208.2	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 500 (208.2	C(5) C(1) C(1) B(1) C(1)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor
WBNS WHEG WHP WMPS WOKG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 500 (208.2	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo.	WBNS, Inc. WHEC, Inc. WHEP, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway
KSO WBNS WHEC WHP WMPS WOKO 1440 CMBC CMOA HPSO KDFN KELA	kcs.	1000 500 500 500 500 (208.2	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdeste, Corp.
KSO WBNS WHEO WHP WOKO 1440 CMOA HPSO KDFN KELA KXYZ	kcs.	1000 500 500 500 500 (208.2 225 150  500 500	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdeste, Corp.
KSO WBNS WHEC WHP WMP WOKO  1440  CMBC CMOA HPSO KDFN KELA KXYZ WBIG	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 500 1000	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdeste, Corp.
KSO WBNS WHEC WHP WMP WOKO  1440  CMBC CMOA HPSO KDFN KELA KXYZ WBIG WCBA	kcs.  a  a  a  a  c  a  c  a  a  a  a  a  a	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman
KSO WBNS WHE WHP WMP WOKO  1440  CMBO CMOA HPSO KDFN KELA KXYZ WBIG WCBA WMB	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 1000 1000	C(5) C(1) B(1) C(1) m.) M BM C a C(5)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman
KSO WBNE WHE WHP WOKO 1440 CMOA HPSO KDFN KELA WSIG WCBA WMSAN	kcs.  a  z  a  a  a  a  b  kcs.  a  z  a  a  a  a  a  a  a  a  a  a  a	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500	C(5) C(1) C(1) B(1) C(1) m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Ill. Allentown, Pa. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Peoria, Ill. Allentown, Pa.	WBNS, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc.
KSO WBNS WHE WHP WMP WOKO  1440  CMBO CMOA HPSO KDFN KELA KXYZ WBIG WCBA WMB	a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 1000 1000	C(5) C(1) B(1) C(1) m.) M BM C a C(5)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill.	WBNS, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman
KSO WBNS WHEE WHP WMP WOKO  1440  CMBO CMOA HPSO KDFN KELA KXYZ WBIG WCBA WMB	kcs.  a  z  a  a  a  b  kcs.  a  z  a  a  a  a  a  a  a  a	1000 500 500 500 500 (208.2 225 150 500 1000 1000 500 250	C(5) C(1) B(1) C(1) m.)  M BM C a C(5) Na	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Ill. Allentown, Pa. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Peoria, Ill. Allentown, Pa.	WBNS, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc.
KSO WBNS WHEE WHP WMP WOKO  1440  CMBO CMOA HPSO KDFN KELA KXYZ WBIG WCBA WMB	kcs.  a  z  a  a  a  b  kcs.  a  z  a  a  a  a  a  a  a  a	1000 500 500 500 500 (208.2 225 150 500 1000 1000 500 250	C(5) C(1) B(1) C(1) m.)  M BM C a C(5) Na	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Ill. Allentown, Pa. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Peoria, Ill. Allentown, Pa.	WBNS, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc.
KSO WBNS WHEG WHP WMP WOKO  CMOA HPSO KDIN KELA KXYZ WBIG WCBA WMBI WSAN XEFI  1450	kcs.	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na m.)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.	WBNS, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas
KSO WBNS WHEC WHP WOKO  1440  CMBC CMOA HPSOO KDFN KELAA KXYZ WBIG WSAN XEFI  1450  CFCT	kcs.  a  a  a  a  c  a  a  a  a  a  a  a  a	1000 500 500 500 500 (208.2 225 150 500 1000 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.)  M BM C a C(5) Na 	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas
KSO WBNS WHEC WHP WMP WOKO  1440  CMBC CMBC CMOA HPSO KDFN KELA KXYA WMBB WSAN XEFI  1450  CFCT GHGS	kcs.  a  a  a  c  a  c  a  c  c  a  c  c  c	1000 500 500 500 500 (208.2 225 150 500 500 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na T.	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdestg. Cop. Harris County Brdestg. Co. N. C. Brdestg. Co. B. B. Musselman Peoria Brdestg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdestg. Assn. R. T. Holman, Ltd.
KSO WBNS WHEG WHP WMP WOKO  1440  CMBG CMOA HPSO KELA KXYYZ WBIG WCBA WMBI WSAN XEFI  1450  CFCT GHGS CMHI	kcs.  a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 1000 500 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.)  M BM C a C(5) Na 	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.	WBNS, Inc. WHEC, Inc. WHEP, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Corp. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias
KSO WBNS WHEC WHP WMP WMP WMP WMP WMP WMP WMP WMP WMP WM	kcs.	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na T F	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.  Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Cop. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. F. Krebsbach
KSO WBNS WHEG WHP WMP WMP WOKO  1440  CMBC CMOA HPSO KDFN KELA KXYS WBIG WCBA WMB WSAN XEFI  1450  CFCT GHGS CMHI KGCS KIEM	kcs.  a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150 500 1000 500 250 (206.8 500 150 150 150 500 500 500 500	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na m.) F M(1)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih. Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Cop. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. F. Krebsbach
KSO WBNS WHEG WHP WMP WMP WOKO  CMBG CMOA HPSO KELA KXYZ WBIG WCBA WSAB XEFI  1450 CFCT GHGS CMHS KGCX KIEM	kcs.     kcs.     kcs.     kcs.     kcs.       kcs.	1000 500 500 500 500 (208.2 225 150  500 1000 500 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na T F	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Cop. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. F. Krebsbach
KSO WBNS WHEC WHP WMP WOKO  1440  CMBC CMOA HPSOO KDFN KELA KXY7Z WBIG WCBA WSAN XEFI  1450  CFCT GHGS CMHI KGCX KIEM KTBS TGQ	kcs.  a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500 250 (206.8 500 150 150 150 150 150 150 250	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na  T M(1) N	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Quezaltenango, Guat.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Cop. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. F. Krebsbach
KSO WBNS WHEG WHP WMP WOKO  1440  CMBG CMOA HPSO KELA KXYS WBIG WCBA WSAN XEFI  1450  CFCT GHGS CMHI KGCX KIEM KTBS TGG WAG	kcs.  a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500 250 (206.8 500 150 150 150 150 150 150 150	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na F M(1) N	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Ginfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Quezaltenango, Guat. Atlanta, Ga.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Cop. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. F. Krebsbach
KSO WBNS WHEC WHP WMP WOKO  1440  CMBC CMOA HPSOO KDFN KELA KXY7Z WBIG WCBA WSAN XEFI  1450  CFCT GHGS CMHI KGCX KIEM KTBS TGQ	kcs.  a a a a a a a a a a a a a a a a a a a	1000 500 500 500 500 (208.2 225 150  500 1000 500 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na  T M(1) N	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Quezaltenango, Guat. Atlanta, Ga. Cleveland. Ohio	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdestg. Cop. Harris County Brdestg. Co. N. C. Brdestg. Co. B. B. Musselman Peoria Brdestg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdestg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. E. Krebsbach Redwood Brdestg. Co. Tri-State Brdestg. Sys. Dir. of Elec. Comm. Liberty Brdestg. Co. WGAR Brdestg. Co.
KSO WBNS WHEG WHP WMP WOKO  1440  CMBG CMOA HPSO KELA KXYS WBIG WCBA WSAN XEFI  1450  CFCT GHGS CMHI KGCX KIEM KTBS TGG WAG	AR	1000 500 500 500 500 (208.2 225 150  500 1000 1000 500 250 (206.8 500 150 150 150 150 150 150 150	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na F M(1) N B(1) CX(1)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Quezaltenango, Guat. Atlanta, Ga. Cleveland. Ohio	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdestg. Cop. Harris County Brdestg. Co. N. C. Brdestg. Co. B. B. Musselman Peoria Brdestg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdestg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. E. Krebsbach Redwood Brdestg. Co. Tri-State Brdestg. Sys. Dir. of Elec. Comm. Liberty Brdestg. Co. WGAR Brdestg. Co.
KSO WBNS WHEC WHP WOKO  1440  CMBC CMOA HPSOO KDFN KELAA KXYZ WBIG WSAN XEFI  1450  CFCT GHGS CMHI KGC: KIEBS TGO WAG: WGAG	ARM   ARM	1000 500 500 500 500 (208.2 225 150  500 1000 500 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na F M(1) N	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Quezaltenango, Guat. Atlanta, Ga. Cleveland, Ohio Jersey City, N. J. Fall River, Mass.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEC, Inc. WHP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdestg. Cop. Harris County Brdestg. Co. N. C. Brdestg. Co. B. B. Musselman Peoria Brdestg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdestg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. E. Krebsbach Redwood Brdestg. Co. Tri-State Brdestg. Sys. Dir. of Elec. Comm. Liberty Brdestg. Co. WGAR Brdestg. Co.
KSO WBNS WHEC WHP WMP WOKO  1440  CMBC CMOA HPSO KDFN KELA KXYZ WBIG WCBA WSAN XEFI  1450  CFCT GHGS CMHI KGCS KIEM KTBS TRS WAGA WGA	ARM   ARM	1000 500 500 500 500 (208.2 225 150  500 500 1000 500 250 (206.8 500 1000 500 250 (206.8	C(5) C(1) B(1) C(1) m.) M BM C a C(5) Na F M(1) N B(1) CX(1)	Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y. Havana, Cuba Havana, Cuba Colon, Panama Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.  Victoria, B. C. Summerside, P. E. I. Ginfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Quezaltenango, Guat. Atlanta, Ga.	WBNS, Inc. WHEC, Inc. WHEC, Inc. WHEP, Inc. Memphis Commercial Appea WOKO, Inc.  John L. Stowers Juan Fernandez Duran La Voz de Victor Donald L. Hathaway Central Brdcstg. Cop. Harris County Brdcstg. Co. N. C. Brdcstg. Co. B. B. Musselman Peoria Brdcstg. Co. WSAN, Inc. Feliciano Lopez Islas  Victoria Brdcstg. Assn. R. T. Holman, Ltd. Jose R. Feminias E. F. Krebsbach

1460	kcs.	(205.4	m.)		
CMKF KSTP WJSV	z a a	250 10000 10000	R(25) C	Holguin, Cuba St. Paul, Minn. Washington, D. C.	Manuel J. De Gongora Nationa! Battery Brdcstg. Co. Columbia Brdcstg. Sys.
1470	kcs.	(204 n	1.)		
KGA WLAC	a a	5000 5000	BM C	Spokane, Wash. Nashville, Tenn.	Louis Wasmer WLAC Brdcstg. Service
<b>14</b> 80	kcs.	(202.6	m.)		
KOMA Whip	a z	5000 5000	C D	Oklahoma City, Okla. Hammond, Ind.	Hearst Radio, Inc. Hammond-Calumet Brdcstg. Corp.
WKBW		5000	č	Buffalo, N. Y.	Buffalo Brdcstg. Corp.
<b>14</b> 90	kcs.	(201.2	m.)		
CMKQ KFBK	z a	200 10000	N	Santiago, Cuba Sacramento, Calif.	Mario Abril Dumois McClatchey Brdcstg. Co.
WCKY	a	10000	N	Covington, Ky.	L. B. Wilson, Inc.
1500	kcs.	(199.9	m.)		
CIIC	a	100	F	Sault Ste. Marie, Ont.	Whitby and Hyland
CMCG KAWM	a z	150 100		Havana, Cuba Gallup, N. Mex.	La Onda, S. A. A. W. Mills
KBIX	a	100	M	Muskogee, Okla.	Okla. Pres. Pub. Co.
KBKR	z	100	(.25)P	Baker, Ore.	Louis P. Thornton
KBST	z a	100 100	M	Big Spring, Tex.	Big Spring Herald Brdcstg. Co. Red River Brdc. Co.
KDAL KDB	a	100	C M( 25)	Duluth, Minn. Santa Barbara, Calif.	S. B. Brdcasters, Ltd.
KGFI	a	100	(.25)	Brownsville, Tex.	Eagle Brdcstg. Co., Inc.
KGKB	a	100		Tyler, Texas	East Texas Brdcstg. Co.
KGKY	a	100	(.25)	Scottsbluff, Nebr.	Hillard Co., Inc.
KNEL	a	250	D	Brady, Texas	G. L. Burns
KNOW	a	100	CM	Austin, Texas	KUT Brdcstg. Corp.
KOTN	a	100 100	D	Pine Bluff, Ark.	Universal Brdcstg. Corp.
KOVC KPAB	a z	100	(.25) (.25)	Valley City, N. Dak.	KOVC, Inc. Mervel M. Valentine
KPLC	a	100	(.25)	Laredo, Tex. Lake Charles, La.	Calcasieu Brdcstg. Co.
KPLT	z	250	DM	Paris, Texas	North Texas Brdcstg. Co.
KPQ	a	100	M(.25)	Wenatchee, Wash.	Wescoast Brdcstg. Co.
KRNR	a	100	M(.25)		News-Review Co.
KROD	z	100	P	El Paso, Texas	Dorrance D. Roderick
KSAL	a	100	(.25)	Salina, Kans.	R. J. Laubengayer
KSAM KUTA	Z 7.	100 100	DP N	Huntsville, Texas Salt Lake City, Utah	Sam Houston Brd. Co. Utah Brdcstg. Co.
KVNU	7.	100	P	Logan Iltah	Cache Valley Brd. Co.
KVOE	a	100	M	Logan, Utah Santa Ana, Calif.	Voice of Orange Empire
KVWC	z	100	P	Vernon, Texas Hobbs, N. Mex.	
KWEW	Z	100	D	Hobbs, N. Mex.	W. E. Whitmore
KXO	a	100		El Centro, Calif.	Irey and Bowles
KYCA	Z Z	100 100	(.25)P	Prescott, Ariz.	Southwest Brdcstg. Co.
KYSM WCNW		100	P(.25) 1(.25)	Mankato, Minn. Brooklyn, N. Y.	F. B. Clement & Co. Arthur Faske
WDAN	7.	250	DP	Daanville, Ill.	Northwestern Pub. Co.
WDNC	a	100	č	Durhm, N. C.	Durham Radio Corp.
WGAL	a	100	(.25)	Lancaster, Pa.	WGAL, Inc.
WGIL	2	250	DP	Galesburg, Ill. Charleston, W. Pa.	Galesburg Brdc. Co. Kanawha Valley Brd. Co.
WGKV	z	100	P		Kanawha Valley Brd. Co.
WHBB	a	100		Selma, Ala.	Selma Brdcstg. Co. Attala Brdcstg. Corp.
WHEF	a	100	(.25)	Kosciusko, Miss.	Attaia Brdcstg. Corp.
WJBK WKAT	a a	100 100	(.25)	Detroit, Mich. Miami Beach, Fla.	James F. Hopkins, Inc. A. Frank Katzentine
WKBB	a	100	YC ( 25	E. Dubuque, Ill.	Sanders Brothers
WKBV	a	100	(.25)	Richmond, Ind.	Knox Radio Corp.
WKBZ	2	100	(.25)	Muskegon, Mich.	Ashbacker Radio Corp.

WKEU a WMEX a WNBF a WNIC a WOMI a WOPI a WRGA a WRTD a WSTP z WSYB a WSW a WWRL a WWSW a	100 (.25) 100 100 C(.25) 100 (.25) 100 B	Griffin, Ga. Boston, Mass. Binghamton, N. Y. New London, Conn. Owensboro, Ky. Bristel, Tenn. Augusta, Ga. Rome, Ga. Rrchmond, Va. Salisbury, N. C. Rutland, Vt. E. St. Louis, Ill. Woodside, N. Y. Pittsburgh, Pa.	Station WKEU Northern Corp. Howitt-Wood Radio Co. Thames Brdcstg. Corp. Owenshoro Brdc. Co. Radiophone Station WOPI Augusta Brdcstg. Co. Rome Brdcstg. Corp. Times Dispatch Radio Corp. Piedmont Brdcstg. Corp. Philip Weiss Music Co. Miss. Val. Brdc. Co. Long Island Brdcstg. Corp. Walker & Downing Radio Corp.
1510 kcs.	(198.6 m.)		
CFRC a CKCR a	100 F 100	Kingston, Ont. Waterloo, Ont.	Queen's University Mitchell & Liddle
1520 kcs.	(197.3 m.)		
TGW d	1000	Guatemala City, Guat.	Ministerio de Fomento
1530 kcs.	(196 m.)		
KITE a WBRY a	1000 1000 M	Kansas City, Mo. Waterbury, Conn.	First Natl. Television, Inc. American Republican, Inc.
<b>1540 kcs.</b> CM9RT z	(194.7 m.)	Guines, Cuba	Raul Torres Padal
1550 kcs. KPMC a WQXR a	(193.4 m.)	Bakersfield, Calif. New York, N. Y.	Pioneer Mercantile Co. Interstate Brdcstg. Co.

#### Music Hall Concerts

The Radio City Music Hall of the Air Sunday concerts, the oldest and longest sustained series of its kind in radio, is now heard a half hour earlier over the NBC-Blue Network. The new schedule brings the program to listeners each week from noon to 1 pm, EST.

For more than five years these broadcasts, under the direction of Erno Rapee, have presented the world's greatest music to radio listeners in North and South America through the NBC coast to coast network, the

Canadian Broadcasting Corporation's system, and the NBC shortwave facilities

#### **Uruguayan Special**

Radio station CX26, 1050 kcs., at Montevideo, Uruguay, will broadcast a special DX program on November 5 and 6, from 3 to 5 am, EST. This program is dedicated to the National Radio Club. Verifications will be sent for ten cents, or for thirty cents, they will send a selection of pictures taken during the time the programs are in progress.

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

F Canadian, M Muual.

