

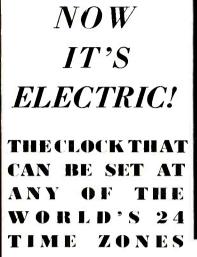


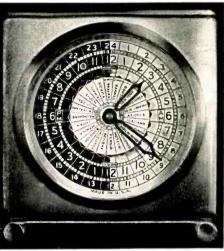
The All-wave Radio Log





A Ten Meter Converter Amateur News Shortwave Station List All the North American Broadcasting Stations 00000000000





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THE RADEX PRESS

14717 Detroit Ave.,

Cleveland, Ohio

MIDSUMMER, 1938







PAGE TAYLOR Editor

ASSOCIATE EDITORS B. FRANCIS DASHIELL, Technical CARLETON LORD, Broadcast

FOURTEENTH YEAR

NUMBER 120

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Interested in 10 METERS?

THE 10-meter radio band has become the most interesting portion of the ultra-short-wave spectrum. In this region, between 28 and 30 megacycles, remarkable radio transmissions are being accomplished. On the other hand, the band is erratic at times, being influenced by the things that affect radio reception, such as sun spots, magnetism, atmospheric disturbances, and what seems often to be the case, just plain, downright contrariness.

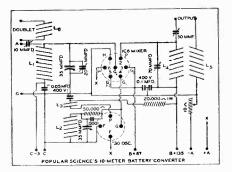
When the 10-meter band is working properly, and it is best in daytime, it is a thing of pleasure to the ardent radio fan who is equipped properly to enjoy its excellent DX properties. Unfortunately, few allwave receivers are constructed so as to reach down into these very short waves. Most sets stop just below the 20-meter band, where remarkable results also are obtained.

Special Receivers

Unless one is the owner of a fine communications type receiver, such as many amateurs use, reception with all-wave sets even on 20 meters is limited to those stations having sufficient power to come through and overcome interference. There are many amateurs on these shortwave bands, and very selective tuning with band spreading is needed before the listener can log an imposing array of DX amateur calls. And even this much is impossible on 10 meters with practically all the receivers now sold to the average radio public. Only those very large sets with special ultra-high frequency bands, for 10 and 5 meters (28 to 56-60 megacycles), can provide a small portion of this additional entertainment feature.

• • By B. FRANCIS DASHIELL

people Recently, some began again to consider converters. These units were much in vogue a few years ago before the coming of the all-wave receiver. Converters enabled the owners of broadcast sets to pick up a number of short-wave stations, and for a while they did service in thousands of heroic It was thought that the homes. converter was not practicable for very short waves, but, with the newer tubes and careful construction, the revival of the converter should become popular.



The Converter

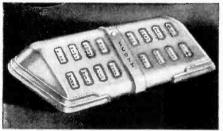
At last, after a period of experimenting, it has been found satisfactory to use a converter with an all-This little unit picks wave set. up the very short waves and converts them to a lower frequency that falls within the limits of some portion (usually a silent zone) of the tuning range of an ordinary all-wave receiver. Ten-meter converters are being made and satisfactorily used in many instances. There is no reason why converters should not be used extensively to open up the 10-meter band to those who heretofore have been unable to work in it.

Since the 10-meter band, because of its amazing low-power possibilities, is attracting amateurs as fast as they can arrange to work in it, it is rapidly filling up and already presents another problem of station interference when it is alive -frequently during the mornings. Therefore, a converter to operate in this band, must be carefully designed and assembled. Its operation. requires skill. These too. things, however, make it all the more interesting. Conversion on 10 meters is practical, for these signals will travel around the earth; but at half the wave length or twice the frequency, 5 meters or 56 megacycles, the problem is entirely changed. On 5 meters reception is limited to the visual horizon, the same as human seeing. Satisfactory converters for 5 meters have not been built, but there is no particular advantage to tuning to 5 meters-certainly, no DX thrills are involved!

Simple But Exacting

A number of converters have been described from time to time for the benefit of radio experimenters. Upon careful examination most of these have appeared to us to be too difficult for average construction. However, it is possible for anyone having some understanding of radio assembly to put together a small 10meter converter. With this in mind, we are mentioning a simple twovolt, two-tube, 10 meter converter, which, it is believed, will interest most of our readers who care to experiment further in the realm of high frequencies. This converter operates on separate "A", "B" and "C" batteries, and does not require filtered current from a complicated power unit. Batteries also make for quiet operation. It can be used with any all-wave receiver capable of tuning to around 4.0 megacycles (4,000 kilocycles). The converter

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is connected to the receiver's antenna binding post and will cover the entire 28-megacycle band with ease.

Coils Easily Wound

This little converter was first described by Popular Science Monthly magazine, in the January, 1938, issue. The circuit used, together with a brief description, is reproduced herewith for the benefit of the readers of RADEX, through Editor courtesy of the the SCIENCE. But POPULAR of for the complete chassis layout, photographs, list of parts, and easily understood details, as described by Harry D. Hooton, W8KPX, the reader is advised to procure a copy of the issue in question.

The actual construction involves little expense with no complicated situations. All specifications should be carefully followed. As shown in the accompanying circuit diagram, several small stiff-wire, self-supporting coils are utilized. They are wound with enameled wire to 34inch in diameter. Coil L₁, which tunes the incoming signals, has 8 turns of No. 14 wire; L₂, which is the oscillator, has 6¹/₄ turns of No. 14; L_s has 4 turns of No. 20; L_s , the output coil, has 20 turns of No. 30, closely wound, but 1¹/₂-inch in diameter on a tube; L₆, the output pick up coil, if the additional terminal is to be used for output to the all-wave receiver, has from 6 to 10 turns of No. 30, closely wound and beginning %-inch from the plate end of coil L₄; and L₆, which is used when a doublet antenna is utilized, has from 5 to 10 turns of No. 20, but wound in a direction opposite to L₁, which is used with a single-wire antenna.

Keep the radio-frequency lead from the converter output to the receiver antenna terminal as short and straight as practicable. Perhaps it may require shielding (which must

be grounded), extending from the output coil to the receiver. Tune the all-wave set to a quiet spot adjacent to the 3,500 kcs. amateur band and set the volume control. Then tune the converter over the 10-meter band. Any antenna may be used with the converter, but often a good doublet will tend to eliminate much of the automobile ignition interference.

Play Ball!

The games of the major league baseball teams will be broadcast over the following stations:

Boston, Bees and Red Sox: WAAB, WBRY, WEAN, WFEA, WICC, WLBZ, WLLH, WLNH, WNBH, WNLC, WSAR, WSPR, WTHT.

Chicago Cubs, home and road games: WHO.

Chicago Cubs and White Sox, home games: WBBM, WIND, WJJD.

Detroit Tigers, all games: WASH, WBCM, WELL, WFDF, WIBM, WJIM, WKBZ, WKZO, WOOD, WWJ, WXYZ.

Cleveland Indians, all games: WCLE.

St. Louis Cards, home games: KBTM, WTAD.

St. Louis Cards and Browns, all games: KFAB, KMA, KMOX, KRNT, WMT, WNAX.

Washington Senators, all games: WJSV.

Philadelphia Athletics: WFIL.

Philadelphia Phillies, home games: WCAU.

Pittsburgh Pirates, road games KDKA.

Cincinnati Reds, all games: WCPO, WHIO, WSAI.

A CHEERY LINE or Three

• • • By HEINZ MILARK WPSU-W2HAQ

A CCORDING to the definitions in the Count De Veries article in the April RADEX, this is a letter to "pass the time of day with a cheery line or three."

A

First of all, I think that I ought to identify myself and indicate the kind of a DXer I am. As so many report, I DX for the pleasure of hearing new stations and to add them to an accumulative log which has increased very slowly from the time it was started back in 1932. Occasionally I spent a night at the set, but most of my listening was when I found the time-and that frequently was during the twilight hours. My biggest thrill is still the reception of the then low-powered KTFI, although veries from YV1BC take top honors on the broadcast band.

As I was still in high school when I started the hobby, veries were a drain on the pocketbook and I stopped that after a while. Then I bought a short wave converter and found DXing more pleasant in daytime than during chilly nights. Also there was less chance of being growled at when accidentally tuning across a local at 4 a.m. with the power set for a Pacific Coaster. In this manner, I stacked up a few foreign QSL's, which I found more expensive, and some amateur cards. Soon I became really interested, learned the code, and became one of the amateurs. Now I'm operator on the S. S. Gulfdisc, an oilcan running up and down the Atlantic Coast.

Since travelling, I have been unable to develop a system of logging my catches and putting a yardstick on them. So I have dropped all systems and just keep adding to the list which includes stations long



Paul Douglas, is heard six times a week on a fifteen minute program of sports comments over the Red Network. The program, known as the Chesterfield Daily Sports Column, is broadcast over fifty stations, Mondays through Saturdays, from 6:30 to 6:45 pm, EDST.

since departed from the world of radio.

During the past few years, I've noticed so many freaks in the reception of broadcast stations, that I've come to the conclusion that almost anything is possible. I have a verie from WCSH which was heard early one afternoon with WAAT going full blast just across the river, yet the Jersey City station was pushed aside and I had no trouble getting data on WCSH.

Out at sea, one notices that long distance daytime reception is sometimes excellent. I have heard WEAF at high noon without any trouble when I was a thousand miles South of the station, yet a week later at the same spot I couldn't hear a thing. Sometimes we can hear WLW from the New Jersey Coast continuously all the way to Northeastern Texas, and on other trips we have trouble getting them at all. I have heard KNX with an old worn-out Emerson midget in mid-summer static while at the dock in Venezuela, and then the next day had difficulty hearing local stations down there.