ALABAMA	Little Rock KARK 890 500 N	KJBS 1070 500 KFO 680 50000 R	WDEL 1120 250 R WILM 1420 100
Anniston WHMA 1420 100	KGHI 1200 100	KSAN 1420 100	
Birmingham	KLRA 1390 1000 C Pine Bluff	KSFO 560 1000 C KYA 1230 1000	DISTRICT OF COLUMBIA
WAPI 1140 5000 C	KOTN 1500 100	San Jose	COLUMBIA
WBRC 930 1000 R	Siloam Springs	KQW 1010 1000M	Washington
WSGN 1310 100 B Decatur	KUOA 1260 5000	San Luis Obispo KVEC 1200 100	WJSV 1460 10000 C
WMFO 1370 100	CALIFORNIA	Santa Ana	WMAL 630 250 R WOL 1310 1000 M
Dothan	CALIFORNIA	KVOE 1500 100M	WRC 950 1000 R
WAGF 1370 250 Gadsden	Bakersfield	Santa Barbara	
WJBY 1210 100	KERN 1370 100 N	KDB 1500 100M KTMS 1220 500 B	FLORIDA
Huntsville		Santa Rosa	
WBHP 1200 100	Berkeley KRE 1370 100	KSRO 1310 100	Daytona Beach
Mobile WALA 1380 500 C	Beverly Hills	Stockton KGDM 1100 1000M	WMFJ 1420 100 Gainesville
Montgomery	KMPC 710 500	KWG 1200 100 N	WRUF 830 5000
WCOV 1210 100 WSFA 1410 500 C	Chico KHSL 1260 250	Visalia	Jacksonville
WSFA 1410 500 C Selma	El Centro	KTKC 1190 250 Watsonville	WJAX 900 1000 N WMBR 1370 100 C
WHBB 1500 100	KXO 1500 100	KHUB 1310 250	Lakeland
Muscle Shoals City	Eureka KIEM 1450 500M		WLAK 1310 100
WMSD 1420 100 Tuscaloosa	Fresno	COLORADO	Miami WIOD 610 1000 N
WIRD 1200 250	KARM 1310 100 C	Alamosa	WMBF 610 1000 N
	KMJ 580 1000 N Glendale	KGIW 1420 100	WQAM 560 1000 C
ALASKA	KIEV 850 250	Colorado Springs KVOR 1270 1000 C	Miami Beach
Anchorage	Long Beach	Denver	WKAT 1500 100 Orlando
KFQD 780 250 Fairbanks	KFOX 1250 1000 KGER 1360 1000	KFEL 920 500M	WDBO 580 1000 C
KFAR 610 1000	KGER 1360 1000 Los Angeles	KLZ 560 1000 C KOA 830 50000 R	Pensacola
Juneau	KECA 1430 1000 B	KPOF 880 1000	WCOA 1340 500 C St. Augustine
KINY 1310 100 Ketchikan	KEHE 780 1000	KVOD 920 500 B	WFOY 1210 100
KGBU 900 500	KFAC 1300 1000 KFI 640 50000 R	Durango KIUP 1370 100	St. Petersburg
ARIZONA	KFSG 1120 500	Grand Junction	WSUN 620 1000 N Tallahassee
	KFVD 1000 1000	KFXJ 1200 100	WTAL 1310 100
Globe KWJB 1210 100	KFWB 950 1000 KGFI 1200 100	Greeley KFKA 880 500M	Tampa
KWJB 1210 100 Jerome	KHI 900 1000M	La Tunta	WDAE 1220 1000 C WFLA 620 1000 N
KCRJ 1310 100	KMTR 570 1000	La Junta KOKO 1370 100	West Palm Beach
Lowell	KNX 1050 50000 C KRKD 1120 500	Lamar KIDW 1420 100	WJNO 1200 100 C
KSUN 1200 100 Phoenix	Merced 500	Pueblo	()————————————————————————————————————
KOY 1390 1000 C	KYOS 1040 250	KGHF 1320 500 B	GEORGIA
KTAR 620 1000 N	Modesto KTRB 740 250	Sterling KGEK 1200 100	A 11
Prescott KYCA 1500 100	Monterey	KGEK 1200 100	Albany WGPC 1420 100
Safford	KDON 1210 100M	CONNECTICUT	Athens
KGLU 1420 100	Oakland KLS 1280 250	Bridgeport	WGAU 1310 100
Tucson KGAR 1370 100 C	KLX 880 1000	WICC 600 500M	Atlanta WAGA 1450 500 B
KVOA 1260 1000	KROW 930 1000	Hartford WDRC 1330 1000 C	WATL 1370 100
Yuma KUMA 1420 100	Pasadena KPPC 1210 100	WTIC 1040 50000 R	WGST 890 1000 C WSB 740 50000 R
KUMA 1420 100	Redding	WTHT 1200 100M	WSB 740 50000 R Augusta
ARKANSAS	KVCV 1200 100	New Britain WNBC 1380 250	WRDW 1500 100 C
Blytheville	Sacramento KFBK 1490 10000 N	New Haven	Columbus
KLCN 1290 100	KROY 1210 100 C	WELI 900 500	WRBL 1200 100 Griffin
El Dorado	San Bernardino	New London WNLC 1500 100M	WKEU 1500 100
KELD 1370 100 Fort Smith	KFXM 1210 100M San Diego	Waterbury	Macon
KFPW 1210 100	KFSD 600 1000 B	WATR 1190 100 WBRY 1530 1000M	WMAZ 1180 1000 C Rome
Hot Springs	KGB 1330 1000M	WBRY 1530 1000M	WRGA 1500 100
KTHS 1060 10000 N Jonesboro	San Francisco KFRC 610 1000M	DELAWARE	Savannah
KBTM 1200 100	KGO 790 7500 B	Wilmington	WSAV 1310 100 WTOC 1260 1000 C
			1200 €

MORTH 2	imbrionit b. c. ,	3111110110 B1 20	
Thomasville	Quincy	Mason City	Monroe
WPAX 1210 100	WTAD 900 1000	KGLO 1210 100 C	KMLB 1200 100
Waycross	Rockford	Shenandoah	New Orleans
WAYX 1200 100	WROK 1410 500	KFNF 890 500	WBNO 1200 100
	Rock Island WHBF 1210 100	KMA 930 1000 B	WDSU 1250 1000 B
HAWAII	WHBF 1210 100	Sioux City	WJBW 1200 100
	Springfield	KSCJ 1330 1000 C	WSMB 1320 1000 R
Hilo KHBC 1400 250M	WCBS 1420 100 WTAX 1210 100	KTRI 1420 100	WWL 850 10000 C
KHBC 1400 250M Honolulu	WTAX 1210 100 Tuscola		Shreveport KRMD 1310 100
KGMB 1320 1000 C	WDZ 1020 250	KANSAS	KTBS 1450 1000 N
KGU 750 2500 N	Urbana		KWKH 1100 10000 C
	WILL 580 1000	Abilene	1100 1000
IDAHO		KFBI 1050 5000	
Boise	INDIANA	Atchison	MAINE
KIDO 1350 1000 N	INDIANA	KVAK 1420 100	Assessates
Coeur d'Alene	Anderson	Coffeyville	Augusta WRDO 1370 100M
KGCI 1200 100	WHBU 1210 100	KGGF 1010 1000M	Bangor
Idaho Falls	Elkhart	Dodge City	WABI 1200 100
KID 1320 500	WTRC 1310 100	KGNO 1340 250 Garden City	WLBZ 620 500 C
Lewiston KRLC 1390 250	Evansville	KIUL 1210 100	Lewister
Nampa	WEOA 1370 100 C	Great Bend	WCOV 1210 100
KFXD 1200 100	WGBF 630 500 N Fort Wayne	KVGB 1370 100	Portland
Pocatello	WGL 1370 100 N	Hutchinson	WCSH 940 1000 B
KSEI 900 250 N	WOWO 1160 10000 B	KWBG 1420 100	WGAN 640 500
Twin Falls	Gary	Kansas City	Presque Isle WAGM 1420 100
KTFI 1240 1000 N	WIND 560 1000	KCKN 1310 100	WHGM 1420 100
ILLINOIS	Hammond	Lawrence KFKU 1220 1000	MARYLAND
	WHIP 1480 5000	KFKU 1220 1000 WREN 1220 1000 B	
Aurora	WWAE 1200 100 Indianapolis	Manhattan	Baltimore
WMRO 1250 250	WFBM 1230 1000 C	KSAC 580 500	WBAL 760 2500 B WBAL 1060 10000 B
Bloomington WJBC 1200 100	WIBC 1050 1000	Pittsburg	WCAO 600 1000 C
Carthage	WIRE 1400 1000 R	KOAM 790 1000 N	WCBM 1370 100
WCAZ 1070 100	Muncie	Salina	WFBR 1270 500 R
Champaign	WLBC 1310 100	KSAL 1500 100	College Park
WDWS 1370 100	New Albany WGRC 1370 250	Topeka WIBW 580 1000 C	W3XJ 1060 100
Chicago	WGRC 1370 250 Richmond	Wichita	Cumberland
WAAF 920 1000 WBBM 770 50000 C	WKBV 1500 100	KANS 1210 100 B	WTBO 800 250 Frederick
WBBM 770 50000 C WCBD 1080 5000	South Bend	KFH 1300 1000 C	WFMD 900 500
WCBD 1080 5000 WCFL 970 5000 N	WFAM 1200 100		Hagerstown
WCRW 1210 100	WSBT 1360 500	KENTUCKY	WJEJ 1210 100
WEDC 1210 100	Terre Haute	KENTUCKI	Salisbury
WENR 870 50000 B	WBOW 1310 100 N West Lafayette	Ashland	WSAL 1200 250
WGES 1360 500	WBAA 890 500	WCMI 1310 100	
WGN 720 50000M	** 131111 030 300	Covington	MASSACHUSETTS
WJJD 1130 20000 WLS 870 50000 B	IOWA	WCKY 1490 10000 N	Boston
WMAO 670 50000 R	Ames	Lexington	WAAB 1410 500M
WMBI 1080 5000	WOI 640 5000	WLAP 1420 100	WBZ 990 50000 B
WSBC 1210 100	Воопе	Louisville WAVE 940 1000 N	WCOP 1120 500
Cicero	KFGQ 1370 100	WHAS 820 50000 C	WEEI 590 1000 C
WHFC 1420 100	Cedar Rapids	Owensboro	WHDH 830 1000 WMEX 1500 100
Danville WDAN 1500 250	WMT 600 1000 B	WOMI 1500 100	WMEX 1500 100 WNAC 1230 1000 R
Decatur 250	Davenport WOC 1370 100 C	Paducah	WORL 920 500
WIBL 1200 100	Desorah	WPAD 1420 100	Cape Cod
East Dubuque	KGCA 1270 100		Cape Cod WOCB 1210 100
WKBB 1500 100 C	KWLC 1270 100		Fall River
East St. Louis	Des Moines	LOUISIANA	WSAR 1450 1000M
WTMV 1500 100	KRNT 1320 1000 C	A1	Greenfield
Galesburg	KSO 1430 500 B WHO 1000 50000 R	Alexandria KALB 1210 100	WHAI 1210 250 Lawrence
WGIL 1500 250 Harrisburg	WHO 1000 50000 R Dubuque	Baton Rouge	WLAW 680 1000
WEBQ 1210 100	KDTH 1340 500	WJBO 1120 500 B	WLLH 1370 100
Joliet 100	Iowa City	Lafayette	Lowell
WCLS 1310 100	WSUI 880 500	KVOL 1310 100	New Bedford
Peoria	Marshalltown	Lake Charles	WNLH 1310 100M
WMBD 1440 1000 C	KFJB 1200 100	KPLC 1500 100	WLLH 1370 100M

		1	1
Pittsfield	Northfield	Bozeman	Whippany
WBRK 1310 100 C	WCAL 760 1000	KRBM 1420 100	W3XDD 50000
Springfield	Rochester	Butte	Zarephath
WBZA 990 1000 B	KROC 1310 100	KGIR 1340 1000 N	WAWZ 1350 500
WMAS 1420 100 C	St. Cloud	Great Falls	WAW 2 1330 300
WSPR 1140 500M	KFAM 1420 100	KFBB 1280 1000 C	Marry Marriage
Worcester	St. Paul	Helena	NEW MEXICO
WORC 1280 500 C	KSTP 1460 10000 R	KPFA 1210 100 N	A 11
WTAG 580 1000 R	WMIN 1370 1000 K	Kalispell	Albuquerque
W 1 AG 380 1000 K	Virginia	KGEZ 1310 100	KGGM 1230 1000
MICHIGAN	WHLB 1370 100 C	Lewistown	KOB 1180 10000 N
MICHIGAN	Winona	KDNC 1200 100	Carlsbad
	KWNO 1200 250	Missoula	KLAH 1210 100
Battle Creek	K W 14(7 1200 250	KGVO 1260 1000 C	Clovis
WELL_1420 100	MICCICCIDDI	Wolf Point	KICA 1370 100
Bay City	MISSISSIPPI	KGCX 1450 1000	Gallup
WBCM 1410 500	Grenada	KGCX 1430 1000	KAWM 1500 100
Calumet	WGRM 1210 100	NEBRASKA	Hobbs
WHDF 1370 100	Gulfport		KWEW 1500 100
Detroit	WGCM 1210 100	Clay Center	Roswell
WJBK 1500 100	Hattiesburg	KMMI 740 1000	KGFL 1370 100 Santa Fe
WJR 750 50000 C	WFOR 1370 100	Kearney	Santa Fe
WMBC 1420 100	Jackson	KGFW 1310 100	KRQA 1310 100
WWJ 920 5000 R	WIDX 1270 1000 R	Lincoln	
WXYZ 1240 1000 B	WSLT 1420 100 K	KFAB 770 10000 C	NEW YORK
East Lansing	Kosciusko	KFOR 1210 100 C	
WKAR 850 1000	WHEF 1500 100	Norfolk	Albany
Flint	Laurel		WABY 1370 100 N
WFDF 1310 100	WAML 1310 100	WJAG 1060 1000 North Platte	WOKO 1430 500 C
Grand Rapids	Meridian	KGNF 1430 1000	Auburn
WASH 1270 500 N	WCOC 880 1000 C	Omaha	WMBO 1310 100
WOOD 1270 500 N	Vicksburg	KOIL 1260 1000 B	Binghamton
Ironwood	WQBC 1360 1000	WAAW 660 500	WNBF 1500 100 (
WJMS 1420 100	WODC 1300 1000	WOW 590 1000 R	Brooklyn
Jackson		Scottsbluff	WARD 1400 500
WIBM 1370 100	MISSOURI	KGKY 1500 100	WBBC 1400 500
Kalamazoo			WBBR 1300 1000
WKZO 590 1000 B	Cape Girardeau	NEVADA	WCNW 1500 100
Lansing	KFVS 1210 100		WLTH 1400 500
WJIM 1210 100	Columbia	Reno	WVFW 1400 500
Lapeer WMPC 1200 100	KFRU 630 500	KOH 1380 500 C	Buffalo
	Jefferson City		WBEN 900 1000 P
Marquette WBEO 1310 100	KWOS 1310 100	WELL WANDSTEED	WBNY 1370 100
Muskegon	Joplin	NEW HAMPSHIRE	WEBR 1310 100 B
WKBZ 1500 100	WMBH 1420 100	Tanania	WGR 550 1000 (
Port Huron	Kansas City	Laconia WLNH 1310 100M	WKBW 1480 5000 C
WHLS 1370 250	KCMO 1370 100	Manchester 100M	WSVS 1370 50
Royal Oak	KITE 1530 1000		Canton
WEXL 1310 50	KMBC 950 1000 C	WFEA 1340 500 N Portsmouth	WCAD 1220 500
	WDAF 610 1000 R		Elmira
Saginaw			
Saginaw WHAI. <b>9</b> 50 500	WHB 860 1000M	WHEB 740 250	WENY 1200 250
Saginaw WHAL 950 500	WHB 860 1000M Poplar Bluff		WENY 1200 250 WESG 850 1000 (
WHAL 950 500	WHB 860 1000M Poplar Bluff KWOC 1310 100	NEW JERSEY	WENY 1200 250 WESG 850 1000 ( Freeport
WHAL 950 500 MINNESOTA	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph	NEW JERSEY	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100
MINNESOTA Albert Lea	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFFQ 680 2500	NEW JERSEY Asbury Park	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown
MINNESOTA Albert Lea KATE 1420 250	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis	NEW JERSEY  Asbury Park WCAP 1280 500	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 B
MINNESOTA  Albert Lea KATE 1420 250 Duluth	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 k Newburgh WGNY 1210 100
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 (
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWS 1350 1000 R KWOK 1250 1000	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing	WHB 860 1000M Popplar Bluff KWOC 1310 100 St. Joseph KFEO 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFFQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 R KXOK 1250 1000 WEW 760 1000 WEW 760 1000 Springfield	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WBOQ 860 50000 R
MHÂL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100	WHB 860 1000M Popplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WIEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000 R WEAF 660 50000 R WEVD 1300 1000
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 R KXOK 1250 1000 WEW 760 1000 WEW 760 1000 Springfield	Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WEAF 660 50000 R WEVD 1300 1000 WFAF 1300 1000
MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1210 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C	WHB 860 1000M Popplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WIEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N	NEW JERSEY   Asbury Park   WCAP 1280 500   Atlantic City   WPG 1100 5000 C   Bridgeton   WSNJ 1210 100   Camden   WCAM 1280 500   Jersey City   WAAT 940 500   WHOM 1450 250   Newark WHBI 1250 1000	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WBOQ 860 50000 ( WEAF 660 50000 ( WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000
MHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFFQ 680 2500 St. Louis KFWO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000 WEAF 660 50000 B WEVD 1300 1000 WHAB 1300 1000 WHN 1010 1000 WHN 1010 1000 WHN 11180 1000
MHÂL 950 500  MINNESOTA  Albert Lea KATE 1420 250  Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000	WHB 860 1000M Popplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WIEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N	NEW JERSEY   Asbury Park   WCAP 1280   500   Atlantic City   WPG   1100   5000 C   Bridgeton   WSNJ   1210   100   Camden   WCAM 1280   500   Jersey City   WAAT 940   500   WHOM 1450   250   Newark   WHBI 1250   1000   WOR 710   500000M   Red Bank   South Park   South Park   WHBI 1250   1000   WOR 710   500000M   Red Bank   South Park   WHBI 1250   1000   WOR 710   500000M   Red Bank   South Park   WHBI 1250   1000   WOR 710   500000M   Red Bank   South Park   WHBI 1250   1000   WOR 710   500000M   Red Bank   WW   WW   WW   WW   WW   WW   WW	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WBOQ 860 50000 ( WEAF 660 50000 ( WEAT 1300 1000 WFAJ 1300 1000 WHN 1010 1000 WHN 1010 1000 WHN 1010 1000 WHN 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WIN 7 760 50000 ( WINS 1180 1000 WIN 7 760 50000 ( WINS 1180 1000
MHÂL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAI. 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000 WTCN 1250 1000 B	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M Red Bank WBRB 1210 100	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 K WWW York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WBNX 1350 1000 WEAF 660 50000 R WEVD 1300 1000 WFA3 1300 1000 WHN 1010 1000 WHN 1010 1000 WHNS 1180 1000 WJZ 760 50000 B WMCA 570 1000
MHÂL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000 WTCN 1250 1000 B Moorhead	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000  MONTANA Billings	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M Red Bank WBRB 1210 100 Trenton	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 New York WABC 860 50000 ( WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WBOQ 860 50000 R WEVD 1300 1000 WFA3 1300 1000 WFA3 1300 1000 WHN 1010 1000 WHN 1010 1000 WHN 1010 1000 WJZ 760 50000 B WMCA 570 1000 WMCA 570 1000 WNCA 570 1000 WNCA 570 1000
MHÂL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAI. 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000 WTCN 1250 1000 B	WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000	NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M Red Bank WBRB 1210 100	WENY 1200 250 WESG 850 1000 ( Freeport WGBB 1210 100 Jamestown WJTN 1210 100 K Newburgh WGNY 1210 100 K WWW York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WBNX 1350 1000 WEAF 660 50000 R WEVD 1300 1000 WFA3 1300 1000 WHN 1010 1000 WHN 1010 1000 WHNS 1180 1000 WJZ 760 50000 B WMCA 570 1000

WOV 1130 1000	Mandan	Tulsa	WPEN 920 1000
WQXR 1550 1000	KGCU 1240 250	KOME 1310 250	WRAX 920 1000
Ölean	Minot	KTUL 1400 1000 C	WTEL 1310 100
WHDL 1400 250	KLPM 1240 250	KVOO 1140 25000 N	Pittsburgh
Plattsburg WMFF 1310 100 B	Valley City KOVC 1500 100	OREGON	KDKA 980 50000B KOV 1380 500 C
Rochester	KOVC 1300 100	Astoria	WCAE 1220 1000 R
WHAM 1150 50000 B		KAST 1370 100	WJAS 1290 1000 C
WHEC 1430 500 C	ОНІО	Baker	WWSW 1500 100
WSAY 1210 100	Akron	KBKR 1500 100	Reading
Saranac Lake	WADC 1320 1000 C	Bend	WEEU 830 1000
WNBZ 1290 100	WJW 1210 100 Ashtabula	KBND 1310 100 Corvallis	WRAW 1310 100
Schenectady	WICA 940 250	KOAC 550 1000	Scranton WGBI 880 500 C
WGY 790 50000 R Syracuse	Canton	Eugene	WQAN 880 500
WFBL 1360 1000 C	WHBC 1200 100	KORE 1420 100M	Sharon
WSYR 570 1000 B	Cincinnati	Klamath Falls	WP1C 780 250
WSYU 570 1000	WCPO 1200 100	KFJI 1210 100	Sunbury
Troy	WKRC 550 1000 C WLW 700 500000N	La Grande	WKOK 1210 100
WHAZ 1300 1000	WLW 700 500000N WSAI 1330 1000 N	KLBM 1420 100 Marshfield	Uniontown WMBS 1420 250
950 1000	Cleveland	KOOS 1200 100	Wilkes-Barre
Utica WIBX 1200 100C	WCLE 610 500M	Medford	WBAX 1210 100M
White Plains	WGAR 1450 500 C	KMED 1410 250 N	WBRE 1310 100 N
WFAS 1210 100	WHK 1390 1000 B	Portland	Williamsport
Woodside	WTAM 1070 50000 R	KALE 1300 1000M	WRAK 1370 100
WWRL 1500 100	Columbus WBNS 1430 1000 C	KBPS 1420 100 KEX 1180 5000 B	York WORK 1320 1000 N
NORTH CAROLINA	WBNS 1430 1000 C WCOL 1210 100 N	KGW 620 1000 R	
Asheville	WHKC 640 500M	KOIN 940 1000 C	PUERTO RICO
WWNC 570 1000 N	WOSU 570 750	KWJJ 1040 500	Mayaguez WPRA 1370 100
Charlotte	Dayton	KXL 1420 100	WPRA 1370 100 Ponce
WBT 1080 50000 C	WHIO 1260 1000 C	Roseburg	WPRP 1420 100
WSOC 1210 100 N Durham	WSMK 1380 200 C Lima	KRNR 1500 100M Salem	San Juan
WDNC 1500 100 C	WBLY 1210 100	KSLM 1370 100M	WKAQ 1240 1000
Fayetteville	Portsmouth		WNEL 1290 1000
WFNC 1340 250	WPAY 1370 100	PENNSYLVANIA	RHODE ISLAND
WFNC 1340 250 Gastonia	WPAY 1370 100 Toledo		Providence
WFNC 1340 250 Gastonia WGNC 1420 100	WPAY 1370 100 Toledo WSPD 1340 1000 B	Allentown WCBA 1440 500	Providence WEAN 780 1000M
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100	Allentown WCBA 1440 500 WSAN 1440 500 N	Providence WEAN 780 1000M WJAR 890 1000 R
WFNC 1340 250 Gastonia WGNC 1420 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMI 1420 100	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona	Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100	Providence WEAN 780 1000M WJAR 890 1000 R
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton	Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C SOUTH CAROLINA Anderson
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie	Providence   WEAN 780 1000M   WJAR 890 1000 R   WPRO 630 500 C     SOUTH CAROLINA   Anderson   WAIM 1200 100 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B	Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C SOUTH CAROLINA Anderson WAIM 1200 100 C Charleston
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside	Providence   WEAN 780 1000M   WJAR 890 1000 R   WPRO 630 500 C   SOUTH CAROLINA   Anderson   WAIM 1200 100 C   Charleston   WCSC 1360 500 N
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100 OKLAHOMA Ada	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100	Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C SOUTH CAROLINA Anderson WAIM 1200 100 C Charleston WCSC 1360 500 N 1210 100
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100 OKLAHOMA Ada KADA 1200 100M	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 13440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100 OKLAHOMA Ada KADA 1200 100M	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C   SOUTH CAROLINA   Anderson   WAIM 1200   100 C   Charleston   WCSC 1360   500 N     1210   100 C   Columbia   WIS 560   1000 N   Florence   WOLS 1200   100 Greenville
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 13440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 Harrisburg WHP 1430 500 C	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C   SOUTH CAROLINA   Anderson   WAIM 1200   100 C   Charleston   WCSC 1360   500 N     1210   100 C   Columbia   WIS 560   1000 N   Florence   WOLS 1200   100 Greenville
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 Harrisburg WHP 1430 500 C	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem WAIR 1250 250	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 Hazelton WAZL 1420 100 Johnstown	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilmington WMFD 1370 100 Wilmington WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C   SOUTH CAROLINA   Anderson   WAIM 1200   100 C   Charleston   WCSC 1360   500 N     1210   100 C   Columbia   WIS 560   1000 N   Florence   WOLS 1200   100 Greenville   WFBC 1300   1000 N   Spartanburg   WSPA 920   1000   SOUTH DAKOTA   Aberdeen   1000   1000 M   SOUTH DAKOTA   1000   1000 M   1000
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Lancaster WGAL 1500 100 N	Providence   WEAN 780   1000M WJAR 890   1000 R WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilmington WMFD 1370 100 Wilmington WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck KFYR 550 1000 N	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100 KOMA 1480 5000 C	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster	Providence   WEAN 780   1000M WJAR 890   1000 R WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 New Castle WKST 1250 250 Philadelphia	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilmington WMFD 1370 100 Wilmington WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck KFYR 550 1000 N Devils Lake KDLR 1210 100 Fargo	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N Okmulgee	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 N New Castle WKST 1250 250 Philadelphia KYW 1020 10000 R	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA  Bismarck KFYR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100 Elik City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100 KOMA 1480 5000 C KTOK 1370 1000 N Okmulgee KHBIG 1210 100	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 N New Castle WKST 1250 250 Philadelphia KYW 1020 10000 R WCAU 1170 50000 C	Providence   WEAN 780 1000M   WJAR 890 1000 R   WPRO 630 500 C   SOUTH CAROLINA   Anderson   WAIM 1200 100 C   Charleston   WCSC 1360 500 N
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WELD 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilmington WMFD 1370 100 Wilmington WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck KFYR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100 Oklahoma City KOCY 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N Okmulgee KHBG 1210 100 Ponca City	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 N New Castle WKST 1250 250 Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WCAU 1170 50000 R WCAU 1170 50000 R	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WEED 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilmington WMFD 1370 100 Wilmington WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck KFYR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks KFJM 1410 500	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N Okmulgee KHRG 1210 100 Ponca City WBBZ 1200 100M	Allentown WCBA 1440 500 WSAN 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 N New Castle WKST 1250 250 Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C
WFNC 1340 250 Gastonia WGNC 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 5000 N WRAL 1210 100 Rocky Mount WELD 1420 100 Salisbury WSTP 1500 100 Wilmington WMFD 1370 100 Wilmington WMFD 1370 100 Wilmington WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C NORTH DAKOTA Bismarck KFYR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks	WPAY 1370 100 Toledo WSPD 1340 1000 B WTOL 1200 100 Youngstown WFMJ 1420 100 WKBN 570 500 C Zanesville WALR 1210 100  OKLAHOMA  Ada KADA 1200 100M Ardmore KVSO 1210 100M Elk City KASA 1210 100 Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KOCY 1310 100 Oklahoma City KOCY 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N Okmulgee KHBG 1210 100 Ponca City	Allentown WCBA 1440 500 N Altoona WFBG 1310 100 Easton WEST 1200 100 B Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazelton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 N New Castle WKST 1250 250 Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WCAU 1170 50000 R WCAU 1170 50000 R	Providence   WEAN 780   1000M   WJAR 890   1000 R   WPRO 630   500 C

Vermillion			
	KPRC 920 1000 R	St. Albans	WCWW 1500 100
KUSD 890 500	KTRH 1290 1000 C	WQDM 1390 1000	WGKV 1500 100
Vankton	KXYZ 1440 1000 B	Springfield	Clarksburg WBLK 1370 100
WNAX 570 1000 C	Huntsville	WNBX 1260 500 C	Fairmont 100
TENNESSEE	KSAM 1500 100	Waterbury	WMMN 890 500 C
	Kilgore	WDEV 550 500	Huntington
Bristol	KOCA 1210 100	VIRGINIA	WSAZ 1190 1000
WOPI 1500 100 Chattanooga	Laredo KPAB 1500 100	Ch = -1 - 44 211 -	Parkersburg
WAPO 1420 100		Charlottesville WCHV 1420 100	WPAR 1420 100 C
WDOD 1280 1000 C	Longview KFRO 1370 250M	Danville	Wheeling
Tackson	Lubbock	WBTM 1370 100	WWVA 1160 5000 C
WTIS 1310 100	KFYO 1310 100M	Harrisonburg	WISCONSIN
Johnson City	Lufkin	WSVA 550 500	
WJHL 1200 100	KRBA 1310 100	Lynchburg	Eau Claire
Knoxville	Midland	WLVA 1200 100	WEAU 1050 1000
WNOX 1010 1000 C	KRLH 1420 100	Newport News	Fond du Lac
WROL 1310 100 N	Palestine	WGH 1310 100	KFIZ 1420 100
Memphis	KNET 1420 100	Norfolk	Green Bay WHBY 1200 100
WHBQ 1370 100 WMC 780 1000 R	Pampa	WTAR 780 1000 N	WHBY 1200 100 WTAQ 1330 1000 C
	KPDN 1310 100	Petersburg	Janesville
VV IVI S 1700	Paris KPLT 1500 250M	1210 100	WCLO 1200 100
		Richmond	LaCrosse
Nashville WLAC 1470 5000 C	Pecos KIUN 1420 100	WBBL 1210 100 WMBG 1350 500 R	WKBH 1380 1000 C
WLAC 1470 5000 C WSIX 1210 100	Port Arthur		Madison
WSM 650 50000 N	KPAC 1260 500	WRNL 880 500 WRTD 1500 100 B	WHA 940 5000
	San Angelo	WRTD 1500 100 B WRVA 1110 5000 C	WIBA 1280 1000 N
TEXAS	KGKL 1370 100	Roanoke	Manitowoc
Abilene	San Antonio	WDBT 930 1000 C	WOMT 1210 100
KRBC 1420 100M	KABC 1420 100M		Milwaukee
Amarillo	KMAC 1370 100	WASHINGTON	WEMP 1310 100
KGNC 1410 1000 N	KONO 1370 100 _	Aberdeen	WISN 1120 250 C
Austin	KTSA 550 1000 C	KXRO 1310 100M	WTMJ 620 1000 N
KNOW 1500 100 C	WOAI 1190 50000 N	Bellingham	Povnette WIBU 1210 100
KIBO 1111	Sherman KRRV 1310 250	KVOS 1200 100M	WIBU 1210 100 Racine
Beaumont KEDM 560 500 N	111111	Centralia	WRJN 1370 100
KFDM 560 500 N KRIC 1410 100 M	Temple KTEM 1370 250M	KELA 1440 500M	Rice Lake
Big Spring	Texarkana	Everett KRKO 1370 50	WIMC 1210 250
KBST 1500 100M	KCMC 1420 100M	Longview	Sheboygan
Brady	Tyler	KWLK 780 250	WHBL 1300 250
KNEL 1500 250	KGKB 1500 100M	Olympia	Stevens Point
D	Vernon		WLBL 900 5000
Brownsville		K6Y 1210 100 M	
KGFI 1500 100	KVWC 1500 100	Pullman	Superior
KGFI 1500 100 College Station	KVWC 1500 100 Victoria	Pullman KWSC 1220 1000	WDSM 1200 100
KGFI 1500 100 College Station WTAW 1120 500	KVWC 1500 100 Victoria KVIC 1310 100	Pullman KWSC 1220 1000 Seattle	WDSM 1200 100 Wausau
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi	KVWC 1500 100 Victoria KVIC 1310 100 Waco	Pullman KWSC 1220 1000 Seattle KEEN 1370 100	WDSM 1200 100
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   WACO 1420 100 C	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C	WDSM 1200 100 Wausau WSAU 1370 100
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   WACO 1420 100 C   Weslaco	Pullman  KWSC 1220 1000  Seattle  KEEN 1370 100  KIRO 710 1000 C  KJR 970 5000 B	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   WACO 1420 100 C   Weslaco   KRGV 1260 1000 N	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING Casper
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   WACO 1420 100 C   Weslaco   KRGV 1260 1000 N   Wichita Falls	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C	KVWC 1500 100   Victoria   KVIC 1310 100   Waco WACO 1420 100 C   Weslaco KRGV 1260 1000 N   Wichita Falls   KWFT 620 250	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250	WDSM 1200 100 Wausau WSAU 1370 100
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   WACO 1420 100 C   Weslaco   KRGV 1260 1000 N   Wichita Falls	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton	KVWC 1500   100   Victoria   KVIC 1310   100   Waco   WACO 1420   100 C   Weslaco   KRGV 1260   1000 N   Wichita Falls   KWFT 620   250   UTAH	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100	KVWC 1500 100   Victoria   KVIC 1310 100   Waco WACO 1420 100 C   Weslaco KRGV 1260 1000 N   Wichita Falls   KWFT 620 250   UTAH   Cedar City	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KKFPY 890 1000 C	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 C KGA 1470 5000 B	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 EI Paso	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   Waco 1420 100 C   Weslaco KRGV 1260 1000 N   Wichita Falls   KWFT 620 250   UTAH   Cedar City   KSUB 1310 100   Logan   KVNU 1500 100   Ogden   Color   Co	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 M KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 El Paso KROD 1500 100	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau ZNS 540 400
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 El Paso KROD 1500 100 KTSM 1310 100 N	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 EI Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 N	KVWC 1500   100   Victoria   KVIC 1310   100   Waco   WACO 1420   100 C   Weslaco   KRGV 1260   1000 N   Wichita Falls   KWFT 620   250     UTAH     Cedar City   KSUB 1310   100   Logan   KVNU 1500   100   Ogden   KLO 1400   500 B   Price   KEUB 1420   100	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 C	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau ZNS 540 400  CANADA
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 EI Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 N WDAH 1310 100 Fort Worth	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau ZNS 540 400  CANADA ALBERTA
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 EI Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100 M	KVWC 1500 100   Victoria   KVIC 1310 100   Waco   Waco 1420 100 C   Weslaco   KRGV 1260 1000 N   Wichita Falls   KWFT 620 250   UTAH   Cedar City   KSUB 1310 100   Logan   KVNU 1500 100 Ogden   KLO 1400 500 B   Price   KEUB 1420 100   Salt Lake City   KDYL 1290 1000 R	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100 BAHAMAS Nassau ZNS 540 400  CANADA ALBERTA Calgary
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRA 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 El Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100 M KGKO 570 1600 B KTAT 1240 1000M	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100 BAHAMAS Nassau ZNS 540 400  CANADA  ALBERTA  Calgary CFAC 930 1000 F
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 E1 Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100M KGKO 570 100M KGKO 570 100M KGKO 570 100M KGKO 570 1000 B KTAT 1240 1000M WBAP 800 50000 N	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KIT 1250 250 M	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100 BAHAMAS Nassau ZNS 540 400  CANADA ALBERTA  Calgary CFAC 930 1000 F CFCN 1030 10000
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 EI Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 N WDAH 1310 100 N Fort Worth KFJZ 1370 1000 B KTAT 1240 1000M WBAP 800 50000 N Galveston	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Taccoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KIT 1250 250 M WEST VIRGINIA	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100 BAHAMAS Nassau ZNS 540 400  CANADA ALBERTA  Calgary CFAC 930 1000 F CFCN 1030 10000 CJCJ 690 100 F
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 E1 Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100M KGKO 570 1000 B KTAT 1240 1000 M KGKO 570 1000 B KTAT 1240 1000 M WBAP 800 50000 N Galveston KLUF 1370 100 M	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KIT 1250 250M WEST VIRGINIA Bluefield	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau ZNS 540 400  CANADA  ALBERTA  Calgary CFAC 930 1000 F CFCN 1030 10000 F CFCN 1030 1000 F Edmonton
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 E1 Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100M KGKO 570 1000 B KTAT 1240 1000M WBAP 800 500000 N Galveston KLUF 1370 100M Galveston KLUF 1370 100M	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHO 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KIT 1250 250M WEST VIRGINIA Bluefield WHIS 1410 500	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau ZNS 540 400  CANADA ALBERTA  Calgary CFAC 930 1000 F CFCN 1030 10000 CJCJ 690 100 F Edmonton CFRN 960 100 F
KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100M Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M Denton KDNT 1420 100 Dublin KFPL 1310 100 E1 Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100M KGKO 570 1000 B KTAT 1240 1000 M KGKO 570 1000 B KTAT 1240 1000 M WBAP 800 50000 N Galveston KLUF 1370 100 M	KVWC 1500	Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250 Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KIT 1250 250M WEST VIRGINIA Bluefield	WDSM 1200 100 Wausau WSAU 1370 100  WYOMING  Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100  BAHAMAS Nassau ZNS 540 400  CANADA  ALBERTA  Calgary CFAC 930 1000 F CFCN 1030 10000 F CFCN 1030 1000 F Edmonton

Grande Prairie

BRIT. COLUMBIA

100

100 F

CFGP 1200

CIOC

Lethbridge

5000

150

500

5000

250

150

730 10000

810

1500

1110

1030

850

1200

CMCF CMCG

CMCJ CMCK CMCL

CM CM CM CO CM CO

#### NORTH AMERICAN B. C. STATIONS BY LOCATIONS

50

100 F

100 F

500 F

CRCK

Rimouski

CIBR 1030

Sherbrooke CHLT 1210

CHLN 1420

Three Rivers

950

1000 F

1000 F

100

100

Cobalt

CKPR

CKMC 1210 Fort William

Hamilton

CHML 1010 CKOC 1120

Kenora CKCA 1420

730

Chilliwack	Kenora		CM CO 1200 150
CHWK 780 100 F	CKCA 1420 100		CMCR 1380 150
Kamloops	Kingston	SASKATCHEWAN	CMCU 1290 150
CFJC 880 1000 F	CFRC 1510 100 F		CMCW 1140 150
Kelowna	London	Moose Jaw	CMCX 1380 150
CKOV 630 100 F	CFPL 730 100 F	CHAB 1200 100 F	CM CY 570 10000
Prince Rupert	North Bay	Prince Albert	CMK 720 250
CFPR 580 50	CFCH 930 100 F	CKBI 1210 100 F	CMOA 1440 250
Trail	CJKL 1310 100 F CKGB 1420 100 F	Regina	CMOX 1320 200
CJAT 910 1000 F	CKGB 1420 100 F Ottawa	CJRM 540 1000 F	CMQ 600 25000
Vancouver	CRO 880 1000 F	CKCK 1010 1000 F	CMW 880 1400
CBR 1100 5000 F	CKCO 1010 1000 F	Saskatoon	CMX 920 1000
CJOR 600 500	Owen Sound	CFQC 840 1000 F Yorkton	Holguin
CKCD 1010 100	1370 100	CJGX 1390 100 F	CMKF 1460 250 CMKO 1280 200
CKFC 1410 50	Prescott	C)GA 1390 100 F	CMKO 1280 200 Manzanillo
CKMO 1410 100	CFLC 930 100		CMKM 1120 100
CKWX 1010 100	St. Catharines	COSTA RICA	Matanzas
Victoria	CKTB 1200 100 F	San Jose	CMGC 1400 200
CFCT 1450 500	Sault Ste. Marie	T1PG 625 2000	CMGF 1120 75
	C  IC 1500 100 F	TIX 650 1000	CMGH 790 250
MANITOBA	Stratford	1111 000 1000	Moron
D . 1	CJCS 1210 50	CUBA	CMIP 1430 75
Brandon CKX 1120 1000 F	Sudbury	CUBA	Palma Soriano
Flin Flon	CKSO 780 1000 F	Bayamo	CMKZ 1430 125
CFAR 1370 100	Toronto CBL 840 50000 F	CMKL 990 200	Pinar del Rio
Winnipeg	CFRB 690 10000 C	Caibarien	CMAB 1340 100
CJRC 630 500 F	CKCL 580 100 F	CMHD 1270 250	Sagua la Grande
CKY 910 15000 F	CRCY 960 100 F	Camaguey	CMHA 1070 50
	Waterloo	CMJA 1010 250	Sancti Spiritus CMHB 1240 50
NEW BRUNSWICK	CKCR 1510 100	CMJC 1390 200	CMHB 1240 50 Santa Clara
NEW BRUNSWICK	Windsor	CMJE 1220 50	CMHI 1210 250
Fredericton	CKLW 1030 5000 F	CMJF 1150 200 CMJK 1290 200	CMHW 820 500
CFNB 550 500 F	Wingham	CMTW 1340 300	Santiago
Moncton	CKNX 1200 100	CMIX 830 150	CMKC 1250 150
CKCW 1370 100 F		Cardenas	CMKD 1050 1000
Sackville	PRINCE EDWARD	CMGE 1370 200	CMKG 1160
CBA 50000	ISLAND	Ciego de Avila	CM KQ 1490 200
St. John	ISLAND	CMJH 1360 200	CMKR 1400 250
CHSJ 1120 500 F	01 1	CMJI 1130 150	CMKW 1350
N. W. TERRITORY	Charlottetown CFCY 630 1000 F	CMJO 1180 50	CMKX 1190 75
	CHCK 1310 50	Cienfuegos	DOM 41 N/4 G 4 N/
Aklavik	Summerside	CMHJ 1160 100	DOMINICAN
CJCU 1210 50	CHGS 1450 50 F	CMHM 1450 150	REPUBLIC
NOVA SCOTIA	CHG5 1450 501	CMHX 1300 200 Cruces	Ciudad Trujillo
		CMHK 1330 250	HIN 1090 740
Glace Bay	QUEBEC	Guantanamo	HIT 1050 50
VAS 685 2000		CMKS 960 60	HIX 800 800
Halifax CHNS 930 1000 F	Chicoutimi	Havana	EL SALVADOR
Sydney	CRCS 1120 100 F	CMBC 950 150	San Salvador
CICB 1240 1000 F	Hull	CMBD 1260 500	YSS 640 500
Wolfville	CKCH 1210 100 F	CMBF 770 5000	
CKIC 1010 50	Montreal	CMBG 1440 225	GUATEMALA
Yarmouth	CBF 910 50000 N	CMBL 750 500	Guatemala City
CJLS 1310 100 F	CBM 1050 5000 F	CMBQ 680 5000	TGW 1520 1000
	CFCF 600 500 B CHLP 1120 100 F	CMBS 1170 150	TGX 1400
ONTARIO	CKAC 730 5000 C	CMBX 1070 150	TG1 1320
UNIARIO	New Carlisle	CMBY 970 200 CMBZ 1000 500	Quezaltenango
Brantford	CHNC 960 1000 F	CM BZ 1000 500 CM C 1260 150	TGQ 1450 200
CKPC 930 100 F	Quebec	CM CA 1350 450	HONDURAS
Chatham	CHRC 580 100	CMCB 1230 150	Tegucigalpa
CFCO 630 100 F	CKCV 1310 100 F	CM CD 630 250	HRN 1250 50
-		232 000 200	12217 1230 30