My new location at home is about a half mile from the transmitter of WEAF, and it's one of the strangest locations I have yet come across. Time and again I have listened to WKAT completely pushing WWRL (supposedly a local) out of the picture, and yet I have still to hear KYW at that location. Almost any night the Cubans will push everything else off the dial, and those in the clear like CMCK and CMW are received just like WEAF. But queerest of all is the fact that the receiver, an RME69, refuses to pick up the DJ-stations, and most of the GStransmitters are weak, yet 2RO and IRF roar in.

On board here, with the newest in long wave receivers for ships, I get remarkable reception when static permits. The set has a tuned RF stage which makes all the difference in the world, a detector and two stages of audio, with all metal tubes being used. With this, I can hear 200-watt ship transmitters over a thousand miles away in the daytime. WPA (not a government project, but a coast station) at Port Arthur, Texas, can be heard with its two kilowatts 24 hours a day all the way from Texas to New York. And at that he is stronger 1500 miles away than when 550 miles distant.

For a while, I was always a jump ahead of RADEX when it came to the Cubans. Since we pass between Florida and Cuba, we get to a point where, with the exception of four U. S. stations, there's nothing on the dial but Havana. Once, while passing close to Santiago de Cuba on the way up from Venezuela, there was only a short distance of water between us and the stations, but nary a one could be heard. But a few hundred miles further on, when we had put the island of Cuba between us and Santiago, they all came in in fine style.

The BC log stands at 518 this morning, which shows what the FCC frequency checks will do. Fifty-one stations in one night—and in between I logged over 60 different police broadcasters, including KTAP a new one at Texarkana. KLPM was testing most of the night on 1360. Had no luck with KGMB, and KORE was the last one on the list to come through.

Now it is time to sign off, so I'll say best 73 to you all.

Ed M. Vickers of Coral Gables, Fla. reports good reception of HJ1ABR on 1400 kcs. This station is located in Cartagena, Colombia, Post Office Box 47. They were heard at 1:30 am, EST.

The WCAU broadcasting Company announces that the schedule of their international shortwave station, W3XAU, has been changed. The hours during which this station works are shown here in Eastern Standard Time.

On 6060 kcs, W3XAU transmits on Wednesdays from noon until 9 pm. On Tuesdays, Fridays and Sundays, the hours are noon until 11 pm.

On its 9590 kcs. frequency, W3XAU transmits on Mondays, Thursdays and Saturdays from noon until midnight. On Tuesdays, Fridays and Sundays it transmits from 11 pm until midnight, and on Wednesdays from 9 pm until midnight.



A S FATHER TIME tears another month from the calendar and Old Man Static releases yet another barrage of noise to cloak those distant signals from attentive ears, listeners North of the Equator decide to call it a season.

The time for the annual summer hibernation of DXers affords an opportunity to balance the logs, to check lost sleep against verifications received, and to arrive at a possible profit of personal pleasure or benefit derived from a winter of dial twisting.

It is usually rather difficult to hang up the earphones for a period of four or five months, and yet experience has shown rather conclusively that a complete layoff will help you face the next season with fresh enthusiasm. Apparently it's the time-honored rest cure, good for the soul of the DXer, and as long as it assists in maintaining an interest in DXing, it's okay by me.

And still it is with decidedly mixed emotions that this old night owl realizes that another winter season has gone its way. It seems only a few weeks ago that we were greeting the first cool night of last Fall, and yet the records show that a mighty eventful season has come and gone.

Reception Not So Bad

Everything considered, reception wasn't at all bad. A lot of us had

been led to believe that the sunspot hokus pokus was going to make DXing plenty tough. To hear some of the lads moaning over their dials, one would have thought that reception would be limited to the 50-kilowatters within a hundred mile radius. But the reports of the past six months indicate that a lot of the boys got their share of some read DX.

Looking back over my own log, the 1937-38 season really got under way during the last week of September, when the first new catch was logged. During October a performance check was made on the Hallicrafters Super Skyrider communications receiver, and it was then that the stations began to roll in. Hundred-watters on the Pacific Coast put in their first appearance of the while the larger stations year, showed exceptional strength. Carriers from across the Pacific were heard, but no actual programs could be logged.

Early in November found the stations pounding in from all points of the compass. Static was diminishing in intensity and, on occasions, even became a negligible factor. Throughout the United States, dozens of newly-authorized stations ran DX programs and equipment tests. New broadcasters in Cuba and Mexico pushed signals through the barrier of domestic transmissions.

Along toward the middle of the

month—November 12th, to be exact —the first European of the new season was logged and Rennes was entered as a new addition to the log. Within 45 minutes on the same morning, seven other trans-Atlantic stations were heard. On subsequent mornings, many of the Germans were heard and frequently it was possible to hear as many as seven to ten Europeans during one session at the dials.

By this time, the Aussies and Zedders were showing their noses over the horizon. Old reliable 2YA was the first to be heard, and was soon followed by 1YA and 3YA. From Australia, 2NR was outstanding with a fine signal, and 2BL, 2CO and 3LO showed to advantage. KHBC continued to pound through with a potent wallop, easily leading the other two Hawaiian stations.

December found reception continuing to pick up at a very satisfactory rate. On one morning in particular, no less than 13 Europeans were logged between 2:30 and 3:15, and it was an odds-on bet that others could have been heard had there been time. French stations such as Rennes and Bordeaux Fecamp. showed the best signals I've ever heard from across the big ditch, while the fanfare from Poste Parisien was a treat for sore ears.

January and February found DX continuing in high gear, and many South and Central Americans were able to sneak through the domestic barrage. Pacific Coast stations were particularly strong and, for the first time in three or four years, it was possible to dial stations like KFI, KNX, KPO and KGO and really enjoy the programs. Even the little hundred-watters showed good S5 signals.

Looking back, the past season proved to be as good as any during the past seven years. The static

may have been a bit heavier on a few occasions, but the increased power of many stations more than compensated for that. And the frequent appearance of so-called "ideal DX mornings" found reception good enough for the average listener to go out and get himself a lot of stations.

In the light of my own experience, it seems likely that a lot of DXers paid too much atention to dismal prognostications and too little attention to actual dial twisting. If some listeners would forget about sunspots and all-nighters, and give their fingers and ears some exercise, chances are that they would have heard a lot of new stations.

Club Re-Organizations

The 1937-38 season found several administrative changes in some of the DX clubs. Some of the details are still a trifle vague, due to a lack of authoritative information, but there were at least two complete reorganizations of interest.

It was a little less than a year ago that the Globe Circlers DX Club announced the resignation of Raphael Geller, who had been acting as Editor since the previous resignation of William Wheatley. The administration of GCDXC affairs was taken over by Arthur J. Parfitt, of Cleveland, and Harry M. Gordon, of Erie, Pa.

At approximately the same time, Robert H. Weaver announced that he would be unable to continue his position as president of the National Radio Club, asked for volunteers to take over the operation of the club.

It wasn't long until NRC members were advised that their new president was Arthur Parfitt, of Cleveland, and that Bob Weaver would continue in the organization as vicepresident. For a time, the NRC and GCDXC apparently were opera-



Mary Louise Quevli, NBC vocalist, is rapidly gaining recognition as one of the young artists destined for national stardom. In radio but a short time, the young soprano has non a large following. She is heard on Wednesdays during the Continental Varieties program, at 3 pm, EDST, on the Blue Network.

ted by the same Lake Erie group, and then the latter club returned to Brooklyn and its old editor Raphael Geller. Most recent changes in the NRC finds the resignation of Parfitt as president, and of Carl and Anne Eder as Secretary and Short Wave Editor respectively.

Teachers of story-writing technique contend that no character should enter a story without fulfilling some definite purpose, so it is now possible to go back three paragraphs, pick up Bill Wheatley and install him as editor of the UDXC bulletin, replacing Al Stansfield who continues as president.

I.C.C.P. Bogs Down

Another highlight of the past season, although of the kind about which one doesn't like to write, was the virtual demise of the Inter-Club Co-operation Plan. When Emily Griswold retired as Clearing House Operator a year ago, the Plan appeared to be headed for the rocks. Although admittedly the most practical solution evolved to date, it was given haphazard support by some of the co-operating clubs. And so it was no great surprise that Miss Griswold's resignation was accepted by some officials as a good way of letting the Plan die a natural death.

UDXC's president Stansfield helped give the Plan a new lease on life by getting retiring NRC president Weaver to accept the responsibilities of Clearing House Operator, by persuading the various clubs to renew their pledges of co-operation and support.

But apparently this was merely a last gasp for breath. From mid-October to the first of February, reports of surprisingly-few programs were released by the Clearing House. Then a lapse of two weeks in which no reports were issued, another report dated February 20th, and since then complete silence.

With the Clearing House closed for reasons unknown, it is significant that no club has made any inquiries, made a move to install another Clearing House Operator, or showed any interest in a continuation of the Plan after February 20, 1938.

All of which would lead one to believe that the ICCP has served its purpose, and may now be considered a closed incident in DX history.

"Dear Listeners"

Short wave listeners of the world long have been aware of the increasing stream of propagandist broadcasts originating in European countries. Newspapers and magazines repeatedly have reported and editorialized what has become a gargantuan "war of the ether."

Early in March the Federal Gov-

ernment took first official cognizance of the situation, took steps to counteract the effects of German and Italian broadcasts to South America. Appointed by the President was an 11-man interdepartmental Committee, headed by FCC Chairman Frank McNinch, to study the subject of international broadcasts, to determine whether the United States should broadcast to South American countries.