MEXICO	Villa Acuna	JALISCO	Nuevo Laredo
	XEDH 1340 200		XEBK 1080 100
AGUASCALIENTES	XERA 840 250000	Guadalajara	XEDF 810 100
		XED 1160 2500	XEFE 980 250
Aguascalientes	D. F.	Guzman	XENT 910 150000
XEB1 1000 25	D. 1.	XEBA 1080 20	Revnosa
BAJACALIFORNIA	Gral. Anaya XEDA 1220 200	MICHOACAN	XEAW 960 100000 Tampico
	Mexico City	Morelia	XEFW 1310 300
Mexicali	XEAI 1250 500	XEI 1370 125	XES 990 250
XEAA 750 200	XEAL 660 1000		ALS
XEAO 660 250		NUEVO LEON	
Rosarito Beach			VERACRUZ
XERB 730 100000		Monterrey	VERACRUZ
Tijuana		XEFB 870 200	Cordoba
XEÁC 980 1000	XEDP 1080 500	XEG 1230 250	XEAG 1310 10
XEAU 1320	XEFO 940 5000	XEH 720 250	Jalapa
XEBG 820 1000	XEJP 1130 100	XET 690 5000	XEXB 1270 250
XEC 1150 100	XEJW 870 500	XEX 1310 125	XEXD 1340 350
XELO 580 10000	XEK 890 100		Minatitlan
XEMO 860 5000	XEL 1100 250	PUEBLA	XEDW 1150 20
XEOK 760 2500	XELZ 1370 100		77 77 71 7100
XEOK 760 2500	XEMX 1280 100	Puebla	Veracruz XETE 1220 12
	XEN 780 1000	XETH 1210 100	ALLIA AND
CHIHUAHUA	XENC 860 50	2411 + 1112 DOMOGE	XEU 1010 250
	XEO 710 50000	SAN LUIS POTOSI	
Chihuahua	Mexico City, D. F.		YUCATAN
XEBU 1200 50	XEW 890 50000	San Luis Potosi	
XEFI 1440 250	1 21 22 2	XECZ 1370 100	Merida
Juarez		XEXH 1250 250	XEFC 550 100
XĚF 1450 100			XEME 1240 50
XEFV 1210 100	XEXX 1170 1000	SINALOA	XEZ 630 500
XEI 1020 1000	XEYO 610 500	Mazatlan	1
XEP 1160 500	Tacuba		
Parral	NEFA 1180 500	XEBL 1220 50	ZACATECAS
XEAT 1210 250	Texcoco _	SONORA	
	NEXE 1270 17	SUNUKA	Zacatecas
			XEAZ 1230 200
	DURANGO	Cananea	A COULT ON
COAHUILA		XEFQ 1010 50	MIQUELON
Piedras Negras	Durango XEBP 1150 250	Hermosillo	St. Pierre
		XEBH 930 500	FON 609 250
	XEE 1210 50	Nogales	
		XEAF 990 750	NEWFOUNDLAND
Sabinas	GUANAJUATO	Obregon	
XEBX 640 250		XEAP 1340 50	St. John's VOAC 1065 40
Saltillo	Irapuato		10110
XEAS 1160 100	XEBO 1310 25	TAMAULIPAS	VOCM 1006 200
XELA 1240 50	Leon		VOGY 840 400
Torreon	XEFM 1160 20	Matamoros	VONF 1195 500
XETB 1310 125	XEKL 1240 500	XEAM 750 25	VOWR 681 500

#### QSA AND R CODES

The R code describes the volume with which a signal is heard.

R1 is a signal that is barely perceptible.

R2 is a very weak signal.

R3 is a weak signal.

R4 are signals of fair volume.

R5 are fairly good signals.

R6 are good signals.

R7 are inderately strong signals.

R8 are strong signals.

R9 are extremely strong signals.

The QSA Code is used to describe the understandability of a station's signal.

QSA1 is a signal that is unreadable.

QSA2 is one that is barely perceptible. A word can be understood now and then.

QSA3 is understandable with difficulty.

QSA4 is a signal that can be understood with practically no difficulty.

QSA5 is perfectly understandable.

	NORTH AM	ERICA	N B. C. STATION	g RV	CATTO	
	CBA 50000			3 <u> D I</u>	<b>¬</b> ~	
1	Sackville, N. B.	1	CHWK 780 100 Chilliwack, B. C.		CKOV 630	_ 100
	CBF 910 50000	$\vdash$	CJAT 910 1000	<del></del>	Kelowna, B. CKPC 930	C. 100
	Montreal, P. Q.		Trail, B. C.		Brantford, Or	
Ì	CBK 50000		CJBR 1030 1000		CKPR 730	100
	CDT		Rimouski, P. Q.		Fort William,	Ont.
· [	CBL 840 50000 Toronto, Ont.	1	CJCA 730 1000		CKSO 780	1000
	CBM 1050 5000	<b>—</b>	Edmonton. Alta.		Sudbury, Ont	
1	Montreal, P. Q.		CJCB 1240 1000	1	CKTB 1200	100
	CBO 880 1000		Sydney, N. S.	<del></del>	St. Catharine	
L	Ottawa, Ont.	1	CJCJ 690 100 Calgary, Alta.		Edmonton, Al	500
	CBR 1100 5000		CICS 1210 50		CKWX 1010	100
<b>!</b>	Vancouver, B. C.	<u> </u>	Stratford, Ont.	Ĺ	Vancouver, B.	C 100
1	CFAC 930 1000		CJCU 1210 50		CKX 1120	1000
-	Calgary, Alta.		Aklavik, N. W. T.	<b>_</b>	Brandon, Man	١,
4	CFAR 1370 100	ł	CJGX 1390 100		CKY 910	15000
_	Flin Flon, Man. CFCF 600 500	<del></del>	Yorkton, Sask.	<u> </u>	Winnipeg, Ma	
1	Montreal, Que.	İ	CJIC 1500 100   S. Ste. Marie, Ont.	1	CMAB 1340	100
	CFCH 930 100		CJKL 1310 100	<b></b>	Pinar del Rio,	
	North Bay, Ont.	L	North Bay, Ont.	1	Havana, Cuba	150
1	CFCN 1030 10000		CJLS 1310 100		CMBD 1260	500
<u> </u>	Calgary, Alta.		Yarmouth, N. S.		] Havana, Cuba	300
1	CFCO 630 100	1	CJOC 950 100		[ CMBF 770	5000
<b> </b>	Chatham, Ont. CFCT 1450 500		Lethbridge, Alta.	<u> </u>	Havana, Cuba	
1.	Victoria, B. C.		CJOR 600 500 Vancouver, B. C.		CMBG 1440	225
	CFCY 630 1000		CIRC 630 500		Havana, Cuba CMBL 750	
	Charlottetown, P.E.I.		Winnipeg, Man.	i	Havana, Cuba	<b>50</b> 0
1	CFGP 1200 100		CJRM 540 1000		ICMED 880	5000
1	Grande Praire, Alta. CFJC 880 1000		Regina, Sask.	Ĺ	Havana, Cuba	
	Kamloops, B. C.	1	CKAC 730 5000		I CMBS 1170	150
<u> </u>	CFLC 930 100		Montreal, Que. CKBI 1210 100		Havana, Cuba CMBX 1070	
L	Prescott, Ont.	1	Prince Albert, Sask.	i	Havana, Cuba	150
	CFNB 550 500		CKCA 1420 50000	<del></del>	CMBY 970	200
<u> </u>	Fredericton, N. B. CFPL 730 100		Kenora, Ont.		Havana, Cuba	200
1	CFPL 730 100 London, Ont.	ĺ	CKCD 1010 100		CMBZ 1000	500
<b></b>	CFPR 580 50		Vancouver, B. C.		Havana, Cuba	
	Prince Rupert, B. C.		CKCH 1210 100 Hull, Que.		CMC 1260	150
	CFQC 840 1000		CKCK 1010 1000		Havana, Cuba CMCA 1350	
	Saskatoon, Sask,	į.	Regina, Sask.		Havana, Cuba	450
	CFRB 690 10000		CKCL 580 100		CM CB 1230	150
<u> </u>	Toronto, Ont. CFRC 1510 100		Toronto, Ont.		Havana, Cuba	-50
1	Kingston, Ont.		CKCO 1010 100		IUMICD 630	2 <b>5</b> 0
	CFRN 960 100	<u> </u>	Ottawa, Ont. CKCR 1510 100		Havana, Cuba CMCF 810	
	Edmonton, Alta.	ł	Waterloo, Ont.	ĺ	Havana, Cuba	<b>50</b> 00
	CHAB 1200 100		CKCV 1310 100	<del></del>	CMCG 1500	150
<u> </u>	Moose Jaw, Sask.		Quebec, Que.	ŀ	Havana, Cuba	150
	CHCK 1310 50				CMC  1110	500
<b>——</b>	Charlottetown, P.E.I. CHGS 1450 50	<u> </u>	Moncton, N. B.		Havana, Cuba	550
	Summerside, P.E.I.		CKFC 1410 50 Vancouver, B. C.		CMCK 1030	5000
	CHLN 1420 100	<del></del>	CKGB 1420 100		Havana, Cuba	
	Three Rivers, P. O.	1	North Bay, Ont.		CMCL 730 Havana, Cuba	10000
	CHLP 1120 100		CKIC 1010 50		CMCM 850	250
L	Montreal, Que.		Wolfville, N. S.		Havana, Cuba	<b>25</b> 0
	CHLT 1210 100		CKLW 1030 5000		LMCO 1200	150
	Sherbrooke, P. Q. CHML 1010 100		Windsor, Ont.		Hayana, Cuba	-00
	Hamilton, Ont.		CKMC 1210 50		CM CO 1410	5000
	CHNC 960 1000		Cobalt, Ont. CKMO 1410 100		Havana, Cuba	
	New Carlisle, Que,		Vancouver, B. C.		CMCR 1380	150
	CHNS 930 1000		CKNX 1200 100		Havana, Cuba CMCU 1290	1.50
	Halifax, N. S.		Wingham, Ont.		Havana, Cuba	150
	CHRC 580 100		CKOC 1120 500		CMCW 1140	150
$\vdash$	Quebec, P. Q. CHSJ 1120 500	<u> </u>	Hamilton, Ont.		Havana, Cuba	
] [	St. John, N. B.					
	J,, D,					

	NOKIH AMEI	CICAL	B. C. STATIONS	D <sub>1</sub>	VYLLO
	CMCX 1380 150		CMKR 1400 250		KBPS 1420 100
	Havana, Cuba		Santiago, Cuba		Portland, Ore.
	CMCY 570 10000		CMKS 960 60		KBST 1500 100
25.	Havana, Cuba		Guantanamo, Cuba		Big Spring, Texas
	CMGC 1400 200		CMKW 1350	- 1	KBTM 1200 100
	Matanzas, Cuba CMGE 1370 200		Santiago, Cuba CMKX 1190 75		Jonesboro, Ark.
	Cardenas, Cuba		Santiago, Cuba		KCKN 1310 100
	CMGF 1120 75		CMKZ 1430 125		Kansas City, Kans. KCMC 1420 100
	Matanzas, Cuba		Palma Soriano, Cuba		Texarkana, Texas
100	CMGH 790 250		CMOA 1440 150		KCMO 1370 100
	Matanzas, Cuba		Havana, Cuba		Kansas City, Mo.
	CMHA 1070 50		CMOX 1320 200		KCRC 1360 250
	Sagua la Grande, Cuba		Havana, Cuba		Enid, Okla.
	CMHB 1240 50		CMQ 600 25000		KCRJ 1310 100
	Sancti Spiritus, Cuba		Havana, Cuba		Jerome, Ariz.
	CMHD 1270 250		CMW 880 1400		KDAL 1500 100
	Caibarien, Cuba CMHI 1210 250		Havana, Cuba		Duluth, Minn.
	Santa Clara, Cuba		CMX 920 1000		KDB 1500 100
	CMHJ 1160 100	4	Havana, Cuba CRCK 950 1000		Santa Barbara, Calif.
	Cienfuegos, Cuba				KDFN 1440 500
	CMHK 1330 250		Quebec, Que. CRCS 1120 100		Casper, Wyo. KDKA 980 50000
]	Cruces, Cuba		Chicoutimi, Que.		Pittsburgh, Pa.
	CHHM 1450 500		CRCY 960 100		LKDIR 1210 100
	Cienfuegos, Cuba		Toronto, Ont.		Devils Lake, N. D.
	CMHW 820 100		FQN 609 250		KDNC 1200 100
	Santa Clara, Cuba		St. Pierre, Miquelon		Lewistown, Mont.
	CMHX 1300 200	1	HIN 1090 740	1	KDNT 1420 100
	Cienfuegos. Cuba CMJA 1010 250		Ciudad Trujillo, D. R.	<u> </u>	Denton, Texas KDON 1210 100
	Camaguey, Cuba		HIT 1050 50 Ciudad Trujillo, D. R.	1	KDON 1210 100
	CMJC 1390 200		HIX 800 800	<del> </del>	Monterey, Calif. KDTH 1340 500
	Camaguey, Cuba		Ciudad Trujillo, D. R.	1	Dubuque, Iowa
	CMJE 1220 50		HP50 1440		KDYL 1290 1000
	Camaguey, Cuba		Panama City, Panama		Salt Lake City, Utah
	CMJF 1150 200		HRN 1250 50		KECA 1430 1000
	Camaguey, Cuba		Tegucigalpa, Hon.		Los Angeles, Calif.
	CMJH 1360 200		KABC 1420 100		KEEN 1370 100
	Ciego de Avila, Cuba CMJI 1130 150	_	San Antonio, Texas KABR 1390 500		Seattle, Wash.
	Ciego de Avila, Cuba		Aberdeen, S. Dak.		Los Angeles, Calif.
-	CMJK 1290 200	-	KADA 1200 100		KELA 1440 500
1	Camaguey, Cuba	1	Ada, Okla.		Centralia, Wash.
_	CMJO 1180 50		KALB 1210 100		KELD 1370 100
	Ciego de Avila, Cuba		Alexandria, La.		El Dorado, Ark.
	CMJP 1430 75		KALE 1300 1000		KELO 1200 100
	Camaguey, Cuba		Portland, Ore.		Sioux Falls, S. Dak.
	CMJW 1340 300		KAND 1310 100	1	KERN 1370 100
	Camaguey, Cuba		Corsicana, Texas KANS 1210 100		Bakersfield, Calif.
	CMJX 830 150		Wichita, Kans		KEUB 1420 100
	Camaguey, Cuba CMK 720 250		KARK 890 500		Price, Utah KEX 1180 5000
1	Havana, Cuba		Little Rock, Ark.		Portland, Ore.
	CMKC 1250 150	-	KARM 1310 100		KFAB 770 10000
	Santiago, Cuba		Fresno, Calif.		Lincoln, Neb.
	CMKD 1050 1000		KASA 1210 100		KFAC 1300 1000
500	Santiago, Cuba		Elk City, Okla.		Los Angeles, Calif.
	CMKF 1460 250		KAST 1370 100		KFAM 1420 100
	Holguin, Cuba		Astoria, Ore.		St. Cloud, Minn.
	CMKG 1160		KATE 1420 250		KFAR 610 1000
-	Santiago, Cuba CMKL 990 200		Albert Lea, Minn.	<b></b>	Fairbanks, Alaska KFBB 1280 1000
	Bayamo, Cuba		Gallup, N. Mex.		Great Falls, Mont.
-	CMKM 1120 100	-	KBIX 1500 100	<b>—</b> —	KFBI 1050 5000
	Manzanillo, Cuba		Muskogee, Okla.	1	Abilene, Kans.
	CMKO 1280 200		KBKR 1500 100		KFBK 1490 10000
	Holguin, Cuba		Baker, Ore.	L	Sacramento, Calif.
	CMKQ 1490 200	-	KBND 1310 100		KFDM 560 500
	Santiago, Cuba		Bend, Ore.		Beaumont, Texas
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	KFDY 780 1000		KFYR 550 1000		KGLU 1420 100
	Brookings, S. D.		Bismarck, N. D.		Safford, Ariz.
	KFEL 920 500		KGA 1470 5000		KGMB 1320 1000
-	Denver, Colo.		Spokane, Wash.		Honolulu, T. H.
	KFEQ 680 2500		KGAR 1370 100	Į .	KGNC 1410 1000
-	St. Joseph, Mo. KFGQ 1370 100		Tucson, Ariz.		Amarillo, Texas
	Boone, Iowa		KGB 1330 1000		KGNF 1430 1000 North Platte, Neb.
	KFH 1300 1000		San Diego, Calif. KGBU 900 500		KGNO 1340 / 250
	Wichita, Kans.		Ketchikan, Alaska		Dodge City, Kans.
	KFI 640 50000		KGBX 1230 500		KGO 790 7500
	Los Angeles, Calif.		Springfield, Mo.		San Francisco, Calif.
	KFIO 1120 100		KGCA 1270 100		KGU 750 2500
	Spokane, Wash.		Decorah, Towa		Honolulu, T. H.
	KFIZ 1420 100		KGCI 1200 100		KGVL 1200 100
	Fond du Lac, Wis.		Coeur d'Alene, Idaho		Greenville, Texas
	KFJB 1200 100		KGCU 1240 250		KGVO 1260 1000
	Marshalltown, Iowa KFJI 1210 100		Mandan, N. D.		Missoula, Mont.
1	Klamath Falls, Ore.		KGCX 1450 1000		KGW 620 1000
	KFIM 1410 500		Wolf Point, Mont.		Portland, Ore.
	Grand Forks, N. D.		KGDE 1200 100 Fergus Falls, Minn.		KGY 1210 100
	KFJZ 1370 100		KGDM 1102	_	Olympia, Wash.
	Fort Worth, Texas		KGDM 1100 1000 Stockton, Calif.		KHBC 1400 250 Hilo, T. H.
	KFKA 880 500		KGEK 1200 100		KHBG 1210 100
	Greeley, Colo.		Sterling, Colo.		Okmulgee, Okla,
	KFKU 1220 1000		KGER 1360 1000		KHJ 900 1000
	Lawrence, Kans. KFNF 890 500		Long Beach, Calif.		Los Angeles, Calif.
	KFNF 890 500 Shenandoah, Iowa		KGEZ 1310 100		KHQ 590 1000
	KFOR 1210 100		Kalispell, Mont.		Spokane, Wash.
	Lincoln, Neb.		KGFF 1420 100		KHSL 1260 250 Chico, Calif.
	KFOX 1250 1000		Shawnee, Okla. KGFI 1500 100		KHUB 1310 250
l	Long Beach, Calif.		Brownsville, Tex.		Watsonville, Calif.
	KFPL 1310 100		KGFJ 1200 100		KICA 1370 100
	Dublin, Texas		LOS Angeles Calif		Clovis, N. M.
	KFPW 1210 100 Fort Smith, Ark.		KGFL 1370 100 Roswell, N. Mex. KGFW 1310 100		KID 1320 500
	KFPY 890 1000		Roswell, N. Mex.		Idaha Fails, Idaho
1 1	Spokane, Wash.		KGFW 1310 100		KIDO 1350 1000
	KFQD 780 250	_	Nearney Neb		Boise, Idaho KIDW 1420 100
	Anchorage, Alaska		KGFX 630 200 Pierre. S. D. KGGF 1010 1000		Lamar, Colo.
	KFRC 610 1000		KGGF 1010 1000	-	KIEM 1450 500
	San Francisco, Calif.		Coffeyville, Kans.		Eureka, Calif.
1	KFRO 1370 250		KGGM 1230 1000		KIEV 850 250
	Longview, Texas KFRU 630 500		Albuquerque N M		Glendale, Calif.
	Columbia, Mo.		KGHF 1320 500		KINY 1310 100
	KFSD 600 1000		KGHF 1320 500 Pueblo, Colo. KGHI 1200 100		Juneau, Alaska KIRO 710 1000
	San Diego, Calif.		KGHI 1200 100 Little Rock, Ark.		Seattle, Wash.
	KFSG 1120 500	-	KGHL 780 1000		KIT 1250 250
	Los Angeles, Calif.		Billings, Mont.		Yakima, Wash.
	KFUO 550 500		KGIR 1340 1000		KITE 1530 1000
	St. Louis, Mo. KFVD 1000 1000		Butte, Mont. KGIW 1420 100		Kansas City, Mo.
	Los Angeles, Calif.		KGIW 1420 100		KIUL 1210 100
	KFVS 1210 100		Alamosa, Colo.	\	Garden City, Kans. KIUN 1420 100
	Cape Girardeau, Mo.		KGKB 1500 100		KIUN 1420 100 Pecos, Texas
	KFWB 950 1000		KGKB 1500 100 Tyler. Texas KGKL 1370 100		KIUP 1370 100
	Los Angeles, Calif.		San Angelo, Texas		Durango, Colo.
	KFXD 1200 100		KGKO 570 1000		KJBS 1070 500
	Nampa, Idaho		Fort Worth, Texas		San Francisco, Calif.
	KFXJ 1200 100		KGKY 1500 100	T I	KJR 970 5000
	Grand Junction, Colo. KFXM 1210 100		Scottsbluff, Neb.		Seattle, Wash.
	San Bernardino, Calif.		KGLO 1210 100		KLAH 1210 100 Carlsbad, N. Mex.
	KFYO 1310 100		Mason City, Iowa		KLBM 1420 100
	Lubbock, Texas				La Grande, Ore.
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			C =	<del></del> -	
	KLCN 1290 100		KOMA 1480 5000	' <b>!</b>	KRMD 1310 100
	Blytheville, Ark.		Oklahoma City, Okla.		Shreveport, La.
	KLO 1400 500		KOME 1310 250		KRNR 1500 100
	Ogden, Utah		Tulsa, Okla.		Roseburg, Ore.
	KLPM 1240 250	1	KOMO 920 1000		KRNT 1320 1000
	Minot, N. D.		Seattle, Wash. KONO 1370 100		Des Moines, Iowa
	KLRA 1390 1000		KONO 1370 100	1 1	KROC 1310 100
1 1	Little Rock, Ark.		San Antonio, Texas		Rochester, Minn.
	KLS 1280 250		KOOS 1200 100		KROD 1500 100
	Oakland, Calif.		Marshfield, Ore.		El Paso, Texas
	KLUF 1370 100		KORE 1420 100		KROW 930 1000
1 -1	Galveston, Texas	_	Eugene, Ore.	1 1	Oakland, Calif.
	KLX 880 1000		KOTN 1500 100		KROY 1210 100
	Oakland, Calif.		Pine Bluff, Ark.		Sacramento, Calif.
	KLZ 560 1000		KOVC 1500 100		KRQA 1310 100
			Valley City, N. Dak.		Santa Fe, N. Mex.
	Denver, Colo. KMA   930 1000		KOY 1390 1000		KRRV 1310 250
1 1	Shenandoah, Iowa		Phoenix, Ariz.	1 !	Sherman, Texas
	KMAC 1370 100		KPAB 1500 100		KRSC 1120 250
	San Antonio, Texas	1	Laredo, Texas		Seattle, Wash.
$\vdash$	KMBC 950 1000		KPAC 1260 500		
1	Kansas City, Mo.		Port Arthur, Texas		
	KMED 1410 250		KPDN 1310 100		Manhattan, Kans. KSAL 1500 100
			Pampa, Texas		Colina Vone
	Medford, Ore.		KPFA 1210 100	$\overline{}$	Salina, Kans.
	KMJ 580 1000		Helena, Mont.		KSAM 1500 100
	Fresno, Calif.		KPLC 1500 100		Hunsville, Texas
	KMLB 1200 100	1	Lake Charles, La.	i	KSAN 1420 100
	Monroe, La.		KPLT 1500 250		San Francisco, Calif.
1	KMMJ 740 1000	Į.	Davis Texas		KSCJ 1330 1000
	Clay Center, Neb.	-	Paris, Texas KPMC 1550 1000		Sioux City, Iowa
1	KMO 1330 1000	1	Bakersfield, Calif.	1	KSD 550 1000
	Tacoma, Wash.		KPO 680 50000	ļ	St. Louis, Mo.
	KMOX 1090 50000		San Francisco, Calif.	i	KSEI 900 250
	St. Louis, Mo.		KPOF 880 1000	i	Pocatello, Idaho
	KMPC 710 500	1			KSFO 560 1000
	Beverly Hills, Calif.		Denver, Colo. KPPC 1210 100		San Francisco, Calif.
	KMTR 570 1000	1	1111		KSL 1130 50000
	Los Angeles, Calif.		Pasadena, Calif.		Salt Lake City, Utah
	KNTET 1500 250			1	KSLM 1370 100
	Brady, Texas	1	Wenatchee, Wash. KPRC 920 1000		Salem, Ore.
1	KNET 1420 100	1	KPRC 920 1000 Houston, Texas		KSO 1430 500
<u> </u>	Palestine, Texas		KOV 1380 500		Des Moines, Iowa
	KNOW 1500 100			1	KSOO 1110 5000
	KNOW 1500 100 Austin, Texas		Pittsburgh, Pa.		Sioux Falls, S. Dak.
	KNX 1050 50000	1			KSRO_1310100
	Los Angeles. Canf.		San Jose, Calif.		Santa Rosa, Calif.
	KOA 830 50000		KRBA 1310 100		KSTP 1460 10000
-	Denver, Colo.		Lufkin, Texas	<u> </u>	St. Paul, Minn.
1	KOAC 550 1000		KRBC 1420 100		KSUB (310 100
<u></u>	Corvallis, Ore.		Abilene, Texas KRBM 1420 100		Cedar City, Utah
	Corvallis, Ore. KOAM 790 1000		KRBM 1420 100	_	KSUN 1200 100
	Pittsburg, Kans.		Bozeman, Mont.		Lowell, Ariz.
1	KOB 1180 10000		KRE 1370 100		KTAR 620 1000
	Albuquerque, N. M.		Berkeley, Calif.		Phoenix, Ariz.
	KOBH 1370 100		KRGV 1260 1000		KTAT 1240 1000
	Rapid City, S. Dak.	- 93	Weslaco, Texas		Fort Worth, Texas
	KOCA 1210 100		KRIC 1420 100		KTBC 1120 1000 Austin, Texas
1	Kilgore, Texas		Beaumont, Texas	L	Austin, Texas
	KOCY 1310 100		KRIS 1330 _500		KIBS 1430 1000
1	Oklahoma City, Okla.		Corpus Christi, Tex.		Shreveport, La.
	KOH 1380 500		KRKD 1120 500		KTEM 1370 250
	Reno, Nev.	1	Los Angeles, Calif.		Temple, Texas
	KOIL 1260 1000		1 KRKO 1370 50		KTFI 1240 1000
i	Omaha, Neb.	1	Everett, Wash.		Twin Falls, Idaho
	KOIN 940 1000		KRLC 1390 250		KTHS 1060 10000
	Portland, Ore.		Lewiston, Idaho		Hot Springs, Ark.
	KOKO 1370 100		KRLD 1040 10000		KTKC 1190 250
	La Junta, Colo.		Dallas, Texas		Visalia, Calif.
	KOL 1270 1000	_	KRLH 1420 100		KTMS 1220 500
	Seattle, Wash.		Midland, Texas		Santa Barbara, Calif.
	Scattle, Wash.	-	KRMC 1370 100	<b></b>	Cullin Darbara, Calli,
			Jamestown, N. Dak.		
	1		1 Jamestona, 14. Dak.		-

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	KTOK 1370 100	1	KWJJ 1040 500		WAAT 940 500
	Oklahoma City, Okla.		Portland, Ore. KWK 1350 1000		Jersey City, N. J. WAAW 660 500
	KTRB 740 250 Modesto, Calif.		St. Louis, Mo.		Omaha, Neb.
	KTRH 1290 1000		KWKH 1100 10000		WABC 860 50000
	Houston, Texas	1	Shreveport, La.	1	New York, N. Y.
	KTRI 1420 100		KWLC 1270 100		WABI 1200 100
	Sioux City, Iowa		Decorah, Iowa		Bangor, Maine
	KTSA 550 1000		KWLK 780 250		WABY 1370 100
	San Antonio, Texas		Longview, Wash.	-	Albany, N. Y. WACO 1420 100
	KTSM 1310 100		KWNO 1200 250		WACO 1420 100 Waco, Texas
	El Paso, Texas KTUL 1400 1000		Winona, Minn. KWOC 1310 100		WADC 1320 1000
	Tulsa, Okla.		Poplar Bluff, Mo.		Akron, Ohio
112	KTW 1220 1000		KWOS 1310 100		WAGA 1450 500
	Seattle, Wash,		Jefferson City, Mo.		Atlanta, Ga. WAGF 1370 250
	KUJ 1370 100	1	KWSC 1220 1000		WAGE 1370 250
	Walla Walla, Wash. KUMA 1420 100	$\vdash$	Pullman, Wash. KWTO 560 5000		Dothan, Ala. WAGM 1420 100
	Yuma, Ariz.		Springfield, Mo.		Presque Isle, Me
	KUOA 1260 5000		KWYO 1370 100		WAIM 1200 100
	Siloam Springs, Ark.		Sheridan, Wyo.		Anderson, S. C.
	KUSD 890 500		KXA 760 250		WAIR 1250 250
	Vermillion, S. Dak. KUTA 1500 100	<b></b>	Seattle, Wash. KXL 1420 100		Winston-Salem, N. C. WALA 1380 500
	Salt Lake City, Utah		Portland, Ore.		Mobile, Ala. 500
	KVAK 1420 100		KXO 1500 100		WALR 1210 100
	Atchison, Kans.		El Centro, Calif.		Zanesville Ohio
	KVCV 1200 100	1	KXOK 1250 1000		WAML 1310 100
	Redding, Calif. KVEC 1200 100	<b>——</b>	St. Lotris, Mo. KXRO 1310 100		Laurel, Miss. WAPI 1140 5000
	San Luis Obispo, Cal.	ì	Aberdeen, Wash.		Birmingham, Ala.
	KVGB 1370 100		KXYZ 1440 1000		WAPO 1420 100
	Great Bend, Kans.		Houston, Texas		Chattanooga, Tenn
	KVI 570 1000		KYA 1230 1000		WARD 1400 500
	Tacoma, Wash. KVIC 1310 100		San Francisco, Calif. KYCA 1500 100		Brooklyn, N. Y. WASH 1270 500
	Victoria, Texas	ļ .	Prescott, Ariz.		Grand Rapids, Mich.
	KVNU 1500 100		KYOS 1040 250		WATL 1370 100
$\vdash$	Logan, Utah	L	Merced, Calif.		Atlanta, <b>Ga</b> .
1	KVOA 1260 1000		KYSM 1500 100		WATR 1190 100
	Tucson, Ariz. KVOD 920 500		Mankato, Minn. KYW 1020 10000		Waterbury, Conn. WAVE 940 1000
	KVOD 920 500 Denver, Colo.		Philadelphia, Pa.		Louisville, Ky.
	KVOE 1500 100		TGQ 1450 200		WAWZ 1350 500
	Santa Ana, Calif.		Quezaltenango. Guat.		Zarephath, N. J.
	KVOL 1310 100		TGW 1520 1000 Guatemala City, Guat.		WAYX 1200 100
<u> </u>	Lafayette, La. KVOO 1140 25000		TGX 1400	l	Wayeross, Ga. WAZL 1420 100
	KVOO 1140 25000 Tulsa, Okla.	i	Guatemala City, Guat.		WAZL 1420 100 Hazelton, Pa.
	KVOR 1270 1000		TG1 1320		WBAA 890 500
	Colo. Springs, Colo.	$oxed{oxed}$	Guatemala City, Guat.		West Lafavette, Ind
	KVOS 1200 100		TIX 650 1000 San Jose, Costa Rica		WBAL 760 2500
	Bellingham, Wash. KVOX 1310 100		VAS 685 2000	$\vdash$	Baltimore, Md. WBAL 1060 10000
	Moorhead, Minn,		Glace Bay, N.S.		WBAL 1060   10000   Baltimore, Md.
	KVRS 1370 100		VOAC 1065 40		WBAP 800 50000
	Rock Springs, Wyo.	$\Box$	St. John's Nfld.		Fort Worth, Texas
	KVSO 1210 100		VOCM 1006 200		WBAX 1210 100
	Ardmore, Okla. KVWC 1500 100	$\vdash$	St. John's Nfld. VOGY 840 400		Wilkes-Barre, Pa, WBBC 1400 500
	Vernon, Texas		St. John's Nfld.		Brooklyn, N. Y.
	KWBG 1420 100		VONF 1195 500		WBBL 1210 100
	Hutchinson, Kans.		St. John's Nfld.		Richmond, Va.
	KWEW 1500 100		VOWR 681 500		WBBM 770 50000
-	Hobbs, N. Mex. KWFT 620 250	<del></del>	St. John's Nild.		Chicago, Ill.
	Wichita Falls, Texas		WAAB 1410 500 Boston, Mass.		WBBR 1300 1000 Brooklyn, N. Y.
	KWG 1200 100		WAAF 920 1000		WBBZ 1200 100
	Stockton, Calif.		Chicago, Ill.		Ponca City, Okla.
	KWJB 1210 100				• • • • • • • • • • • • • • • • • • • •
1	Globe, Ariz.	L			