Simultaneously, the British Broadcasting Corporation announced the construction of two new 40-KW transmitters at Daventry for Spanish broadcasts to Latin America.

And so the international radio war assumes new proportions, with the democracies pitted against the dictatorships, and no holds barred!

Soviet Russia, Fascist Italy and Nazi Germany didn't take long to realize the tremendous possibilities afforded by international short wave transmissions for the dissemination of their respective doctrines. Dictator Stalin quickly organized a group of stations ostensibly to cover the vast Russian territories, but slyly colored the news with Red propaganda. In no time at all, the Soviets were broadcasting in a score of languages, creating no little commotion in many countries. Hitler was so disturbed at this aerial invasion of the Reich that he forbade any one to listen to Moscow, and today many Germans are serving prison sentences for this offense.

American listeners have been affected but slightly by Soviet transmissions, as the stations lack sufficient power to provide reliable reception.

Fascist broadcasts have been aimed in many directions. Europe and North America soon found it easy to dial the Rome stations, which presented attractive programs with announcements in different languages. Reports from listeners were



The Easy Aces. Jane Ace, on the right, talks with Goodman Ace and "Marge" about their script. "Marge" is an accomplished writer as well as a fine actress.

encouraged and dialers began to like the sugar-coated Fascist pills. Even though they may have realized that they were being led by their ears, listeners tuned regularly to the Italian frequencies.

But it remained for Germany to show the world what real coverage meant. With super-power transmitand arrow-like directional ters aerials, they bombarded every part of the globe. With a technique which could only be compared with that of the major networks, the programs were brilliantly arranged. As a result, the listener not only received a very fine signal, but he also heard a varied program of real merit. Of course, propaganda was cleverly woven into every broadcast, but the carefully-written talks by the foreign language announcers made pretty good listening.

Most Americans are familiar with the type of programs intended for consumption in English-speaking countries. Dedications to various organizations, salutes to individual states and cities—all have been intended to create good will.

Broadcasts of a slightly different color lately have been aimed at

(Please turn to page 95)

The Radio Codes EXPLAINED

UNING a radio set and logging elusive stations is considered as the most thrilling of all hobbies by most of the readers of this magazine, but there must be a large number of fans who are not deriving the fullest possible amount of pleasure from their sets, if we are to judge by a pile of letters that has accumulated during the past year.

A large portion of our mail consists of questions from readers who have just started to tune and who want to know what a kilocycle or GMT might be. All such queries are answered direct, but for the benefit of the dial twisters who have similar questions in their minds, we publish, once a year, an article designed to answer all these and similar questions.

While the design of the modern radio receiver is such that no previous experience or special skill is required for its proper operation, its full possibilities can be realized only by those who are familiar with the general characteristics of transmission on the higher frequencies. It should be understood that shortwave reception is not governed by fixed laws of nature but rather by flexible conditions over which man has no control, and that there can be no hard and fast rules for shortwave tuning. Nevertheless, certain general results have been observed. the most common observation being the condition known as "skip distance."

Transmitted signals of any wavelength are known to divide into two components, the "ground" wave and the "sky" wave. The former remains close to the earth's surface and provides reliable service only

• • • For New DXers

over short distances from the broadcasting stations. The sky wave. however, travels into the higher layers of the atmosphere and is reflected back to the earth's surface at a considerable distance from the station. With shortwave signals the sky wave does not return within the area covered by the ground wave, and the region between the area covered by the ground wave and that covered by the sky wave is known as the skip distance, a deadspot region within which reception is impossible or unsatisfactory.

Reception on six megacycles is most reliable when received from a distance of 300 miles or more, although good reception at much greater distances can be expected



Al Garr is the rising young tenor heard over the Columbia Network on the Phil Baker program. Al was born in Hong Kong, and reared in Charlotte, N. C.

when a large part of all of the path of transmission lies in darkness.

Stations near 9.5 megs. are most reliable when heard over distances greater than 800 miles. Good reception from distant stations in this band is possible both in the daytime and at night.

Stations at a distance of 1000 miles or more from the receiver come in well near 11 megs. This band is best during daylight hours but distant stations can be heard sometimes until midnight, especially in the summer time.

Around the 15 megacycle band stations situated at a distance of 1500 miles or greater will be found most satisfactory. These signals are generally heard in the daytime, but in the summer this band stays "open" until nearly midnight.

Wavelengths-Frequencies

The energy radiated from a radio station is emitted in the form of waves, similar to the ripples produced when a stone is thrown into a body of water. Each ripple is called a "wave" and the size of each ripple is called the "wavelength." Wavelengths are always measured in meters. Therefore, when a station is said to transmit on 200 meters, it is meant that each wavelength produced by that station is 200 meters long.

It is generally more convenient to classify stations by frequencies rather than by wavelengths. The number of times that a complete wave is produced within one second is the station's frequency. Frequencies are measured in kilocycles. A station that is operating on a frequency of 9000 kilocycles per second, is radiating 9000 complete wave forms within a second.

A megacycle is 1000 kilocycles. A frequency of 9000 kilocycles is equal to a frequency of 9 megacycles.

The abbreviations for these various forms of measurement are, the Greek letter "L" (similar to an inverted Y) for wavelength. "Kcs." for "kilocycles per second." "Megs." for "megacycles per second."

In the RADEX shortwave indices, frequencies are given in megacycles per second. To convert these to kilocycles, change the period to a comma. Hence, 6.130 megs equals 6,130 kcs.

Power

The amount of power that a station uses is measured in watts. Stations with high power use the unit "kilowatt" (abbreviated kW) which is equal to 1000 watts.

Time

The 24-hour clock is used to indicate time in the RADEX indices. This system of indicating time is not at all complicated—instead of dividing the day into two twelve hour divisions, a. m. for the first section and p. m. for the second, the day is considered as 24 hours long, from midnight to midnight. The day commences at midnight, which is indicated by four cyphers (0000), and continues to the next midnight, which is 2400. Four digits are always shown, the first two digits representing hours and the last two Thus, 1 a. m. is digits, minutes. written 0100, 2 a. m. is 0200, 4:30 a. m. is 0430, etc. Noon is 1200 and 1 p. m. is 1300; 11 p. m. is 2300 and midnight is 2400 or 0000.

This may seem a bit confusing at first, but soon it becomes quite natural to think of 2 p. m. as 1400 or 10 p. m. as 2200.

Greenwich Mean Time (GMT) is the sun time at Greenwich, England, and has been universally adopted as International Time. The time at nearly every locality in the world is calculated to agree with GMT in minutes and seconds, but to differ in hours by whole numbers. As an example, the true sun time of New York City is 4 hours 56 minutes slower than Greenwich, but the standard time differs by exactly five hours.

Greenwich Mean Time is universally understood and local time should be converted to GMT when writing to foreign stations for verifications.

Radio Districts

The United States is divided into nine districts, and the district in which an amateur or experimental station is located is shown by the number which follows the W— or K— prefix. The districts are divided as follows:

First District (W1—) includes the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont.

Third District (W3-) includes the States of Delaware, Maryland, Virginia, and the District of Columbia. In New Jersey, all the counties not included in the Second District, and in Pennsylvania, all the counties south of the Blue Mountains.

Fourth District (W4—) includes the States of Alabama, Florida, Georgia, North Carolina, South Carolina and Tennessee.

Fifth District (W5—) includes the States of Arkansas, Louisiana, Mississippi, New Mexico, Oklahoma and Texas.

Sixth District (W6--) includes the States of Arizona, California, Nevada and Utah.

Seventh District (W7---) includes the States of Idaho, Montana, Oregon, Washington and Wyoming.

Eighth District (W8—) includes the States of Ohio and West Virginia, all the counties in New York not in the Second District, all the counties in Pennsylvania not in the Third District, and the Lower Peninsula of Michigan.

Ninth District (W9—) includes the States of Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Wisconsin, and the Upper Peninsula of Michigan.

K4 includes Puerto Rico and the Virgin Islands.

K5 includes the Canal Zone.

K6 includes Guam, Hawaii and Samoa.

K7 includes Alaska.

International Prefixes

All the radio-using countries in the world are assigned, by International Treaty, a letter or a set of letters to be used as the initial letter in their call signs. A complete list of the International Prefixes will be given in RADEX next month, but here we give a short list of the most common assignments.

The letters K, N and W are assigned to the United States. Gt. Britain has the letter G, Germany uses D, Italy has I, Japan has J, and the letter F is used by France. All the other countries use groups of letters, as, for example, Mexico, China and Burma share the letter X, and Colombia, Haiti, Dominican Republic, Vatican State, Siam and others share the letter H. Watch for the complete list to appear next month.

The Spanish Alphabet

Familiarity with the pronunciations of the letters of the Spanish alphabet is essential if one is to identify the large number of Spanish-speaking stations on the air. It is given below:

A, Ah	F, Ef-fay
B, Bay	G, Hay
C, Say or thay	H, Ah-chay
D, Day	I, Ee
E, Ay	J, Ho-tah

K, Kah	S, Ess-say
L, El-lay	T, Tay
M, M-may	U, Oo
N, En-nay	V, Vay
O, Oh	W, Doo-ble-vay
P, Pay	X, Eckis; ay-kis;
	ek-key
Q, Koo	Y, Yay
R, Air-ray	Z, Zeđ.

These pronunciations are given the way they sound on the radio and may not agree with Spanish Slightly different textbooks. accents are heard in different countries, which accounts for the difference in pronunciation of some of the letters.