Bay City Mich   Baltimore, Md   WEBN 200   100   WCBS 1420   100   WDSM 1200   100   WDSM 1230   100   WDSM 12370   100   WCKP 1420   100   WEAF 66S 5000   WDSM 12370   100   WCKP 1420   100   WEAF 66S 5000   WCHV 1420   100   WEAF 66S 5000   WCKP 1490   10000   WEAF 66S 5000   WEAF 66S 5000   WCKP 1490   10000   WEAF 66S 5000   WEAF 1310   100   WEBD 1310   1		TI MINIER	TOMI			WDDC 1000 1000
WBEN   1900   WCBS   1420   100   WDSM   1200   Suprising Wis   WBEO   1310   100   WCCO   810   50000   WDSM   1205   100   WSPI   1200   100   WCFL   970   5000   WDSM   1370   100   WCHS   580   500   WDSM   1370   100   WCHY   1420   100   WCHY   1420   100   WEAT   660   500   Charlesten, W. Va.   WEAT   1370   100   WCKY   1490   10000   WCWY   1490   10000   WEWY Ork, N. Y.   WBLY   1210   100   WCLE   610   500   Cheveland, Ohio   WBNO   1200   WUSM   1310   100   WEBO   1210   WEBO   WE					1	WDRC 1330 1000
Buiffalo, N. Y.   WPED 1310	Bay City,	Mich.				
WEBO 1310 100   WCCO 810 50000   WDSU 1250 100   WSFH P 1200   WOFL 970 5000   WDSU 1250 100   WOFL 970 5000   WDSU 1250 100   WOFL 970 5000   WDSU 1250 100   WEAF 660 5000   WEB 6130 100   WEB 6120 100   WEB	WBEN 9	1000		11. 0		
Marquette, Mich.   Winneapolis, Minn.   New Orleans, La.   WDWS 1370   10   Charleston, W. Va.   WBLK 1370   100   Charleston, W. Va.   WBLY 1210   100   Charlottesville, Va.   WEAT 1300   WCY 1490   1000   New York, N. Y.   WBLY 1210   100   Clarksburg, W. Va.   Charlottesville, Va.   WEAT 1200   100   WEAT 1200   100   WEAT 1200   100   WEAT 1200   100   WBNO 1200   100   Cleveland, Ohio   WBNO 1200   100   WBNO 1200   100   WWW Orleans, La.   WBNN 1430   1000   Columbus, Ohio   WWW York, N. Y.   WBNN 1430   1000   Columbus, Ohio   WWW York, N. Y.   WBNN 1430   1000   WCM 1300   WCM 1300   WCM 1300   WCM 1300   WEAT 1300   WCM				Springheld, Ill.		
WBHP   1200   100					1	
Huntsville, Ala.   WBIG 1440 1000   Greensboro, N. C.   WBIL 1100 5000   WCHS 580 500   WDZ 1020 25	Marquette	Mich.				New Orleans, La.
WBIG 1440 1000   WCHS 580 500   WDZ 1020 25   Tuscola, III.	WBHP 12	200 100				
Charleston, N. Va.   WBL 1100   5000   New York, N. Y.   WBLK 1370   100   Charlottesville, Va.   WEAF 660   5000   New York, N. Y.   WBLK 1370   100   Covington, Ky.   WEAF 780   100   Providence, R. I.   WEAF 1050   100   Cleveland, Ohio   WBNO 1200   100   Cleveland, Ohio   WBNS 1430   1000   Columbus, Ohio   WBNS 1430   1000   New York, N. Y.   WBNN 1370   100   Buffalo, N. Y.   WBNS 1430   1000   New York, N. Y.   WBNS 1430   1000   New York, N. Y.   WBNS 1430   1000   New York, N. Y.   WBOO 860   59000   WCOA 1340   5000   New York, N. Y.   WBOO 860   59000   WCOA 1340   5000   WEED 1210   100   Charlesten, II.   WEED 1420   110   Chicago, III.   WEED 1420   110   Rocky Mount, N. Y.   WBOW 1310   100   WCOC 880   1000   Reading, Pa.   WEED 1300   Mounted the word of t	Huntsville					Champaign, Ill.
WBIL 1100   S000   New York, N. Y.	WBIG 14				1	
New York, N. Y.   WBUK 1370 100	Greensbore	o, N. C.		Charleston, W. Va.		
New York, N. Y.   WBLK 1370 100   Clarksburg, W. Va.   WCL 1490 10000   Providence, R. I.   WEL 1210 100   Covington, Ky.   WEL 1050 100   Dilum, Ohio   WCL 1200 100   Dilum, Ohio   WCL 1210 100   Dilum, Ohio   WCL 1210 100   Dilum, Minum, WER 1210 100   Dilum, Minum, M	WBIL 11	00 5000		WCHV 1420 100		
WBLK 1370	New York	, N. Y.				
WBLY 1210						
WBLY 1210						Providence, R. 1.
Lima Ohio   WENO 1200   100   New Orleans, La.   WENO 1200   100   Ianesville, Wis.   WEBC 1290   100   Ianesville, Wis.   WEBC 1290   100   Ianesville, Wis.   WEBC 1210   100   WEBO 1210   100   Ianesville, Wis.   WEBO 1310   Ianesville, W						WEAU 1050 1000
New Orleans. La.   Lanesville. Wis.   Duluth, Minn.   WENS 1430   1000   Loliet. III.   Harrisburg. III.   WESNY 1350   1000   New York, N. Y.   WENY 1370   100   Buffalo. N. Y.   WENY 1370   100   Buffalo. N. Y.   WENY 1370   100   Mendely 1370   Mendely 137						
WBNS 1430 1000   Columbus, Ohio   WCM 1310 100   MEBQ 1210 100   Mew York, N. Y.   Ashland, Kv.   WCNW 1500 100   Buffalo, N. Y.   WCNW 1500 100   WEDC 1210 100   Merodiden, N. Y.   WEDC 880 1000   Merodiden, Miss.   WEEL 1420 100   Reading, Pa.   WCOX 1310 100   WCOX 880 1000   Reading, Pa.   WCOX 1310 100   WCOX 1300   WEEL 1300 100   Reading, Pa.   WCOX 1310 100   WCOX 1310   WEEL 1420 100   Reading, Pa.   WEEL 1420 100   Well 1310 100   WCOX 1210 100   WEEL 1420 100	WBNO 12	200 100				
WBNS 1430   1000   Tollet. III.   Harrisburg. III.   WEBR 1310   100   WCMI 1310   100   WCMI 1310   100   WEBR 1310   100   WCMI 1310   100   WEBR 1310   100   WCOC 880   1000   WEED 1420   110   WEDC 1210   100   WCOC 880   1000   WEED 1420   100   WCOC 880   1000   WEEL 830   1000   WEBR 1210   100   WCOC 880   1000   WEEL 830   1000   WCOL 1210   100   WEEL 830   1000   WEBR 230   1000   WCOP 1120   500   Reading. Pa.   WEOR 1310   100   WCOV 1210   100   WEEL 1420   110   WEBR 1310   100   WCOV 1210   100   WEEL 1420   110   WEBR 1310   100   WCOV 1210   100   WEEL 1420   110   WEBR 1310   100   WCOV 1210   100   WEBR 1310   WENT 1310   WCOV 1210   100   WENT 1310   WENT 1310   WENT 1310   WCOV 1210   100   WENT 1310   WENT 1200   20   WCOV 1210   100   WENT 1200   WENT 1200   100   WENT 120	New Orles	ans, La.		Tanesville, Wis.		
WBNX 1350   1000   New York, N. Y.   WBNY 1370   100   Buffalo, N. Y.   WCNW 1500   100   Buffalo, N. Y.   WCNW 1500   100   Broaklyn, N. Y.   WEDO 860   59000   WCOA 1340   500   Rocky Mount, N. C.   WBRY 1310   100   Meridien, Miss.   WEED 1420   100   Red Bank, N. J.   WCOZ 880   1000   Meridien, Miss.   WEEU 830   100   Red Bank, N. J.   WWRC 930   1000   Red Mass.   WCOY 1210   100   Red Mass.   WEER 1310   100   WCOY 1210   100   Red Mass.   WCOY 1210   Red Mass.   Re	WBNS 14	130 1000			1	
New York, N. Y.   WENY 1370   100   Buffalo, N. Y.   WENY 1370   100   Buffalo, N. Y.   WENDC 1210   10   Chicago, III.   WEED 1420   100   WEED 1300   100   WEED 1310   100   WCOU 1210   100   WEED 1310   100   WCOU 1210   100   WEED 1310   100   WCOU 1210   100   WEED 1310   100   WEOD 1210   100   WEED 1310   100   WEOD 1210   100   WEED 1310   100   WEOD 1210   100   WEDPO 1300   WENPA 1310   100   WCOU 1210   100   WENPA 1310   100   WEND 1310   100	Columbus.	Ohio		Toliet, Ill.		
WBNY 1370   100   Buffalo, N. Y.   WBOO 860   59000   WCOA 1340   500   WEED 1420   100   WEED 1420	WBNX 13	350 1000			' I	
WBNY 1370		c, N. Y.		Ashland, Ky.		
Buffalo, N, Y,   WCOA, 1340   500   WEED, 1420   10   New York, N, Y,   WOO, 850   1000   WEED, 150   100   New York, N, Y,   WBOW 1310   100   WCOC 880   1000   WEED, 300   1000   Rocky Mount, N, C   WEER, 500   1000   WCOL 1210   100   WEEL, 500   100   Red Bank, N, J,   Columbus, Ohio   Readling, Pa.   WEEL, 1310   100   WCOP, 1120   500   Readling, Pa.   WEU, 1310   100   WCOV, 1210   100   WELL, 1420   10   Red Bank, N, J,   WBRE, 1310   100   WCOV, 1210   100   WEMP, 1310   100   WEND, 1310   100   WEND, 1310   100   WEND, 1310   100   WEND, 1310   100   WEST, 1300   100   WEVD, 1300   100   WEVD, 1300   100   WEVD, 1300   100   WEVD, 1300   100   WEND, 1300   1						
WBOQ 860 59000   New York, N. Y.						Unicago, III.
New York, N. Y.   Pensacola, Fla.   WCOC 830   1000   WEEL 590   100   WEEL 590   100   Red Mank, N. J.   WCOL 1210   100   Redding, Pa.   WEEL 300   100   Redding, Pa.   WEEL 310   100   WCOP 1120   500   Reading, Pa.   WELL 420   100   Wilkes-Barre, Pa.   WCOU 1210   100   WELL 1420   100   WERK 1310   100   WCOV 1210   100   WEMP 1310   100   WERY 1530   1000   WCOV 1210   100   WENY 1310   100   WENY 1530   1000   WCW 1210   100   WENY 1310   100   WENY 1200   25   WENR 870   5000   WCW 1210   100   WENY 1200   25   WENT 870   5000   WCW 1210   100   WENY 1200   25   WENT 870   5000   WCW 1210   100   WENY 1200   25   WENT 870   5000   WCW 1210   100   WENY 1200   25   WENT 870   5000   WCW 1210   100   WENY 1200   25   WENT 870   5000   WCW 1210   100   WENY 1200   25   WENT 870   5000	WBOO 8	360 50000			'	
WBOW 1310	New York	t, N. Y.		Pensacola, Fla.		
WBRB 1210	WBOW 1	310 100			,	
WBRB 1210	Terre Ha	ute, Ind.				
WBRC 930 1000   Birmingham, Ala.   Boston, Mass.   WELT 1310 100   WELT 1420	WBRB 1:	210 100			,	
Birmingham. Ala.   Roston. Mass.   WCOU 1210 100   WELL 1420 10   Rattle Creek, Mich.   WBRK 1310 100   WCOV 1210 100   Mem	Red Bank					
WBRE 1310	WBRC	930 1000			'	
Wilkes-Barre, Pa.   Tewiston, Maine   WCM   WEMP   1310   100   Pittsfield, Mass.   WBRY   1530   1000   Waterbury, Conn.   WBT   1080   5000   Charlette, N. C.   Chicago, Ill.   WENY   1200   22   Elmira, N. Y.   WEMZ   990   50000   WCSH   940   1000   WESG   850   100   Elmira, N. Y.   WEMZ   990   5000   WCAM   1220   1000   Springfield, Mass.   WCAD   1220   1000   Springfield, Mass.   WCAD   1220   1000   Canton, N. Y.   WCAE   1220   1000   WEND   1300   100   WEND   1300	Birmingha				. –	New Haven, Conn.
WBRK 1310	WBRE 1	310 100			'	WELL 1420 100
Pittsfield. Mass.   WCPO 1200   160   WENR 870 5000   WCRW 1530   1000   WCRW 1210   100   Chicago, III.   WENY 1200   2: Chicago, III.   WENY 1200   2: Chicago, III.   WENY 1370   100   Elmira, N. Y.   WESC 1360   WESC 1360   WESC 1370   100   Elmira, N. Y.   WESC 1360   WESC 1370   100   Elmira, N. Y.   WESC 1360   WESC 1370   100   Elmira, N. Y.   WESC 1360   WESC 1360   WESC 1370   100   Elmira, N. Y.   WESC 1360	Wilkes-Ba	rre, Pa.			. ——	
WBRY 1530 1000   Waterbury. Conn.   WCRW 1210 100   Chicago, Ill.   WENY 1200 2: Elmira, N. Y.   WENZ 990 50000   WCSH 940 1000   WESG 850 100   WENZ 1220 1000   Springfield. Mass.   WCAD 1220 500   Canton, N. Y.   WCAD 1220 1000   Pittsburgh. Pa.   WCAL 760 1000   WCAM 1280 500   Canden, N. J.   WCAD 1280 500   WDBJ 930 1000   Canden, N. J.   WCAD 1280 500   Canden, N. J.   WCAD 1280 500   WDBJ 930 1000   Canden, Mich.   WFAB 1300 100   Canden, Mich.   WCAD 1280 500   Ca	WBRK 1	310 100			'	
Waterbury, Conn.   Wilson	Pittsfield.				. —	
WBT 1080 50000   Charlotte, N. C.   Chicago, Ill.   WENY 1200 225   Elmira, N. Y.   WBTM 1370 100   Charleston, S. C.   WESA 1370 100   Roston, Mass.   WBZ 990 50000   Portland, Me.   WBSA 990 1000   Springfield, Mass.   WCAD 1220 500   Canton, N. Y.   WCAD 1220 1000   Pittsburgh, Pa.   WCAL 760 1000   Pittsburgh, Pa.   WCAL 760 1000   Northfield, Minn.   WCAM 1280 500   Camden, N. J.   WCAD 600 1000   Baltimore, Md.   WCAD 1280 500   Camden, N. J.   WCAD 1280 500   WDBJ 930 1000   Rapid City, S. Dak.   WCAT 1200 100   Rapid City, S. Dak.   WCAT 1200 100   WCAT 1200 100   Rapid City, S. Dak.   WCAT 1200 100   Philadelphia, Pa.   WCAT 1200 100   WDBO 580 1000   WFAB 1300 100					,	
Charlotte. N. C.   Chicago, Ill.   WCSC 1360   S00   Danville, Va.   WCSC 1360   S00   Charleston. S. C.   Evansville, Ind.   WESG 850   100   Evansville, Ind.   WESG 850   100   WESG 850   1		y, Conn.				Unicago, III.
WBTM 1370					' I	
War	Charlotte.	N. C.		TUTCEC 1260 FO	, <del>  </del>	
WBZ   990   50000   Portland   Me   Mess   850   100					'	
Boston, Mass.   WBZA 990 1000   WDAE 1220 1000   Tanna, Fla.   WEST 1200 100   Easton, Pa.   WEVD 1300 100   WEW 760 100   WEW 760 100   WEXT 1310   WEW 760 100   WEXT 1310   WEXT	Danville,	Va.			, <del> </del>	
WBZA 990 1000   Tampa, Fla.   Easton, Pa.   WEYD 1300 100   WEYD 1300 100   WEVD 1300 100   WEW 766 100   WEW 766 100   WEW 766 100   WEW 766 100   WEXD 1310   WEW 760 100   WEXD 1310   WE					'	Elmina N V
Springfeld. Mass.   WAAD   1220   500   WDAF   610   1000   Kansas City. Mo.   New York. N. Y.   WCAE   1220   1000   Pittsburgh. Pa.   WCAL   760   1000   Northfield. Minn.   WCAM   1280   500   Camden, N. I.   WDAN   1500   250   WEXL   1310   MVAM   1280   500   Camden, N. I.   WCAO   600   1000   Philadelphia, Pa.   WCAO   600   1000   Raltimore, Md.   WCAP   1280   500   WDAY   940   1000   Dallas. Texas   WFAB   300   100   WDAY   940   1000   New York, N. Y.   New York, N. Y.   WCAP   1280   500   WDBJ   930   1000   Northfield. Minn.   WDAY   940   1000   Dallas. Texas   WFAB   1300   1000   Northfield.   WDBJ   930   1000   Northfield.   WFAB   1210   1000   Northfield.   WDBJ   1200   1000   Northfield.   WDBJ   1200   1000   Northfield.   WDBJ   1200   1000   Philadelphia, Pa.   Wilmington. Del.   WDEV   1500   South Bend, Ind.   WFBC   1300   1000   Northfield.   WDBJ   1500   Northfield.   WFBC   1360   1000   Northfield.   North					`	
WCAD 1220   500   WDAF 610 1000   New York, N. Y.   WCAE 1220 1000   Pittsburgh. Pa.   WDAN 1500   250   WEXL 1310   Northfield. Minn.   WCAM 1280   500   Camden, N. J.   WCAO 600 1000   Baltimore, Md.   WCAP 1280   500   WDAY 940 1000   Baltimore, Md.   WCAP 1280   500   WDBJ 930 1000   New York, N. Y.   WCAP 1280   500   WDBJ 930 1000   New York, N. Y.   WCAP 1280   500   WDBJ 930 1000   New York, N. Y.   WCAP 1280   500   WDBJ 930 1000   New York, N. Y.   WCAP 1280   500   WDBJ 930 1000   New York, N. Y.   WCAT 1200 100   Rapid City, S. Dak.   Orlando, Fla.   WCAT 1200 100   Philadelphia, Pa.   WCAX 1200 100   WDEV 150   S000   WFBC 1300 100   Greenville, S. C.   WCAX 1200 100   WDEV 550   S00   WFBC 1300 100   Greenville, S. C.   WCAX 1200 100   Waterbury. Vt.   WCAZ 1070 100   WDGY 1180 1000   WFBL 1360 100   WF					′ I	
Canton, N. Y.   WCAE 1220 1000   WDAH 1310 100   St. Louis, Mo.   WEW 760 100   WDAN 1500 250   WEXL 1310   St. Louis, Mo.   WCAM 1280 500   WDAN 1500 250   WFAA 800 5000   Camden, N. J.   WDAS 1370 100   Philadelphia, Pa.   WCAO 600 1000   Baltimore, Md.   WCAP 1280 500   WDBJ 930 1000   Roanoke, Va.   WCAP 1280 500   WDBJ 930 1000   WFAM 81300 100   WFAM 8100 100   WOBJ 940   WFAM 1200 100   WFAM 1200 100   WOBJ 940   WFAM 1200 100   WFAM 1200 100   WEXT 1300 100   WFAM 1200 100   WOBJ 940   WFAM 1200 100   WFAM 1200					, I——	
WCAE 1220 1000   WDAH 1310 100   St. Louis, Mo.   WCAL 760 1000   WDAN 1500 250   WEXL 1310   Royal Ooak, Mich.   WCAM 1280 500   WDAN 1500 100   WFAA 800 5000   Camden, N. I.   WCAO 600 1000   Baltimore, Md.   WCAP 1280 500   WDAY 940 1000   Rapid City, S. Dak.   WCAT 1200 100   Rapid City, S. Dak.   WCAU 1170 50000   Philadelphia, Pa.   WCAX 1200 100   Philadelphia, Pa.   WCAX 1200 100   WDEV 1120 250   WFBC 1300 100   WFB	WCAD 1	220 500			′	
Pittsburgh	Canton, 1	N. Y.			,	WEW 760 1000
WCAL 760   1000   Northfield, Minn.   WCAM 1280   500   Camden, N. J.   WDAN 1370   100   Dallas, Texas   WCAO 600   1000   Baltimore, Md.   WCAP 1280   500   WDBJ 930   1000   WFAB 1300   100   New York, N. Y.   WCAP 1200   100   Roanoke, Va.   WCAT 1200   100   Rapid City, S. Dak.   WCAT 1200   100   Philadelphia, Pa.   WCAX 1200   100   Philadelphia, Pa.   WCAX 1200   100   Philadelphia, Pa.   WCAX 1200   100   WDEV 550   S00   WFBC 1300   100   WFBC 1300   100   WCAX 1200   100   WDEV 550   S00   Altoona, Pa.   WCAZ 1070   100   WDGY 1180   1000   WFBL 1360   100   WFBC 1360   1000   WCAX 1200   1000   Waterbury, Vt.   WCAZ 1070   100   WDGY 1180   1000   WFBL 1360   1000   WFBC 1360   1000   WCAX 1200   1000   Waterbury, Vt.   WCAZ 1070   100   WDGY 1180   1000   WFBL 1360   1000   WFBL 1360   1000   WFBL 1360   1000   WCAX 1200   1000   WATER 1360   1000   WFBL 1360   1000   WCAX 1200   1000   WCAX 1200   1000   WATER 1360   1000   WCAX 1200   1000   WCAX 1200   1000   WATER 1360   1000   WCAX 1200   1000   WATER 1360   1000   WCAX 1200   1000   WCAX 1200   1000   WATER 1360   1000   WCAX 1200   1000   WCAX 1200   1000   WATER 1360   1000   WCAX 1200   1000   WC	WCAE 1	220 1000				
Northfield Minn.   Danville, III.   Royal Ooak, Mich.   WCAM 1280   500   Philadelphia, Pa.   WCAO 600   1000   Fargo, N. Dak.   WFAB 1300   100   New York, N. Y.   WCAP 1280   500   WDBJ 930   1000   Rapid City, S. Dak.   WCAV 1170   50000   Philadelphia, Pa.   WCAX 1200   100   WDEV 1120   250   WFBC 1300   100   WFBC 1300   100   WCAX 1200   100   WDEV 550   500   WFBC 1300   100   WCAX 1200   100   WDEV 550   500   WFBC 1300   100   WCAX 1200   100   WDEV 550   500   WFBC 1300   100   WCAX 1200   100   WDEV 550   S00   WFBC 1300   100   WCAX 1200   100   WAterbury.   Vt.   WCAZ 1070   100   WDGY 1180   1000   WFBL 1360   100   W					1	
WCAM 1280   500   WDAS 1370   100   WFAA 800   5000   MCAM 1280   500   WDAY 940   1000   MVAM 1300   100   MVAM 1300   100   MVAM 1300   1000   MVAM 1200   1000					1	
Camden, N. J.   Philadelphia, Pa.   Dallas, Texas   WCAO 600 1000   WDAY 940 1000   New York, N. Y.   WCAP 1280   Soon   WDBJ 930 1000   WFAB 1300 100   New York, N. Y.   WCAT 1200 100   WDBD 580 1000   WFAS 1210 100   WDBD 580 1000   WFAS 1210 100   WDBL 1120 250   WFAS 1200 100   Philadelphia, Pa.   WCAX 1200 100   WDEV 550 500   WFBC 1300 100   WFBC 1300 100   WDEV 550 500   WFBC 1310 100   WCAX 1200 100   Waterbury. Vt.   WCAX 1070 100   WDGY 1180 1000   WFBL 1360 1000   WFBC 1360 1000			-		,	
WCAO 600 1000   WDAY 940 1000   New York, N. Y.					, I	
Ward					, —	
WCAP   1280   500						
Ashury Park. N. J.   Roanoke, Va.   South Bend, Ind.   WCAT 1200 100   WDBO 580 1000   White Plains, N. Y.   WCAU 1170 50000   WDEL 1120 250   WFBC 1300 100   WDEL 1120 250   WFBC 1300 100   WDEL 1120 250   WFBC 1300 100   WDEV 550 500   WFBC 1300 100   WDEV 550 500   WFBC 1300 100   WTBC 1300 100   WCAU 1000   WCAU 1000   WCAU 1180 1000   WFBL 1360   WFBL 1360 1000   WFBL 1360   WFBL 136					. —	
WCAT 1200 100					·	
WcAl 1200						
WCAU 1170 50000   WDEL 1120 250   WFBC 1300 100   WDEL 1120 250   Greenville, S. C.   WCAX 1200 100   WDEV 550 500   Wthomas 1100   Waterbury. Vt.   WCAZ 1070 100   WDGY 1180 1000   WFBL 1360 100   WFBL 1360 100   WFBL 1360   WFBL 1	WCAT 1				,	
WCAZ 1170   S0000   Wilmington. Del.   Greenville, S. C.   WCAX 1200   100   WDEV 550   S00   WFBG 1310   100   WCAZ 1070   100   WDGY 1180   1000   WFBL 1360   WFBL 1360   1000   WFBL 1360   WFBL 1360   WFBL 1360   WFBL						
WCAX 1200 100 WDEV 550 500 WFBG 1310 100 Waterbury. Vt. WCAZ 1070 100 WDGY 1180 1000 WFBL 1360 100					,	
Work   1200					. ——	
WCAZ 1070 100 WDGY 1180 1000 WFBL 1360 10					٧	
WCAZ 1070 100   WDG1 1100 1000   C						
					٠	
				Minneapolis, Minn.	. —	
TWO CONTRACTOR OF THE PROPERTY			1	Ducham N C	· ]	
					. —	
					<i>'</i>	
Chicago, Ill. Chattanooga, Tenn. Baltimore, Md.	Chicago,	III.		Chartashoga, renn.		Janumore, Mad.
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	NORTH AME	CRICA	N B. C. STATION	S BY	CALLS
	WFDF 1310 100 Flint, Mich.		WHAM 1150 50000 Rochester, N. Y.		WIBM 1370 100 Tackson, Mich.
	WFEA 1340 500		WHAS 820 50000		WIBU 1210 100
	Manchester, N. H. WFIL 560 1000		Louisville, Ky. WHAT 1310 100	· -	Poynette, Wis. WIBW 580 1000
	Philadelphia, Pa. WFLA 620 1000		Philadelphia, Pa.	ļ	Topeka, Kans.
-	Tampa, Fla.		WHAZ 1300 1000 Troy, N. Y.		WIBX 1200 100 Utica, N. Y.
	WFMD 900 500 Frederick, Md.		WHB 860 1000 Kansas City, Mo.		WICA 940 250 Ashtabula, Ohio
	WFMJ 1420 100 Youngstown, Ohio		WHBB 1500 100		WICC 600 500
	WFNC 1340 250		Selma, Ala. WHBC 1200 100 Canton, Ohio		Bridgeport, Comn. WIL 1200 100
	Fayetteville, N. C. WFOR 1370 100	-	Canton, Ohio WHBF 1210 100		St. Louis, Mo. WILL 580 1000
-	Hattiesburg, Miss. WFOY 1210 100	-	Rock Island, Ill.		Urbana, Ill.
	St. Augustine, Fla.		WHBI 1250 1000 Newark, N. J.		WILM 1420 100 Wilmington, Del.
	WFTC 1200 100 Kinston, N. C.		WHBL 1300 250 Sheboygan, Wis.		WIND 560 1000 Gary, Ind.
	WGAL 1500 100 Lancaster, Pa.		WHBQ 1370 100		WINS 1180 1000
	WGAN 640 500		Memphis, Tenn. WHBU 1210 100		New York, N. Y. WIOD 610 1000
	Portland, Me. WGAR 1450 500		Anderson, Ind. WHBY 1200 100	ļ	Miami, Fla. WIP 610 1000
-	Cleveland, Ohio WGAU 1310 100		Green Bay, Wis.	ļ <u> </u>	Philadelphia, Pa.
	Athens, Ga. WGBB 1210 100		WHDF 1370 100 Calumet, Mich.		WIRE 1400 1000 Indianapolis, Ind.
	Freeport, N. Y.		WHDH 830 1000 Boston, Mass. WHDL 1400 250		WIS 560 1000 Columbia, S. C.
	WGBF 630 500 Evansville, Ind.		WHDL 1400 250 Olean, N. Y.		WISN 1120 250 Milwaukee, Wis.
	WGBI 880 500 Scranton, Pa.		WHEB 740 250		WJAC 1310 100
	WGCM 1210 100		Portsmouth, N. H. WHEC 1430 500		*ohnstown, Pa. #VIAG 1060 1000
	Gulfport, Miss. WGES 1360 500		Rochester, N. Y. WHEF 1500 100		Norfolk, Neb. WJAR 890 1000
	Chicago, Ill. WGH 1310 100		Kosciusko, Miss.		Providence, R. I.
	Newport News, Va.		WHFC 1420 100 Cicero, Ill.		WJAS 1290 1000 Pittsburgh, Pa.
	Galesburg, Ill.		WHIO 1260 1000		WJAX 900 1000 Tacksonville, Fla.
	WGL 1370 100 Fort Wayne, Ind.		Dayton, Ohio WHIP 1480 5000 Hammond, Ind.		WJBC 1200 100 Bloomington, Ill.
	WGKV 1500 100 Charleston, W. Va.		WHIS 1410 500		WIBK 1500 100
	WGN 720 50000		Bluefield, W. Va. WHJB 620 250		Detroit, Mich. WJBL 1200 100
-	Chicago, Ill. WGNC 1420 100		Greensburg, Pa. WHK 1390 1000	-	Decatur, Ill. WIBO 1120 500
	Castonia, N. C. WGNY 1210 100		Cleveland, Ohio		Baton Rouge, La.
	Newburgh, N. Y.		WHKC 640 500 Columbus, Ohio		WJBW 1200 100 New Orleans, La.
	WGPC 1420 100 Albany, Ga.		WHLB 1370 100 Virginia, Minn.		WJBY 1210 100 Gadsden, Ala.
	WGR 550 1000 Buffalo, N. Y.		WHLS 1370 250 Port Huron, Mich.		WJDX 1270 1000
	WGRC 1370 250 New Albany, Ind.		WHMA 1420 100		Jackson, Miss. WJEJ 1210 100
	WGRM 1210 100		Anniston, Ala. WHN 1010 1000		Hagerstown, Md. WIHL 1200 100
	Grenada, Miss. WGST 890 1000		New York, N. Y. WHO 1000 50000	-	Johnson City, Tenn. WJIM 1210 100
	Atlanta, Ga. WGTM 1310 100		Des Moines, Iowa		Lansing, Mich.
	Wilson, N. C.		WHOM 1450 250 Jersey City, N. J.		WJJD 1130 20000 Chicago, Ill.
	WGY 790 50000 Schenectady, N. Y.		WHP 1430 500 Harrisburg, Pa.		WJMC 1210 250 Rice Lake, Wis.
	WHA 940 5000 Madison, Wis.		WIBA 1280 1000		WJMS 1420 100
	WHAI 1210 250		Madison, Wis. WIBC 1050 1000	-	Ironwood, Mich. WJNO 1200 100
	Greenfield, Mass. WHAL 950 500		Indianapolis, Ind. WIBG 970 100		W. Palm Beach, Fla
	Saginaw, Mich.		Glenside, Pa.		