The Spanish numerals, also very important, are given below:

One, Oo-no	Six, sase
Two, Dose	Seven, Sate
Three, Trace	Eight, Oh-cho
Four, Koo-ah'trow	Nine, Noo-ay-ve
Five, Theeng-ko	Ten, Diez

Amateur Lingo

Radio amateurs have a lingo all their own and anyone who listens much should become in verv familiar with some of the expressions used, such as "OM", meaning "Old man." "YL," meaning or "Young Lady." Amateurs must be diplomats because every good feminine operator is a "young lady" regardless of her age. An amateur's wife is his "XYL."

The most common term heard is "CQ," which is a general call to any station. "73" is the ham's way of saying "best regards" and "vy 73" is "very best regards."

To save the trouble of sending a lot of dots and dashes many words are shortened in code transmission, and these short forms are often seen A few samples are in print. "xmitter," "xmission," "xtal" for transmitter, transmission and crystal respectively. "DX," is a shortened form for "distance." The word schedule" is often spelled "sked."

Your is "ur." Thanks is "tnx." Good is "gud." From is "de." And The letters "FB" mean is "es." "fine business," or, in other words, "very good," as a "FB receiver." "Hi" is a laugh in code. The seldomheard "88" means "love and kisses."

An operator is an "op." His typewriter is a "mill." His transmitter is "junk" or a "rig." The aerial is a "Sky wire" and the aerial poles are "sticks." His hand is his "fist."

A QSO is communication between two stations.

A QSL is an acknowledgement, as a QSL card, which verifies reception of a transmission.

"CUL" means "See you later," and "CU agn" means "See you again."

A QRA is a station's address.

CW means "continuous wave" and ICW stands for "interrupted continuous wave," CW and ICW are two forms of code transmission.

Commercial operators use the symbol A1 for continuous wave, A2 for interrupted continuous wave, and A3 for voice emission. Condition "A" is inverted modulation or "scrambled speech," and Condition "B" is intelligible speech.

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 moderately 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.

Some persons describe radio signals further by employing the S and X symbols, S to indicate fading and X to indicate static, in this manner:

S is slight fading. SS is deep fading. SSS is a complete fadeout. R is rapid fading (fluttering). X is slight static. XXX is bad static. XXX is very heavy static. The letter N indicates that either fading or static was not present.

These symbols are written like this:

- (a) QSA5, R7/S/XX
- (b) QSA4, R7/N/N

Example (a) means that the station had a perfectly understandable signal at moderately strong volume, with slight fading and bad static. Example (b) means the station was easily understandable at quite strong volume, no fading and no static being present.

Reply Coupons

When writing to foreign stations, an International Reply Coupon should be sent to pay return postage; pennies or stamps should never be sent because they are no good outside our own country. Reply Coupons cost nine cents each and can be purchased at any post office.

When buying Coupons be sure they are properly stamped. The postmark should be applied to the left side of the Coupon, above the words *Timbre du Bureau d'Origine*. They are void if not correctly stamped.

The new Laredo, Texas station on 1500 kcs, KPAB, is expected to come on the air about the first of June. Studios are in the Hamilton Hotel.



From Singapore

Three stations in Singapore are operated by the British Malaya Broadcasting Corp., Ltd., on Thomson Road. In the broadcast band is ZHL on 1333 kcs, and on shortwaves are ZHO on 6012 and ZHP on 9530 kcs.

ZHO, with 400 watts power, relays ZHL on Mondays through Fridays, inclusive, from 5:40 to 9:40 a.m., on Saturdays from 5:40 to 9:15 a.m., and on Sundays from 5:40 to 7:40 a.m.

ZHP, also using 400 watts, relays ZHL on Wednesdays from 12:40 to 1:40 a.m.; on Saturdays from 12:25 to 1:40 a.m., and on Sundays from midnight (Saturday) to 1:10 a.m. All times are EST.

ZHL. on 1333 kcs with 2 kw power, transmits on Monday and Tuesday from 5:40 to 9:40 a.m.; on Wednesday from 12:40 to 1:40 a.m., and from 5:40 to 9:40 a.m.; on Thursdays and Fridays from 5:40 to 9:40 a.m.; on Saturdays from 12:25 to 1:40 a.m., from 5:40 to 9:15 a.m., and from 10:40 p.m. until 1:10 a.m. Sunday; and on Sundays from 5:40 to 7:40 a.m.

Some of Our Readers' TROUBLES

• • • By the TECHNICAL EDITOR

Local Interference

HAVE a 1938 11-tube Super-Skyrider and experience interference from WOR over the broadcast band. I took the set to my dealer but he has been unable to give any help. I was told to bypass the A. C. line to ground, but that was a failure. Then someone else told me that a high fidelity set that was sensitive was sure to have some local interference when the local was such a powerful station. I can also hear it where WEAF comes in, but only when that station is on the air. The short aerial, which I am using, makes no difference.

It is true that a high fidelity radio receiver, when tuned to the broadcast band, lacks sharp sensitivity unless the "distance" switch is used. A broad band is necessary to pass all audio frequencies and, therefore, interference is to be expected from stations operating close to the one being received. When the interfering station is a very powerful one, then it is apt to be heard when stations from a distance, but adjacent on the dial, are tuned in. However, the interfering station should not be heard all over the broadcast band dial, and not at all on the short-wave dials. Sometimes, when a station is being heard, interference from a strong local will be picked up because of some combination of frequencies or harmonics that may exist at that particular setting. This matter of repeat or image frequencies as well as harmonics and interference could fill a thick volume, and can scarcely be scratched on the surface here.

Strong local stations, because of their great signal energy, force their way into the pre-selector stage and first-detector of many receivers. The use of a short aerial seldom helps, for it will still bring in the local with a strength that remains proportionally balanced to distance signals.

In our opinion, a good wave trap usually offers the easiest solution to these vexing problems when the set itself is not at fault. Since station WOR operates on a frequency of 710 kilocycles, a good wave trap made to cover a band of from 500 to 800 kcs., or the long-wave half of the broadcast dial, should prevent this interference. There are standard wave-trap types with shielded coil circuit and screw-driver adjustment, as well as a good dual wavetrap having both series and parallel circuits and double knob adjustments. In either case, a trap is connected in series with the aerial leadin, and the adjustments tuned so that the interfering signal is heard at minimum intensity when the dial is tuned directly to that sta-The trap, fully adjusted, is tion. left in the aerial circuit and will not prevent the normal operation of the set at other frequencies.

More Pre-Selectors

I have a Zenith 9-tube, 1938 receiver, but wish to use a pre-selector. Can I make one from the parts and tubes in my old Crosley midget 4tube set? Please give me a circuit using this old receiver.

We doubt whether the Zenith 9tube set will be helped by using a pre-amplifier unit. The Zenith now has plenty of sensitivity and volume, and an additional pre-selecting stage or two, while increasing the strength of the signal passed into the set, will also raise the noise level to an unsatisfactory degree. We feel that this idea might not be so satisfactory. Of course, you will get more and stronger signals with a pre-selector, but with this excellent receiver you now have very good sensitivity and volume.

The parts and tubes in the old Crosley might be made into a preselector. You could use the power unit to provide filament current and plate potential. The one stage of radio-frequency amplification and first detector would provide the signal amplification. But the circuit is such that everything would have to be altered, and there are no coils and tube arrangements that seem satisfactory. We think the idea not worth the while, for, after all, a pre-selector must be designed and arranged carefully for maximum signal pick up. Its present coils would tune the broadcast band only. while vour receiver covers all waves.

Battery Sets

I have been trying to find some diagrams of battery operated broadcast receivers. Could you supply these? I am also interested in building a treasure locator that can be made of radio parts. Can you help me?

We might be able to help you out with copies of circuits, but there are many types of battery operated broadcast receivers. It might be that you are interested in small. simple sets, or complicated superheterodyne receivers. The former are easier to construct. This magazine, as a rule, does not investigate or design such circuits; leaving that field to other more specialized publications. But with a little more data from you we shall be glad to recommend one and explain its assembly. In the meantime, however, we suggest that you examine Meissner's "Build Your Own," small booklet, which sells for about one-half dollar. Also, the more modern battery sets operate from a 6-volt storage battery and use a vibrator to create

high-potential alternating current for the set.

Several so-called treasure locators have been built and described from time to time. They usually operate with a small loop antenna and portable receiver fitted with a registering meter instead of headphones or speaker. Any mass of metal buried below the surface of the earth will cause the needle to take a dip. A portable transmitter also is necessary. Some devices have been fairly truthful in their response to buried metal, and even water pipes can be located. However, unless one knows that a considerable mass of treasure is buried in one spot, the device will indicate tin cans, pipes, and sewers, and keep you pretty busy digging, particularly in some localities. We suggest you write the Editors of a few of the popular scientific magazines for a list of articles appearing in their publications describing treasure locators.

"Wings" Receiver

I have a Goodyear "Wings" receiver. What is the best antenna to use with this set? Please tell me who made this set, and give their address.

If you live in a place where manmade electrical interference need not be considered, a noise-eliminating antenna system will not be required, although the set has a special connection for doublet antennas of that type. We believe that a single wire, No. 14 copper, about 40 feet in length, stretched tightly between two high supports, and with as short a leadin of the same size as may be practicable, soldered to one end of the flat top wire, will provide a very good antenna. Α good ground, of course, must be used. See a recent article in RADEX on the location and use of grounds.

The "Wings" receiver is made by the Belmont Radio Corporation, 1257 Fullerton Avenue, Chicago, Ill. These sets work very nicely, but tubes and battery require watching. Have the tubes tested and make sure the socket contacts are bright and tight whenever the set seems to weaken or give trouble. The 6volt battery should register its full potential at all times.

Erratic Volume

When I touch the local-distance switch of my R. C. A. 46 receiver, the volume drops, but when I place my hand near the first R-F transformer the volume rises. This transformer is a new one, and the switch seems to test perfectly. Please tell me what is wrong.