	NORTH AME			_	
	WJR 750 50000		WLNH 1310 100		WNAD 1010 1000
	Detroit, Mich.		Laconia, N. H. WLS 870 50000		Norman, Okla. WNAX 570 1000
	WJRD 1200 250	. 1	WLS 870 50000 Chicago, Ill.		Yankton, S. D.
	Tuscaloosa, Ala. WJSV 1460 10000		WLTH 1400 500		WNBC 1380 250
ŀ	Washington, D. C.		Brooklyn, N. Y.		New Britain, Conn.
	WITN 1210 100		WI.VA 1200 100		WNBF 1500 100
	Jamestown, N. Y.		Lynchburg, Va. WLW 700 500000		Binghamton, N. Y. WNBH 1310 100
	WJW 1210 100		Cincinnati, Ohio		New Bedford, Mass.
<b></b>	Akron, Ohio WJZ 760 50900		WMAL 630 250		WNBX 1260 500
	New York, N. Y.		Washington, D. C.		Springfield, Vt.
	WKAQ 1240 1000		WMAQ 670 50000		WNBZ 1290 100
	San Juan, P. R.		Chicago, Ill WMAS 1420 100		Saranac Lake, N. Y. WNEL 1290 1000
	WKAR 850 1000 East Lansing, Mich.		WMAS 1420 100 Springfield, Mass.		San Juan, P. R.
	WKAT 1500 100		WMAZ 1180 1000		WNEW 1250 1000
	Miami Beach, Fla.		Macon, Ga.		New York, N. Y.
	WKBB 1500 100		WMBC 1420 100		WNLC 1500 100 New London, Conn.
	East Dubuque, Ill.		Detroit, Mich. WMBD 1440 1000		WNOX 1010 1000
	WKBH 1380 1000 LaCrosse, Wis.		WMBD 1440 1000 Peoria, III.		Knoxville, Tenn.
	LaCrosse, Wis. WKBN 570 500	h	WMBF 610 1000		WNYC 810 1000
	Youngstown, Ohio	L	Miami, Fla.		New York, N. Y.
	WKBO 1200 100		WMBG 1350 500		WOAI 1190 50000 San Antonio, Texas
	Harrisburg, Pa. WKBV 1500 100		Richmond, Va. WMBH 1420 100		WOC 1370 100
	Richmond, Ind.				Davenport, Iowa
<b></b>	WKBW 1480 5000		Joplin, Mo. WMBI 1080 5000		WOCB 1210 100
	Buffalo, N. Y.		Chicago, Ill.		Cape Cod, Mass. WOI 640 5000
	WKBZ 1500 100 Muskegon, Mich.	ļ	WMBO 1310 100 Auburn, N. Y.		Ames, Iowa
<u> </u>	WKEU 1500 100		WMBR 1370 100		WOKO 1430 500
	Griffin, Ga.		Jacksonville, Fla.		Albany, N. Y.
			WMBS 1420 250		WOL 1310 1000 Washington, D. C.
L	Sunhury, Pa. WKRC 550 1000	<u> </u>	Uniontown, Pa. WMC 780 .000		WOLS 1200 100
	Cincinnati, Ohio	1	WMC 780 .000 Memphis, Tenn.		Florence, S. C.
	WKST 1250 250	<b>——</b>	WMCA 570 1000		WOMI 1500 100
	New Castle, Pa.		New York, N. Y.		Owensboro, Ky. WOMT 1210 100
	WKY 900 1000 Oklahoma City, Okla.	1	WMEX 1500 100	_	Manitowoc, Wis.
	WKZO 590 1000		Boston, Mass. WMFD 1370 100		WOOD 1270 500
	Kalamazoo, Mich.		Wilmington, N. C.		Grand Rapids, Mich.
<u> </u>	WLAC 1470 5000		WMFF 1310 100		WOPI 1500 100
	Nashville, Tenn. WLAK 1310 100	<u></u>	Plattsburg, N. Y.		Bristol, Tenn. WOR 710 50000
J	Lakeland, Fla.		WMFG 1210 100		Newark, N. J.
<b>—</b>	WLAP 1420 100		Hibbing, Minn. WMFJ 1420 100		WORC 1280 500
	Lexington, Ky.		Dayton Beach, Fla.		Worcester, Mass.
	WLAW 680 1000 Lawrence, Mass.		WMFO 1370 100		WORK 1320 1000 York, Pa.
	WLB 760 1000		Decatur, Ala. WMFR 1200 100		WORL 920 500
İ	Minneapolis. Minn	1	High Point, N. C.		Boston, Mass.
-	√ WLBC 1310 100		WMIN 1370 100		WOSU 570 750
	Muncie, Ind.		St. Paul, Minn.		Columbus, Ohio WOV 1130 1000
	WLBL 900 5000 Stevens Point, Wis.	1	WMMN 890 500 Fairmont, W. Va.		New York, N. Y.
<u> </u>	WLBZ 620 500	<del></del>	WMPC 1200 100		WOW 590 1000
	Bangor, Me.		Lapeer, Mich.		Omaha, Neb. WOWO 1160 10000
	WLEU 1420 100		WMPS 1430 500		WOWO 1160 10000 Fort Wayne, Ind.
	Erie, Pa. WLLH 1370 100		Memphis, Tenn. WMRO 1250 250		WPAD 1420 100
Į	Lawrence, Mass.		Aurora, Ill.		Paducah, Ky.
-	WLLH 1370 100		WMSD 1420 100		WPAR 1420 100
L	Lowell, Mass.		Muscle Shoals C., Ala.	-	Parkersburg, W. Va. WPAX 1210 100
			WMT 600 1000 Cedar Rapids, Iowa		Thomasville, Ga.
<u> </u>	-		WNAC 1230 1000		1
ļ		L	Boston, Mass.		
<u></u>			J		J

	WPAY 1370 100		WSAN 1440 500		WTAR 780 1000
	Portsmouth, Ohio WPEN 920 1000	_	Allentown, Pa.		Norfolk, Va.
	WPEN 920 1000 Philadelphia, Pa.	1	WSAR 1450 1000		WTAW 1120 500
	WPG 1100 5000		Fall River, Mass. WSAU 1370 100		College Station, Tex.
1	Atlantic City, N. J.	1	WSAU 1370 100 Wausau, Wis.		WTAX 1210 100 Springfield, Ill.
	WPIC 780 250		WSAV 1310 100	-	WTBO 800 250
ŀ	Sharon, Pa.	1 5	Savannah, Ga.		Cumberland, Md.
	WPRA 1370 100	7	WSAY 1210 100		WTCN 1250 1000
	Mayaguez, P. R.		Rochester, N. Y.		Minneapolis, Minn.
	WPRO 630 500	1	WSAZ 1190 1000		WTEL 1310 100
	Providence, R. I.		Huntington, W. Va.		Philadelphia, Pa.
l .	WPRP 1420 100		WSB 740 50000		WTHT 1200 100
$\vdash$	Ponce, P. R. WPTF 680 5000	<b>—</b>	Atlanta, Ga. WSBC 1210 100		Hartford, Conn.
i	Raleigh, N. C.		WSBC 1210 100		WTIC 1040 50000 Hartford, Conn.
	WOAM 560 1000		Chicago, Ill.		WTJS 1310 100
1	Miami, Fla.		WSBT 1360 500 South Bend, Ind.		Jackson, Tenn.
	WQAN 880 500		WSFA 1410 500		WTMJ 620 1000
l_	Scranton, Pa.		Montgomery, Ala.		Milwaukee, Wis.
	WQBC 1360 1000		WSGN 1310 100		WTMV 1500 100
<b>L</b>	Vicksburg, Miss.		Birmingham, Ala.	$\vdash$	East St. Louis, Ill.
i	WQDM 1390 1000		WSIX 1210 100		WTNJ 1280 500
<b>—</b>	St. Albans, Vt. WQXR 1550 1000		Nashville, Tenn.	$\vdash$	Trenton, N. J. WTOC 1260 1000
	New York, N. Y.		WSJS 1310 100 Winston-Salem, N. C.		Savannah, Ga.
	WRAK 1370 100		WSLI 1420 100		WTOL 1200 100
1	Williamsport, Pa.		Jackson, Miss.		Toledo, Ohio
	WRAL 1210 100		WSM 650 50000		WTRC 1310 100
Ĺ	Raleigh, N. C.		Nashville, Tenn.		Elkhart, Ind.
	WRAW 1310 100		WSMB 1320 1000		WVFW 1400 500
	Reading, Pa.   WRAX 920 1000		New Orleans, La.		Brooklyn, N. Y.
1	WRAX 920 1000 Philadelphia, Pa.		WSMK 1380 200		WWAE 1200 100 Hammond, Ind.
<u> </u>	WRBL 1200 100	-	Dayton, Ohio WSNJ 1210 100		WW.J 920 5000
	Columbus, Ga.		Bridgeton, N. J.		Detroit, Mich.
	WRC 950 1000		WSOC 1210 100		WWL 850 10000
L	Washington, D. C.		Charlotte, N. C.		New Orleans, La.
ŀ	WRDO 1370 100		WSPA 920 1000		WWNC 570 1000
	Augusta, Me. WRDW 1500 100		Spartanburg, S. C.		Asheville, N. C.
	Augusta, Ga.		WSPD 1340 1000		WWRL 1500 100
<b>-</b>	WREC 600 1000	-	Toledo, Ohio WSPR 1140 500		Woodside, N. Y. WWSW 1500 100
1	Memphis, Tenn.		Springfield, Mass.		Pittsburgh, Pa.
	WREN 1220 1000		WSTP 1500 100		WWVA 1160 5000
L	Lawrence, Kans.		Salisbury, N. C.		Wheeling, W. Va.
	WRGA 1500 100	172	WSUI 880 500		WXYZ 1240 1000 Detroit, Mich.
	Rome, Ga. WRJN 1370 100		Iowa City, Iowa		Detroit, Mich.
	Racine. Wis.		WSUN 620 1000		W3XDD 50000
-	WRNL 880 500		St. Petersburg, Fla. WSVA 550 500		Whippany, N. J. W3XJ 1060 100
1	Richmond, Va.		WSVA 550 500 Harrisonhurg, Va.		W3XJ 1060 100 College Park, Md.
	WROK 1410 500		WSVS 1370 50		XEAA 750 200
	Rockford, Ill.		Buffalo, N. Y.		Mexicali, B. C.
	WROL 1310 100		WSYB 1500 100		XEAC 980 1000
<u> </u>	Knoxville, Tenn. WRR 1280 500		Rutland, Vt.		Tijuana, L. C.
	Dallas, Texas		WSYR 570 1000		XEAF 990 750
	WRTD 1500 100		Syracuse, N. Y.		Nogales, Son.
	Richmond, Va.		WSYU 570 1000 Syracuse, N. Y.		XEAG 1310 10 Cordoba, Ver.
	WRUF 830 5000		WTAD 900 1000		XEAI 1250 500
	Gainesville, Fla.		Quincy, Ill.		Mexico City, D. F.
	WRVA 1110 5000		WTAG 580 1000		XEAL 660 1000
	Richmond, Va.		Worcester, Mass.		Mexico City, D. F.
	WSAI 1330 1000	7	WTAL 1310 100		XEAM 750 25
<b>-</b>	Cincinnati, Ohio WSAJ 1310 100	$\vdash$	Tallahassee, Fla.		Matamoros, Tams.
1	Grove City, Pa.		WTAM 1070 50000		XEAO 660 250
<b>—</b>	WSAL 1200 250		Cleveland, Ohio		Mexicali, B. C.
	Salisbury, Md.		WTAQ 1330 1000 Green Bay, Wis.		
	-		Circui Day, Wis.		

	NORTH AME	RICAN	B. C. STATIONS	BY C	ALLS
	XEAP 1340 50		XEF 1450 100		XEN 780 1000
	Obregon, Son.		Juarez, Chih.		Mexico City, D. F. XENC 860 50
	XEAS 1160 100		XEFA 1180 500 Tacuba, D. F.		Mexico City, D. F.
<b> </b>	Saltillo, Coah. XEAT 1210 250		XEFB 870 200		XENT 910 150000
	Parral, Chih.		Monterrrey. N. L.		Nuevo Laredo, Tams.
	XEAU 1320		XEFC 550 100		XEOJ
L	Tijuana, B. Cfa.	——	Merida, Yuc. XEFE 980 250		XEOK 760 2500
	XEAW 960 100000 Revnosa, Tams.	1	Nuevo Laredo, Tams.		Tijuana, L. C.
	XEAZ 1230 200		XEFI 1440 250		XEP 1160 500
	Zacatecas, Zac.		Chihuahua, Chih.		Juarez, Chih. XEPN 730 100000
	XEB 1030 10000 Mexico City, D. F.	i i	XEFM 1160 20 Leon. Gto.		Piedras Negras, Coah.
	XEBA 1080 20		XEFO 940 5000		XEQ 710 50000
	Guzman, Jal.	<b>├</b>	Mexico City, D. F.	-	Tijuana, L. C. XERA 840 250000
	XEBG 820 1000		XEFO 1010 50 Cananea, Son.		XERA 840 250000 Villa Acuna, Coah.
	Tijuana, B. Cfa. XEBH 930 500	$\vdash$	XEFV 1210 100		XERB 730 100000
1	Hermosillo, Sonora		Tuarez, Chih.		Rosarito Beach, B. Cfa.
	XEBI 1000 25	1	XEFW 1310 300		XES 990 250 Tampico, Tams.
<b></b>	Aguascalientes, Ags. XEBK 1080 100		Tampico, Tams. XEG 1230 250		XET 690 5000
	Neuvo Laredo, Tams.		Monterrey, N. L.		Monterrey, N. L.
	XEBL 1220 50		XEH 720 250		XETB 1310 125
	Mazatlan, Sin. XEBO 1310 25		Monterrey, N. L. XEI 1370 125		Torreon, Coah, XETH 1210 100
	Irapuato, Guan.		Morelia, Mich.		Puebla, Pue.
	XEBP 1150 250		XEJ 1020 1000		XEU 1010 250 Veracruz, Ver.
	Durango, Dgo. XEBS 1340 200	$\vdash$	Juarez, Chih. XEJP 1130 100		XEW 890 50000
	Mexico City, D. F.		Mexico City, D. F.		Mexico City, D. F.
<u> </u>	XEBU 1200 50		Mexico City, D. F.		XEX 1310 125 Monterrey, N. L.
	Chihuahua, Chih. XEBX 640 250	-	XEK 890 100	-	XEXB 1270 250
1	Sabinas, Coah.		Mexico City. D. F.		Jalapa, Ver.
	1 X E B Z 810 100		XEKL 1240 500 Leon, Guan.		XEXD 1340 350 Jalapa, Ver.
	Mexico City, D. F. XEC 1150 100	H	XEL 1100 250		XEXE 1270 17
1	Tijuana, L. C.		Mexico City, D. F.		Texcoco, D. F. XEXH 1250 250
	XÉCZ 1370 100 San Luis Potosi, S. L. P.		XELA 1240 50 Saltillo, Coah.		XEXH 1250 250 San Luis Potosi, S.L.P.
	XED 1160 2500		XELO 580 10000		XEXM 610 500
	Guadalajara, Jal.		Tijuana, BCfa.		Mexico City, D. F. XEXS 1310 100
	XEDA 1220 200 Gral, Anaya, D. F.	1 1	Mexico City, D. F.		XEXS 1310 100 Mexico City, D. F.
	XEDF 810 100		XEME 1240 50		XEXX 1170 1000
	Nuevo Laredo, Tams.		Merida, Yuc.		Mexico City, D. F. XEYO 610 500
	XEDH 1340 200 Villa Acuna, Coah.	1	XEMO 860 5000 Tijuana, L. C.		XEYO 610 500 Mexico City, D. F.
<b> </b>	XEDP 1080500		XEMU 580 250		XEZ 630 500
	Mexico City, D. F.		Piedras Negras, Coah.	-	Merida, Yuc. YSS 640 500
	XEDW 1150 20	{	XEMX 1280 100 Mexico City, D. F.		San Salvador, E. S.
<u> </u>	Minatitlan, Ver. XEE 1210 50		,		ZNS 540 400
	Durango, Dgo.				Nassau, Bahamas
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## **Broadcasting Stations** of NORTH AMERICA

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

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

KFPW, Fort Smith, Ark, 1210 kes, 100 w. unltd. Aerial: 2 towers, 120 ft. Manager: Dorothy A. Gibson. Owners Southwestern Hotel Co., Goldman Hotel. KFPY, Spokane, Wash., 890 kcs., 1000 w. nights, 5 kw. to LS, unltd. Network: CBS and Pacific. Aerials vertical, 468 ft. Manager: T. W. Symons, Jr. Licensee: Symons Broadcasting Co.,

Symons Bldg.

KFQD, Anchorage, Alaska, 780 kcs., 250 watts, specified hours. Aerial: 2 towers, 120 ft. Manager: R. E. McDonald. Licensees Anchorage Radio Club, Inc., 411 Fouth Ave.

KFRC, San Francisco, Calif. 610 kcs., 100 w. nights, 5 kw. to LS, unltd. Network: Mutual. Aerial: 2 towers, 125 ft. Licensee: Don Lee Broadcasting System, 100 Van Ness Ave.

KFRO, Longview, Texas, 1370 kcs., 250 w. days. Network: Mutual. Transmitter: S. Green at Radio St. Aerial: vertical 185 ft. Manager: Harold S. Johnson. Licensee: Voice of Longview, Glover-Crim Blvd. (P. O. Box 616).

KFRU, Columbia, Mo., 630 kcs., 500 w. nights, 1 kw. days to LS. Simultaneous days, shares nights with WGBF. Network: Cornbelt. Aerial: 2 towers, 165 ft. Manager: C. L. Thomas.

Licensee: KFRU, Inc., 9th and Elm Sts.

KFSD, San Diego, Calif., 600 kcs., 1000 w. unltd. Network: NBC Blue. Aerial: 2 townships and the state of th Aerial: 2 towers, 231 ft.

KFSG, Los Angeles, Calif., 1120 kcs., 500 w. nights, 2500 w. days to LS, shares with KRKD.

Aerial: 1 tower, 250 ft. Manager: Dr. Giles Knight. Licensee: Eeho Park Evangelistic Association, 1100 Glendale Blvd.

KFUO, St. Louis, Mo., 550 kcs., 500 w. nights, 1 kw. to LS, shores with KSD. Transmitter: Clayton Aerial: 2 towers, 200 ft. Manager: Herman H. Hohenstein. Licensee: Evangelical Lutheran Synod, 801 DeMun St.

KFVD, Los Angeles, Calif., 100 kcs., 100 w., limited time. Transmitter: 8300 Cattaraugus St., Culver City. Aerial: vertical, 250 ft. Manager: Frank Burke. Licensee: Standard Broadcasting Co., 338 So. Western Ave.
 KFVS, Cape Girardeau, Mo., 1210 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: vertical, 254 tt. Manager: Oscar Hirsh. Licensee: Radio Station KFVS, Hotel Marquette (P. O. Box

275).

KFWB, Los Angeles (Hollywood) Calif., 950 kcs., 1000 w. nights, 5 kw. to LS, Unltd. Network: California Transmitter: 3531 Moynier Lane. Aerial: vertical, 465 ft. Manager: Harry Maizlish. Lteensee: Warner Brothers Broadcasting Corp., 583 Fernwood Ave.

KFXD, Nampa, Idaho, 1200 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: vertical, 230 ft. Manager: Edward Hurt. Licensee: Frank E. Hurt, 1024 12th Ave., S. (P. O. Box 891).

KFXJ, Grand Junction, Colo., 1200 kcs., 100 w. nights, 250 w. to LS, unltd. Transmitter: Hillcrest Manor. Aerial: 2 towers, 85 ft. Manager: Rex Howell. Licensee: Western Slope Broadcasting Co., Hillcrest Manor.

KFXM, San Bernardino, Calif., 1210 kes., 100 w., shares with KPPC. Network: Mutual. Transmitter: 512-5th St. Acrial: 2 towers, 107 and 155 ft. Manager: J. C. Lee. Licensee: Lee Brothers Broadcasting Co., California Hotel.

Brothers Broadcasting Co., California Hotel.

KFYO, Lubbock, Texas, 1310 kcs., 100 w. nights, 250 w. days to LS, unltd. Network: Mutual. Aerial: vertical, 145 ft. Mamager: DeWitt Landis. Licensee: Plains Radio Broadcasting Co., 914 Avenue J. (P. O. Box 1448).

KFYR, Ismarck, N. Dak., 550 kcs., 100 w. nights, 5 kw. to LS. Networks: National. Transmitter: near Menoken. Aerial: vertical. 700 ft. Fhoto: Radex No. 99. Manager: F. E. Fitzsimonds. Licensee: Meyer Broadcasting Co., 320 Broadway.

KGA. Spokane, Wash., 1470 kcs., 5000 w. unltd. Network: NBC Blue Mutual and Northwest Triangle. Aerial: vertical., 225 ft. Manager: A. L. Smith, Licensee: Louis Wasmer, 1023 W. Riverside Ave.

KGAR Turson Ariz, 1370 kcs., 100 w. nights, 250 w. days to LS. walth. Network: California.

KGAR, Tucson, Ariz., 1370 kcs., 100 w. nights, 250 w. days to LS, unltd. Network: Columbia.

Aerial: vertical, 80 ft. Manager: Frank Z. Howe. Licensee: Tucson Motor Service Co., S. Sixth Ave. and 12th St.

KGB, San Diego, Calif., 1330 kcs., 1000 w. unltd. Network: Mutual. Aerial: 2 towers, 190 ft. Manager: S. W. Fuller. Licensee: Don Lee Broadcasting System, 1012 First Ave.
 KGBU, Ketchikan, Alaska, 900 kcs., 500 w. unltd. Aerial: vertical, 280 ft. Permit: Has CP to use

1000 watts. Manager: James A. Britton. Licensee: Alaska Radio and Service Co., nc., KGBU

Bildg., East and Stedman Sts.

KGBX, Springfield, Mo., 1230 kcs., 500 w., unltd. Network: ational. Aerial: Directional at night;

2 towers, 179 ft. Manager: R. D. Foster. Licensee: Springfield Broadcasting Co., 508 St. Louis St.

KGCA, Decorah, Iowa, 1270 kcs., 100 watts days, shares with KWLC. Transmitter: 201 Water St. Aerial: 2 towers, 55 ft. Licensee: Charles W. Greenley, 211 Winnebago St. KGCI, Coeur d'Alene, Idaho, 1200 kcs., 100 w. days. Aerial: vertical, 215 ft. Manager: Edward Hurt. Licensee: Clarence A. Berger and Saul S. Freeman, 2nd and Sherman.

- KGCU, Mandan, N. Dak., 1240 kcs., 250 w. unltd. Transmitter: 111-1st Ave., N. W. Aerial: vertical, 70 ft. Licensee: Mandan Radio Association, 404 W. Main St.
- KGCX, Wolf Point, Mont., 1450 kcs., 1000 w. unltd. Aerial: vertical, 183 ft. Manager: Milton J. Severson. Licensee: E. E.Krebsbach, Main and 4th.
- KGDE, Fergus Falls, Minn., 1200 kcs., 100 w. nights, 250 watts to LS, unltd. Aerial: 2 towers, 90 ft. Manager: C. L. Jaren. Licensee: Charles L. Jaren.
  KGDM, Stockton, Calif., 1100 kcs., 1000 w. days. Network: Mutual. Aerial: vertical, 224 ft. Licensee: E. F. Peffer, 42 S. California St.
  KGEK, Sterling Colo. 1200 kcs. 1000 w. specified hours. Aerial: 2 towers, 92 ft. Licensee.
- Sterling, Colo., 1200 kcs., 100 w., specified hours. Aerial: 2 towers, 82 ft. Licensee: Elmer KGEK, G. Beehler, Fleming Road.

- G. Beehler, Fleming Road.

  KGER, Long Beach, Calif., 1360 kcs., 100 w. unltd. Aerial: vertical, 186 ft. Manager: C. Merwin Dobyns. Licensee: Consolidated Broadcasting Corp., Ltd., 435 Pine Ave.

  KGEZ, Kalispell, Mont., 1310 kcs., 100 w. unltd. Aerial: vertical, 250 ft. 2 in. Licensee: Donald C. Treloar, 203 First Ave., E. (P. O. Box 1).

  KGFF, Shawnee, Okla., 1420 kcs., 100 w. nights, 250 w. to LS, unltd. Network: Mutual. Transmitter: Shawnee Country Club. Aerial: vertical, 300 ft. Manager: Ross Porter. Licensee: KGFF Broadcasting Co., Inc., Aldridge Hotel.

  KGFI, Brownsville, Texas, 1500 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: vertical, 160 ft. Manager: F. R. Wilson. Licensee: Eagle Broadcasting Co., Inc., KGFJ, Los Angeles, Calif., 1200 kcs., 100 w. unltd. Transmitter: 1828 Oak St. Aerial: vertical, 200 ft. Program Director: Thelma Kirchner. Licensee: Ben S. McGlashen, 1417 S. Figueroa St. KGFL, Roswell, N. Mex., 1370 kcs., 100 w., shares with KICA. Transmitter: 511 W. 16th St. Aerial: vertical, 179 ft. Manager: W. E. Whitmore. Licensee: KGFL, Inc., 502 W. Second St.

- KGFW, Kearney, Nebr., 1310 kes., 100 w. unltd. Aerial: 2 towers, 65 ft. Permit: bas CP for 250 w. days. Manager: Clark Standiford. Licensee: Central Nebraska Broadcasting Corp., 919 W. 27th St.
- KGFX, Pierre, S. Dak., 630 kcs., 200 w. days, specified hours. Aerial: 2 towers, 60 ft. Licensee: Dana McNeil Estate (Mrs. Ida A. McNeil, Adm.) 203 W. Summit Ave., (P. O. Box 573). KGGF, Coffeyville, Kans., 1010 kcs., 1000 w., shares with WNAD. Network: Mutual. Transmitter: S. Coffeyville, Okla. Aerial: 2 towers, 200 ft. Manager: Hugh J. Powell. Licensee: Powell & Platz, Coffeyville Journal Bldg.

- & Platz, Coffeyville Journal Bldg.

  KGGM, Albuquerque, N. Mex., 1230 kcs., 1000 w. unltd. Aerial: vertical, 239 ft. Manager: Mike Hollander. Licensee: New Mexico Broadcasting Co., KiMo Theater Bldg.

  KGHF, Pueblo, Colo., 1320 kcs., 500 w. unltd. Network: NBC Blue. Aerial: 2 towers, 90 ft. Manager: J. H. McGill. Licensee: Curtis P. Ritchie, 113 Broadway.

  KGHI, Little Rock, Ark., 1200 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: vertical, 171 ft. Manager: R. G. Terriall. Licensee: Arkansas Broadcasting Co., Ark. Gazette Bldg.

  KGHL, Billings, Mont., 780 kcs., 100 w. nights, 5 kw. days to LS, unltd. Network: National. Transmitter: west of Billings. Aerial: vertical, 558½ ft. Manager: Ed Yocum. Licensee: Northwestern Auto Supply Co., Inc., 5th Ave. and N. Broadway.

  KGIR, Butte, Mont., 1340 kcs., 1000 w. nights, 5 kw. days to LS, unltd. Network: National, Z-Bar, and Pacific Northwest. Aerial: vertical, 224 ft. Manager: E. B. Craney. Licensee: KGIR, Inc., 121 W. Broadway.
- Inc., 121 W. Broadway.

  KGIW, Alamosa, Colo., 1420 kcs., 100 w., shares with KIDW. Transmitter: Laveta Highway.
- Aerial: 2 towers, 71 ft. Licensee: Leonard E. Wilson, Box 26.

  KGKB, Tyler, Texas, 1500 kcs., 100 w. nights, 250 w. days, unltd. Network: Mutual. Aerial: vertical, 167 ft. Manager: Roy G. Terry. Licensee: East Texas Broadcasting Co., Tyler Commercial College Bldg.
- KGKI, San Angelo, Texas, 1370 kcs., 100 w. nights, 250 w. to LS, unltd. Network: Mutual. Transmitter: 50 S. Milton St. Aerial: vertical, 171 ft. Manager: Earle Yates. Licensee: KGKI, Inc., St. Angelus Hotel.

  KGKO, Forth Worth, Texas, 570 kcs., 100 w. nights, 5 kw. to LS, unltd. Network: National. Transmitter: Arlington. Aerial: directional at night. Manager: Harold V. Hough. Licensee:
- KGKO Broadcasting Co.
- KGKY, Scottsbluff, Nebr., 1500 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: 2 towers, 93 ft. Manager: L. L. Hillard. Licensee: Hillard Co., Inc., 1517 & Broadway.

  KGLO, Mason City, Iowa., 1210 kcs., 100 w. nights, 250 w. to LS, unltd. Network: Columbia. Aerial: vertical, 290 ft. Manager: F. C. Eighmey. Licensee: Mason City Globe Gazette Co., Hotel Hanford.
- KGLU, Safford, Ariz., 1420 kcs., 100 w. nights, 250 w. to LS, unltd. Licensee: Gila Broadcasting Co., 6th Ave. and Relation St.
- KGMB, Honolulu, Hawaii, 1320 kcs., 1000 w. unltd. Network: Colombia, Mutual. Aerial: vertical, 179 ft. Manager: Webley Edwards. Licensee: Honolulu Broadcasting Co., Ltd., 1129 Kapio-
- lani Blvd. (P. O. Box 581).

  KGNC, Amarillo, Texas, 1410 kcs., 100 w. nights, 2500 w. to LS, unltd. Network: National. Aerial: vertical, 224 ft. Manager: O. L. Taylor. Licensee: Plains Radio Broadcasting Co., Radio Bldg.
- KGNF, North Platte, Nebr., 1430 kcs., 1000 w. days. Aerial: vertical, 190 ft. Manager: W. I. Le-Barron. Licensee: Great Plains Broadcasting Co., 1521 W. 12th St.

  KGNO, Dodge City, Kans., 1340 kcs., 250 w. unltd. Aerial: 2 towers, 105 ft. Manager: N. C. Petersen. Licensee: Dodge City Broadcasting Co., Inc., First National Bank Bldg.

#### TUBES Need to be Replaced

(Continued from page 21)

"Tubes," answered Wood. "Everybody seems to have tube trouble. One fellow came in and said his set developed a bad hum after it had been turned on for some time. I looked up his circuit and then advised him to take a new 47 for the power output, but he kicked like anything. Said he knew the tubes were good 'cause they all lighted. But I sold him one against his wishes, and he grumbled a lot." And Bill Wood looked to his Boss for his customary nod of approval.

He got it. But he also was puzzled to hear Turner say, as if to himself: "Hope the White's radio goes haywire again, and I don't care bow soon."



The Radex Club now numbers members in 40 states, in Hawaii, Alaska, Canada, England, Mexico, Honduras and New Zealand. Membership in our club is extended to everyone who has subscribed to our magazine since August 15 of this year. The entire family of RADEX readers, including all subscribers, however, resides in every state and province, and in 22 different nations.

We are now prepared to receive re-

quests for membership in the Verified All Continents group for the broadcast band and the amateur bands. To qualify for the Verified All Continents rating on the standard broadcast band (540 to 1600 kcs) Radex Club members must send at least one verification from a broadcasting station located on each one of the six continents. To qualify for this rating on the amateur bands, members must send at least two verifications from bona fide amateur stations located on each one of the six continents.

"In recognition of the Good Will demonstrated" towards his station T14NkH, Sr. Amando Cespedes Marin has named several persons as Caballeros de la NRH, and given them honorary membership in the NRH Fraternal Order. The Editor of RADEX is one of those so honored, as attested by a diploma and a medal, suitably inscribed, and bedecked with ribbons in the Costa Rican national colors.

The Editor had the pleasure of being one of a party of Sr. Cespedes' friends, to meet him at the pier when the ship which brought him from Puerto Limon docked at New York City.

David Thomas of Proctorville, Ohio, founder of the International DX'ers Society, wonders how many RADEX readers are eligible for membership in his society. He enumerates the requirements:

1: Applicant must have 1,000 broadcast band stations verified, over a distance of 1000 miles.

II: Applicant must have 1,000 shore-wave stations verified, 500 miles or more distant.

111: He must have ten long wave stations verified, at least three of them being broadcast, 1000 or more miles distant.

(Continued on page 96)

#### **Among The Clubs**

(Continued from page 95)

IV: Must have 1,000 amateur stations verified, over 2000 miles distant.

V: Must have three verifications from each amateur band.

VIa: Verification from 150 countries and islands.

VIb: 100 verifications from each continent.

Any of our readers who can fulfill these requirements are urged to correspond with Mr. Thomas for further details.

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#### NEXT MONTH in RADEX

In the December issue of RADEN we shall show the time on the air of all the North American Broadcasting Stations. Pacific Coast readers will be pleased to learn that the time will be shown in Pacific Standard as well as Eastern Standard.

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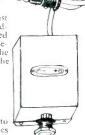
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