There is a lack of properly balanced capacity and inductance in this circuit. When you replaced an old R-F transformer with the new one did you procure one of the proper size to match the rest of the sef? Are all the contacts, soldered and otherwise, well made? We think the R-F stages require re-aligning if the coil winding and its connections are as they should be. The set can be realigned by adjusting the screws at the trimmers on the gang tuning condenser. Pick out a station between 600 and 700 kcs. and adjust the trimmers for maximum response. Adjust at the other end of the dial for a station near 1,500 kcs. Repeat this operation several times for perfection of alignment. Check the R-F tubes, and sometimes a type '35 tube used as replacement will improve reception. Failing in these things, the wiring of the circuit must be carefully checked for shorts or breaks. The local-distance switch also may be shorted in some way or improperly connected in the circuit.

Zenith Out of Line

On my Zenith 5-S-119, all shortwave stations sometimes vary as much as two divisions of the "second hand," and each shows almost the same amount of variation. This is not due to back lash or dial trouble. Also, a few 31 meter stations come in again around 9.0 megacycles. Occasionally, when the power is on full, there is considerable vibration.

When there is a regular variation in dial readings, or all stations seem to be "off" an equal amount in their dial readings, it is reasonable to believe that the dial is out a small fraction, or that the alignment of the set is such as to make it appear that the dial is misplaced. Of course, the proper thing to do is to see a good service man and have the trouble remedied quickly and easily. A set of this type, without R-F amplification and only with detector tuning circuits, can get out of step by mechanical changes in tuning adjustments. This set has a wave trap (on rear of chassis) that may require adjusting. With a signal generator a known signal can be sent into the set and its misalignment noted. The generator, set at 1,400 kcs., is used to adjust band "A" by means of the trimmer located in front of the 6A8 tube. Adjust also the antenna trimmer on gang condenser. At 456 kcs. adjust the four I-F trimmers for highest reading on output meter. At 6.0 megacycles adjust oscillator trimmer on the gang for correct dial reading. This will locate the 6,000 kcs, point exactly on band "B." With signal generator at 18 megacycles, and set switched to band "C," adjust the short-wave trimmer in front righthand corner next to oscillator coil. Then readjust the broadcast band "A" at 600 kcs., by using the padder trimmer at left of rear-half of tuning condenser for greatest output signal reading on the meter. Readjust broadcast trimmer at 1,400 kcs.

It is believed that a careful realignment will bring this set back to its proper dial readings, but the stations that are supposed to come in on 31 meters and then repeat on 9.00 megacycles might not be eliminated. If they are powerful stations this repeating might be difficult to eliminate if a careful readjustment does not remedy the trouble, because of the limited pre-selection facilities of this set.

All-Wave Antenna

Please tell me about my all-wave antenna used with my Zenith 1938, model 7-S-258. This antenna fails to work well on 16, 19, 25 and 49 meters. But it does bring in stations nicely on 31 meters. So I discarded the antenna and put up an aerial 125 feet long which works well on all wave lengths. Is the trouble in the set or antenna?

Certainly you have made a good test on this receiver, for if it brings in stations well on a long antenna. and not so good on the all-wave aerial, it proves that the set is satisfactory and that the all-wave antenna does not respond on all frequencies. Of course, the 31-meter band in the radio spectrum is one of the most popular on short waves for it gives the most consistent reception in day and night. The shorter bands, such as the 20 and 10-, meter regions, are temperamental at times and cannot always be depended upon to bring in stations. Your tests might have happened at those times.

Usually, a single-wire antenna, from 40 to 60 feet in length, and as high as practicable, is sufficient for all wave lengths. The all-wave, however, is supposed to be scientifically cut to resonate at all frequencies or harmonics thereof, and, therefore, should pick up stations on all waves. The antenna design, however, is critical, and sometimes cannot be depended upon to work so well. You have not stated the type or make of antenna being used. For the Zenith, a doublet, each leg of which is 30 feet in length, with twisted noise-eliminating leadin of any length, will be suitable. Set your all-wave up north and south,

or northeast by southwest, instead of east and west, for European reception. But the single-wire should be pointed directly toward the stations it is desired most to receive. The receiver is not at fault, as long as reception is good on the singlewire aerial.

Dial Reading

I would like to know how to read my dial. It goes from 1.7 megacycles to 6.00 megacycles. I understand the other dial, which runs in kilocycles, such as 550 to 1,700.

Radio dials are now graduated in kilocycles, but some years ago everything was in meters-the measure of wave length. Now the measure is by frequencies or number of waves per unit of time-a second. Because radio waves have high frequencies they are grouped into units of 1,000 cycles each. These are called kilocycles, and 550 kilocycles means 550,000 cycles. This makes an unwieldy number, so we say kilocycles instead. For low frequencies, such as our lighting current, we use cycles only, as—60-cycle alternating current (A. C.) Now, as we get into the shorter waves, the frequencies become very high. and if we used simply the term "kilocycles," the number would again become unwieldy. So we group kilocycles together into a thousand each, and call the result megacycles. For instance, 2 megacycles is 2,000 kilocycles, or 2,000,-000 cycles.

On your dial the longer waves, or lower frequencies, such as the broadcast band, will be given in full kilocycles, such as 550 to 1,700. Sometimes the last zero is dropped, and the dial will read from 55 to 170. A station that comes in on 1140 kilocycles will be found at that point on the dial, or perhaps at 114, as the case may be.

Now, on the short-wave dial, where the kilocycle figures would take up too much space, you will find the graduations given in megacycles. A station at the high end of the dial (in meters) that operates on 1,700 kilocycles will be found on 1.7 megacycles, which is actually 1,7(00) kilocycles. At the other end of the dial, the 6.0 means 6 megacycles or 6,0(00) kilocycles. A station that is listed in RADEX as operating on 9.65 megacycles will be found at 9.65 on the short-wave dial, or at 9,650 kilocycles on a dial that is not graduated into megacycles.

Band Spreading

Can I replace the present I-F transformers in my Grunow 640 receiver with Meissner Band Expanding Iron-Core Transformers? I wish to use variable selectivity with this set so I can work on the congested amateur bands. Do you advise a Transfilter or crystal so that I can separate the code signals and pick some of them up for long distances? The chances of logging stations below 160 kcs., as the set is now, are just about nil. Will the same power supply in this set carry the load of an added beat oscillator and twostage pre-selector?

Of course, in any case, the I-F transformers of a receiver can be replaced with more selective coils. After all, the I-F transformers are more or less the same in all makes and designs. But, when you speak of band spreading, you are getting into something different. Good band spreading consists, among other things, of breaking up the tuning circuits into smaller units covering less kilocycle ranges, so that the tuning condenser will have a wider movement between the coil limits. stations This tends to separate farther apart and thus permit congested stations to appear in the opened channel. For this kind of reception the I-F coils must be very sharply tuned for the prevention of interference. In your case the transformers must be peaked at 465, but some few of these models were

peaked at 490 kcs. instead.

The band spreading transformers of which you speak may not be the type for band spreading CW and short-wave work. A band expanding iron-core I-F transformer usually is a type required for broadcast reception, when a wide band with low selectivity permits most of the audio frequencies to pass by with what is termed high-fidelity reproduction. The change over from high-fidelity on the broadcast band to sharp CW on short-wave is accomplished electrically. The use of these coils will give selectivity that will bring in code signals on less than 200 meters. In addition to the type you mention the Miller Company has a variableselectivity coil which also gives the high degree of selectivity necessary for good DX reception, and a band width great enough for the reception of high-fidelity programs from powerful broadcast stations. Α simple electrical method of changing coupling does not require mecontrol of adjustment. chanical other than a toggle or snap switch.

Other than improving the selectivity of your set with these types of coils, we cannot recommend other means of band spreading in the sense of providing wide tuning channels to separate congested short-wave stations. Such would require many circuit and unit alterations, and the effort would fail to produce the results desired by you. A crystal might be installed in the I-F circuit so as to get additional sharpness of tuning, but at considerable loss of fidelity on voice. It can be used in your set because of the 456 kilocycles intermediate fre. quency.

A one-tube beat oscillator, connected to this set, so that true CW signals can be read, will not greatly overload the power supply. It is likely that a two-tube pre-selector also will operate without too much drain, but the addition of both units, or three tubes, will, in our opinion, prove to be too heavy a load on the limited resources of this receiver.

Unbalanced Set

I have a D-50 Lafayette receiver which has been rebalanced twice. It stays put about 3 or 3 days and the dial then goes off as badly as ever. The stations on the short-wave dial will move up or down, either way, as much as 15 kilocycles, all the time, making it necessary to keep the dial turning slowly one way or the other. Is there any device that I can use to keep this set in balance?

It is apparent that this receiver has a bad case of dial "creeping." Not that the dial actually moves, although that often is the case when the dial and driving mechanism is loose, but the frequency of the signal being received changes slightly either above or below the proper rating. It can not be said that such trouble is a fault of the receiver or its design, but is a defect that might come to any if certain situations arise. Frequency "shifting" may be due to the oscillator tube in your receiver, and replacement with a new oscillator, or combined oscillator and detector, might solve the entire problem. Shifting of this kind is more noticeable on the short waves than on broadcast waves because the former are sharper, and slight frequency variation beа tween the oscillator rating and the incoming signal will be registered as several divisions of the dial, particularly if the I-F transformers pass a broad signal, as they actually do in high-fidelity receivers.

Among other faults are the failure of a coil in the oscillator circuit; dampness in a coil which must be removed by careful drying; slipping oscillator tuning condenser; and defective or loose I-F transformer windings. Since trouble of this kind calls for careful servicing, we suggest that you take the set to a good radio technician who has suitable measuring equipment, or communicate with the manufacturer with a view of obtaining factory examination, repair or replacement of the necessary parts.

Short Waves Dead

I have lots of trouble in getting anything at all on the short-wave band of my Stewart Warner model 147 all-wave set. The set has been looked over and found all o.k., but to me it does not bring in the shortwave stations. I have a good allwave antenna and ground on the cold-water pipe. What is wrong?

Since the set has been examined and found to be in a satisfactory condition, we are inclined, as always, to wonder if the operator has had experience in picking up the short waves. It is much more difficult to tune in the short waves than the usual broadcast-band signals that are broader and easy to locate as the dial is turned. Then, too, short waves do not come through consistently well every day, and there may be times when you could not hear signals with a much more powerful receiver. However, sooner or later, one is certain to hit upon short-wave signals and begin to log them day after day.

Perhaps the most common failure of a set to pick up short waves is due to trouble in the oscillator circuit. Even if a set tests perfectly, unless the high frequencies are carefully checked, it will be dead on those frequencies where the oscillator fails to function and set up the beat or intermediate-frequency that causes the receiver to reproduce signals.

Failure of an oscillator on short waves may be due to the tube—and this is the first consideration. Although a tube will test o.k. it still may be failing on short waves. The contacts in the wave-changing switch will, if dirty, prevent the oscillator from functioning properly. A worn or loose switch with imperfect contacts is worse. Clean and adjust the tension on the spring contacts. Shields on the oscillator and tuning coils, if loose or misplaced, will be at fault. Your service man should be able to examine all these units and remedy the faults. He also will be able to determine whether the oscillator functions as it should over all or just a part of the short-wave tuning range. By testing the tube, coils, shields, bypass and grid condensers, certain resistors, connections and associated parts, he will soon locate the trouble.

Distorted Reception

Recently I purchased a new G. E. radio set, model F. E.62, which has three bands. On the broadcast band I get good reception. There is a medium-wave band that always is noisy even when the other bands are not, and which never brings in any stations. What should I get on this band? On the short-wave band I do pretty well, but I would like to know what are c.w. signals and also the signals sound like voice but cannot be understood under any conditions.

The broadcast band is the longer wave band and is less selective but seriously crowded with stations. The longer the radio wave, the less selective it is. Therefore, there is apt to be more interference. Now, when two powerful stations are operating very close to one another, when the dial setting is about 10 kilocycles or less, the different wave frequencies of each interfere and set up "beats." This rising and falling heterodyne beat causes the interference that signals indistinguishable. makes Nothing can be done about it except the use of wave traps in the case of powerful nearby transmitters. Of another form of distorted voice we shall make mention later.

On your silent medium band you should find mostly amateur, police

and aviation signals, both voice and code. This band, as a rule, is a bit more noisy than the broadcast band. since its limits fall within the range of a considerable amount of static interference. However, if the hand is inoperative but very noisy it indicates that something is wrong. The band is alive with signals all the time, and if you fail to pick them up it is time to look for trouble. A defective band switch can be the entire fault. It, too, will produce much noise. Clean the contacts, and increase the tension on the points so there can be no frying and grinding noise from this source. A defective oscillator tube, failing to oscillate on the frequencies in this particular band, can cause a dead portion to appear in one of the bands. It is not normal to have one dead band, and a good service man, if available, can remedy it. We suggest, however, that a substitution of the oscillator tube first be tried. Try two or three tubes before giving up the attempt after the switch has been cleaned and adjusted. By-pass condensers and resistors in the oscillator circuit must also be examined carefully.

The short-wave band often is the quietest band, since much static appears on longer wave lengths outside of this band. It is a selective band, and tuning is sharper. The 31meter band usually is the most sensitive to normal radio reception. On this band you will hear many code signals-dashes and dot. They are the so-called C. W. signals-modulated, of course, so you can hear them. If you had a beat-oscillator unit attached you could hear additional C. W. signals. These are known as continuous-wave or C. W. Voice, too, is continuous wave, but is modulated with voice waves so vou can hear it. A pure, continuous wave cannot be heard on the ordinary set. Now, on these short

(Please turn to page 31)

Final Meeting of the DX CLAN

O F ALL the pranks played by radio for the mystification and diversion of its devotees, the vagaries of daytime reception stand well in the foreground. As unpredictable as a woman's mind, the radio waves keep listeners guessing constantly.

Ask the average DXer what he can expect to hear at mid-day, and he will probably indicate definite limits of reception by a rough circle at no great distance from his home. But for every instance where this rule holds good, another listener will be able to cite a case which will disprove the notion.

Of course, most listeners don't expect to dial great distances while the sun is shining. Broadcast band signals simply don't have the carrying power during the daytime. But it is frequently rather startling to observe the unusual catches which some DXers are able to log before sundown.

Cortlandt Parent, Jr., Peekskill, N. Y., brought up the subject in the April RADEX, and a number of other readers have since commented on their daytime dialing experiences.

"Yesterday afternoon," writes Leon Grossman, 52 O.K. Terrace, Rochester, N. Y., "I tried to see how many stations I could hear on the BCB. Besides WHAM, WHEC and WSAY here in Rochester, I heard WGR, WSYR, CKCL, WICC, WCLE, WPRO, WSM, CFRB, WLW, CKAC, WSB, WJR, WJZ, WCCO, WHAS, CBL, CBF, WDBJ, CRCY, WCFL, WCAU, CKTB, WMBO, WFBL. WBNY, WSVS, WKBW, WCKY and WBRY. All this was between 1 and 4:30 p. m."

"In reading over the article in the April RADEX," recalls A. M. Han-

• • • By CARLETON LORD



Fainy Brice has scored an overnight hit on the NBC Good News broadcasts, with Buby Snooks, a mythical character which she created for the stage more than 17 years ago, and revived on the air.

kins, 1006 Ligonier St., Latrobe, Pa., 'you mentioned unusual reception on the broadcast band in the daytime. The other day, between 12:15 and 2:30 p. m., I was able to dial 50 stations on my nine-tube 1938 Zenith receiver. These ranged all the way from East Coast stations in New York and vicinity to as far west as Des Moines, Iowa, and Southwest to Nuevo Laredo, Tamps. Some of the better catches included in the total were WSM, WPTF, XENT, WAVE, WRC, WHO. CKLW. WTIC, WBT, WXYZ, WBLK and WJSV."

Generally speaking, satisfactory daytime reception is limited to a maximum of a few hundred miles for the most powerful stations, and at certain times of the year this range may be reduced by more than a half. Of course, it is frequently possible to tune transmitters at greater distances, but reception under average conditions is so poor that the dialing is wasted effort.

On a few rare afternoons, it is possible to reach out incredible distances and pull in acceptable signals from stations as much as a thousand miles away. Many a DXer has been amazed by healthy carriers from medium-power transmitters far beyond the normal daytime range, and even the small 100-watters have demonstrated their ability to push a signal a couple of hundred miles with fairly satisfactory results.

While there is apparently no way to establish an explanation for this phenomena, and certainly no way to predict when such rare conditions will exist, exist they do and the afternoon listeners frequently are able to reap a real harvest of DX catches.

Final Season Reports

As another DX season draws to a close, listeners are able to check back on their dialing during the winter months and compare their results with those of other years. Some DXers are able to show many new catches added to their logs during seven or eight months of activity, while others, having been less fortunate, can point to but a few rewards for countless hours spent at the dials.

When it comes to passing judgment on the past winter, listeners conform to usual habit by failing to agree in their verdicts. While perhaps a majority are of the opinion that the season was not very satisfactory, there are many who do not hesitate to sing the praises of general conditions.

One DXer who has plenty to show on the credit side of his DX ledger is Philip Nichols, 83 Prospect St., East Hartford, Conn., who writes:

"In spite of predictions to the contrary, the past season has been the best in several years. Up to the middle of January, reception was fine, and since then there have been a few days when stations on the West Coast and in Hawaii were heard better than ever before. The mornings of January 3rd and 4th were the best for TA reception since the boom days of 1933. Stations like Eiffel Tower, Hilversum, and the usual run of French and German broadcasters could easily be heard. During the December frequency checks, reception from the West was wonderful, with all three Hawaiian stations showing exceptional strength and coasters like KPQ, KORE and KUJ being heard for the first time in several years.

"All in all, it has been a very successful season from all points of view, and I believe that it has renewed the interest of many oldtimers. So far, I have added 65 veries to my collection, bringing the total to 935, and the season's goal of 950 is in sight. Next year, I hope to run it over the thousand mark."

"Sunspots or not, this has been the best DX year my ears have ever encountered," gloats Warren E. "Be-Winkley, Hughson, Calif. tween September 8th and March 19th, exactly 290 new stations were heard on my four-tube Lafavette receiver, bringing my total to over 615. Some of the better verified catches of the year were HAL, Budapest, Hungary; WPRA, Mayaguez, P. R.; KINY, Juneau, Alaska; and WFOY, St. Augustine, Fla. The new 2ZB (1130 kcys.) in Wellington, N. Z., has been heard as soon as KSL signs off and is held until WJJD comes on three and three-quarters hours later. A new station in New Zealand on 1430 kcys, is also heard well. Just yesterday morning WPAR and WBLK —both 100-watters in West Virginia—were louder than reliable WHIS on their regular, early-morning schedules. WNEW and CKLW were quite loud, as were WAIR, WNAC and WJSV.

"Incidentally, after spending two years in hospitals and beds as an aftermath of pneumonia, I expect to open a radio repair shop here in the near future. Before I took up DXing, teaching was my aim, but now it's all radio. This town-450 population—is just eight and a half miles from Modesto, which is the second town in the United States on the basis of its per capita wealth. The farmers there are well-fixed financially and are able to pay as they go. A radio shop should go well there and I'm going into it just as soon as I finish my radio course."

Reception Erratic

"Reception here in Richmond has been rather erratic this season," relates James R. Fitzgerald, Jr., R. F. D. 4, Richmond, Va. "Interference has been heavy and signals weak. However, on the few nights when reception was good, it was really excellent. Reception from the South-including Mexico, South America and, of course, Cuba-has been good all winter, but signals from other directions were not so good. Many Cuban stations nightly cause interference with a number of our large broadcasters. Where once we enjoyed trouble-free reception, only a heterodyne greets us now. I certainly hope that somehow this condition will clear up, so we can again listen to our favorite broadcasts."

"Latest catches here are KOL, KLS, KJBS and CFAC," reports George Nahas, 147 Seeley St., Brooklyn, N. Y. "All but KJBS have verified, while other new veries include WJBO, WGPC, WOMI, KWYO and CMBC. On its veries, CFAC advises that future DX programs will be broadcast from 2 to 3 a. m., EST, on Monday, Wednesday and Friday. Apparently the political broadcasts are not limited to this country, as on February 26th heard CMX, CMCK, CMQ and T CMBC hooked up for a spiel on Cuban politics. Also tied in were short-wavers COCM, COCQ and COCO."

"There is little in the way of DX news here." admits Samuel A. Meyer, 83 Canterbury Road, Rochester, N. Y. "My letter to XEJP, which I heard on 1120 and 1125, was returned marked in substance 'no such animal'. Apparently they have changed call or have been deleted, although I heard the call correctly and notice that Carroll Weyrich also reported hearing them. XEDF was not heard on their March 12 broadcast, although reception was A-1 and their 100 watts should have come through. XERB hashes with XEPN nowadays, and XEBG on 820 sometimes reaches R5-6 peaks around here. XERA is now signing off at 1 a. m., with XEPN closing down a half hour later. The last 30 minutes of the program usually consists of huapangos and sones huastecos, very good recorded typical Mexican folk music."

DX Resumes

Of particular interest to all DXers are the reports which record the progress which various listeners make along the midnight air lanes. The old timers relate new additions to their logs, advise of their success in reaching seasonal goals. Younger listeners report advances over shorter periods, and everyone is able to compare his progress with that of other DXers in the same relative classification.

When good reports of fine catches are sent in, the writers have rea-

son to be proud of their records. And the fellows who haven't done so well in any given year find worthy goals at which to shoot, frequently find in other reports the incentive to increase their own efforts.

"I have been a DXer since 1928," states John J. Oskay, R. F. D. 1, Box 85-V, Piscatawaytown, New Brunswick, N. J., "and RADEX sure has helped me to log many stations. I used to DX with a home-made one-tuber, and in one season heard 356 stations as far away as KFI and LR5. In 1935 I used a National SWDC34 and the next year a Hallicrafters Sky Chief. I now have a Sargent 11AA model, which is a five-tube TRF job which sure performs well. My BCB log to date shows 665 stations in 15 countries on three continents. All 48 states have been heard and I have 22 stations 2000 miles away, 37 over 3000 miles distant, and four wheih are more than 5000 miles over the horizon."

"I began DXing on January 5, 1935," admits Merlin N. Steen, R. F. D. 6, Decorah, Iowa, "with a sixtube Kolster receiver. My present log stands at 613 stations heard and 52 verified. Some of my best catches CMOX, CMHJ. KLPM, include KDLR, KPQ, KORE, WNEL, KRSC, WKAQ, XEMO, WFOY, WLAK, WILM, WAGM, WPRO, WCAX and KOH. I am interested in compiling a list of transmitter locations and the names of buildings in which studios are located."

"I started the extremely interesting hobby of DXing on October 23, 1936," advises Henry Dahl, 101 W. Philadelphia St., Detroit. "From that date until the 11th of the following April, I logged 154 stations. My little four-tube set then broke down and I gave up the hobby until March 5th of this year. Of course, my log is just a drop in the bucket compared with those of some listeners, but I think I've had just as much enjoyment as many of the fellows with multi-tube monsters. Those big jobs can't help bringing in the distant stations, but I get fun out of working for mine. Although I have never heard a SA or a TA, I have received some fairly good catches which include KJBS, KFKA, KGCU, KEX, WTAW, WRR, KWYO, WJBY, CJRC, CMCD, CMBX, CMBZ, XEMO and KJR."

"My present receiver is a 1936 General Electric with seven metal tubes," relates John L. Tate, 612 Halifax St., Petersburg, Va., "and I think that it has given some very good results. I began my DXing in January of 1937 and to date I have heard 500 stations on the broadcast band. With the exception of TGW, all are in North America and the surrounding islands. My best catches are KDLR, KWTN, KCRJ, KID, KRMC, KABR and last, but by no means least, KXRO in Aberdeen, Wash.

"The Cubans and Mexicans really pack a wallop here. CMCB completely blots out everything on 1230 kcys, while CMCO has no trouble getting out on the crowded 1200 channel. CBF is received with the volume of a small station on nights when XENT is going good."

Another DX Den

The May issue of RADEX carried a description of the DX den which George Nahas of Brooklyn, N. Y., is planning. At the time it was mentioned that the listener with facilities available for such a venture is indeed fortunate. Latest reader to be placed high on our list of DXers to be envied is E. M. Vickers, Box 121, Coral Gables, Fla.

"We recently bought a new home here in the Gables," he writes, "and plan to move in about the second week in April. According to my present plans, this is going to be a DXer's paradise. We have a tworoom building at the back of the lot and it is going to be used for radio exclusively. I'll have room to stretch aerials 200 feet in one direction, 150 feet in another, and I'm sure going to have several of different types. At present I'm hard at work on the equipment which will be used—transmitter, receiver and so on. The biggest item is going to be a strictly broadcast band super with 2 RF stages and all the fixings."

"Here are a few schedules of stations in this territory," informs Clark Sudduth, 613 Spain St., Baton Rouge, La. "WJBO in this city broadcasts daily from 7:45 to 1 a. m., EST, daily, and has a special DX program from 3 to 5 a. m., EST, on the second and fourth Sundays of each month. KALB and KVOL broadcast from 7 a. m. to sunset daily and from 9 to 10 p. m. on the second and fourth Thursdays."

"I have just received a verie from TILS, San Jose, Costa Rico," exclaims Clifford Drain, 617 Camden St., Parkersburg, W. Va. "I heard this station last December 27th between 2 and 6 a. m., EST. Their correct frequency is 880 kcys. Lately I have heard CMHK, Cruces, Cuba, on 1330 kcys during the evening hours, as well as CMJC, Camaguey, Cuba, on 1390 kcys. Both verified promptly and the former appeared to be quite anxious to receive reports from other listeners.

"There is one Cuban which you haven't listed—CMJW in Camaguey on 1340 kcys. They sent me a nice verie and nearly knocked me over by enclosing an IRC coupon so I could write to them again. They list themselves as CMJW, 'La Voz Del Pueblo,' Apartado 322, Camaguey, Cuba, 1340 kcys, 300 watts.

"According to a correspondent living in Mexico City, there are two unlisted stations down there. One is XERC, Bolivar 52, Mexico City the other XEFZ, Rosa 92-A, Mexico City.

"Have been wondering if any of the RADEX family heard HJ1ABB, Barranquilla, Colombia, on 1080 kcys on February 20th or 27th between 2 and 3 a. m., EST. I heard them on two consecutive Sunday mornings. Also heard another SA on 1390 kcys at the same time, but wasn't able to get their call. The San Salvador station, YSS, is on 630 kcvs—not 640. I heard them clearly between 2 and 2:30 a. m., EST, on the morning of February 14th."

Questions and Answers

"Has anyone reported on WHAL, the Saginaw, Mich., station on 950 kcys?" queries Edmund Ososke, 12217 Mendots St., Detroit. "Are they supposed to be on the air yet, or haven't you heard anything about them?"

"Can any Radexer help me identify a Mexican station on 870 kcys which I heard between 3 and 3:30 a. m., EST, March 12th?" asks Jack Welsh, Kingston, Ill. "Another mystery station is a Cuban on 1160 kcys which is heard frequently between 7 and 8 p. m., EST."

"Does anybody know how to get veries from WWJ and WALA?" questions Carl E. Sylvester, Box 213, Yale, Mich. "Although they state in their listing in RADEX that they will verify for return postage, repeated requests on my part have failed to get a response. A friend of mine has had the same trouble with WADC."

A number of DXers have gotten their WWJ veries after addressing their requests to Assistant Manager Ty Tyson. Out at WADC, Bob Wilson and Red Hageman usually are quite prompt in answering DX mail.

According to Clifford Drain, 617 Camden St., Parkersburg, W. Va., the Mexican heard by Jack Welsh on 730 and 980 kcys are respectively XERB at Rosarito Beach, B.Cfa. and XEAC, Tijuana, B.Cfa., while Vincent C. Stason's unidentified Mexican on 1100 kcys is XEL at Mexico City.

Station Data

"We note in the March issue of RADEX that the sign-on and signoff times for our station are not correct," advises Ralph E. White, Manager, Station CFJC, Kamloops, B. C. "We sign on at 11 a. m., EST, and remain on the air until 1:30 a. m., EST."

"A recent letter from KOKO, La Junta, Colo., gives some information about this new station," notes A. J. Tait, Jr., 225 Jackson St., Pueblo, Colo. "They operate weekdays from 8 a. m. to 11:30 p. m., EST., and on Sundays from 1 to 5 p. m. with 100 watts power. The transmitter is RCA throughout, while a Blaw Knox vertical radiator is used. Correct reports are verified if return postage is enclosed, but they have no station stamps."

"Station WMAZ, Macon, Ga., is now using a new 5-KW transmitter," contributes Henry Dahl, 101 W. Philadelphia St., Detroit. "On an earlymorning program on March 13th, they requested reception data on their broadcast. I wrote them a report and received a verification card in short order."

"Station CMHK is one Cuban which verifies promptly," postcards Richard Daneker, 136 E. Third St., Lansdale, Pa. "Their present schedule is 10 a. m. to 1 p. m. and 4 to 10 p. m., EST, daily. Their address is Apartado 79, Cruces, Cuba, and Virgilio Villanueva is the owner. At this writing, I have 415 veries from the United States and 60 more from 30 foreign countries on all continents. These were received during two years of DXing with a 6-tube Grunow receiver."

The new 1000 watt WRC transmitter is now in use, according to David Hill, 1516 Varnum St., N. W., Washington, D. C. David also informs us that the Evening Star Newspaper Company will buy station WMAL. The present licensee is the M. A. Leese Radio Corp., and the operators are the National Broadcasting Company.

Two changes in Australian stations are reported by Alan Hutchison, 15 Embo St., Dunedin, New Zealand. 4SB in Kingaroy, Queensland, commenced transmitting on March 11, with two kilowatts power on 1060 kcs. Station 7DY in Derby, Tasmania, changed its frequency from 1400 to 1390 kcs.

Mr. Hutchison advises also that 4YZ in Invercargill, New Zealand, 680 kcs., has a permit to increase power to 5000 watts. It is expected the high power will be in use by the first of August.

No Contest

The past season found RADEXers without a Mystery DX Contest to hold their interest during the midwinter months. For the first time in three years, there was no opportunity to win a Scott, Hallicrafters or Midwest receiver, sets of tubes, headphones and other accessories.

When the 1937 contest closed, perhaps a score of listeners wrote in to advise that they hoped the competition would be repeated. Up to the past January, a dozen or so more made casual inquiries. After it was evident that there would be no contest, there were a few expressions of regret—five or six at the outside.

But while this lack of interest coincided with previously-formed conclusions, the real reason to discontinue the contest was the realization that it was quite impossible to devise a set of rules which would be acceptable to all contestants. Because of the vast size of this country, there was no apparent means by which all listeners could compete on The most ingenious equal terms. system of handicaps and qualifications would still be greeted by cries of favoritism to some other section of the country. And unless contestants could be sure that they were competing on even footing, there is no sense in having a contest.

Equally disturbing were the results of the two contests which were held. One case in particular found two contestants in one town ending up with identical scores. Suspicious of such a coincidence, an investigation showed that each listener reported the same stations at the same time and with the same program details. Another coincidence, perhaps, but rather a strain on the imagination.

In another instance, it was learned that one contestant had employed the assistance of four members of his family, who tuned three receivers in shifts. Hardly a sporting way of competing, but there was no way of preventing it.

Perhaps the case which made the deepest impression was the one furnished by a fairly well-known DXer. A few weeks after the results of the 1936 contest had appeared, we received what appeared to be a very mild protest. Commenting on the contest in general, this DXer indicated that he was slightly bewildered by the manner in which the final standings and distribution of prizes had been determined. In his particular case, he had submitted an entry which merited a total of some 700 points. While he didn't intend to dispute the decision of the judges, he found it rather difficult to understand how twenty-two prize winners and twenty-six contestants receiving honorable mention had scores which stood between his 700 and the 765 total of Grand Prize Winner S. R. Lewis. It simply didn't add up.

Obviously, such a situation was not to our liking. A total of 700 points would have earned a secondplace tie for this listener, giving him a chance at the Hallicrafters receiver. To have overlooked his entry would have been most embarrassing for everyone concerned.

However, upon checking through the files for the contest, we located his summary sheet and found that he actually had reported on 25 stations, three of which had not participated in the contest. Thus, instead of the 700 points belatedly claimed, he had only entered sufficient material to merit 440 points. And this was substantiated by his own summary sheet. While the individual reports had been forwarded to the respective stations, this contestant apparently had forgotten that the summary sheets were intended for our permanent records and maybe we weren't thankful for the happy thought which had made this handling a part of the contest set-up.

Scanning the AMATEUR BANDS

• • By B. L. Ahman, Jr.

As another season approaches its end, for the broadcast band listener, the "ham hunters" begin to get ready for their big season. The past month has given us some very unusual reception, and many and varied are the stations heard here in the east. When an eastern listener waxes enthusiastic about reception, reception must be good.

Some of the most recent QSL's received were from GI5QX, GM2UU, and CT1QH.

GM2UU sends his old G2UU card, with a purple "M" rubber stamped over the call letters. GI5QX has a green and red card. G6WX in Coventry has an orange and black card showing the spires of Coventry at the left top, and Lady Godiva on the right center. A fine card!

Among the other amateur stations

heard this month were YR5AA, YR6AY, EI6G, EA8AF, OZ9Q, PAOUN, SM6WL, K4ENT, SV1KE, PAOAA, GW8HI, LU7BK and TI2FG.

TG1GC in Guatemala was heard calling Portugal a few weeks ago, in the middle of the band, at about 5 p.m., EST. Since then it has been reported to us that all the Guatemalan amateurs will use TG9-calls.

Julius Orosz of Cleveland now has a log of seventy countries, 542 stations. Julius would like to hear from other amateur tuners, through this column, in regards to the number of countries and stations heard. Some of his outstanding catches are FT4AN, LA1F, SP1DC, KA1ME, SM7YA, HB9J, ZE1JR, CN8AV and dozens of Australians.

The address of VP9L is Warwick East, Bermuda, we are informed by Kenneth D. Morey of Easthampton, Mass. The frequency of VP9L was given on his card as 14100 kcs, but we have heard this station in the middle, and at both ends of the 20 meter band, all in the same night.

Calls Heard

Some of our readers reported too late for us to include their calls in the Amateur Calls Heard Column. Earl Roberts, Shortwave Editor of the NNRC, report the following stations heard on his Super Skyrider: HH4AS, VP3NV, KA1ZL, SP2HH, I1IP, OK1FF, GW5KJ, J2NF, J2MI, KA1ME, OZ5BW, ZL3DJ, FA3QV, LA3B and LA8C.

Fred Morris of Toronto, Ont., reports VP1DM, K4FAY, HK3LDC, VK3BZ, VK4VD, VR6AY, HR2A, VK2MO, VK2EA and VP6YB.

James Arp of Williamsport, Pa., has CN8AV, CN8CR, CT1QH, and many others. The most interesting call heard was ZA6AC, which some listeners are inclined to think is a bootlegger. The operator of ZA6AC announces as Albania.

From Robert Hatcher of 3221 Fifth Ave., Richmond, Va., comes one of the most interesting letters we have seen for a long time. It reads:

"While running over the amateur band I heard a weak signal and set out to log it. When he signed, I was surprised to hear him say, 'This is ZC2OP in the Cocos Islands calling CO2EG on schedule.' This was at about 9:45 p.m., EST, and he came in at about QSA5, R6. I was so lost as to where to send my report that I wrote to CO2EG about this catch, and CO2EG wrote me back, saying, 'While ZC- are the call letters of the Cocos Islands in Asia, the operator of this station is on the Cocos Islands about 400 miles SSW from Costa Rica. The island is small and belongs to Costa Rica, and is supposed to use the call letters TI9-. The operators of this station are treasure hunters from Los Angeles, and this station is used mostly to contact California for information about the treasure work being done."

"Since I logged him, his call has been changed to ZC2DP.

"In case someone needs a VP4, he ought to be on the look-out for VP4GA on the Island of Trinidad. This station belongs to Charles Cowden, Box 55, San Fernando, Trinidad. San Fernando is about 25 miles from Port of Spain. VP4GA has been heard here many times, near 11 p.m. to 1 a.m., EST. He will verify reports for an IRC.

"At 10:45 a.m. I heard SU8RB sending a message to W6PPK to forward to Hong Kong. SU8RB is a new station, and he verifies. Other good stations heard on 'phone were XU8RB at 7:20 a.m.; VS6AG at 9:12 a.m.; FN8B at 2 a.m.; and TG9AA at 7 p.m.

"The Albanian station ZA6AZ was heard at 1:50 p.m. on ten meters."

Addresses

We list below the call letters, the frequency and the address when known of every amateur station

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mentioned in these columns. Addresses will not be repeated, however, so readers are urged to keep these columns for future reference.

(The letters LF, MF and HF in parentheses following the call letters of stations mentioned in this column indicate the Low Frequency, Middle Frequency and High Frequency portions of the 20 meter amateur band. Low Frequency stations are those on frequencies between 14,000 and 14,100. Middle Frequencies are from 14,100 through 14,300. High Frequencies are from 14,300 through 14,400. No attempt is made to show exact frequencies as they vary so greatly).

J2MI, Hiroshi Murai, 5-539 Araijuka, Omori-ku, Tokyo, Japan.

SP1DC, Edward Kawczynski, Przemystowa 45, Lodz, Poland. (LF-HF)

SVIKE, C. Tavaniotis, 17a Bucharest St., Athens, Greece.

VK2EA, E. F. Fitzgerald, 25 Wallace St., Waverley, NSW, Australia.

VK3BZ, G. I. Morris, Boundary Road, Mordialloc, S12, Vic., Australia.

VK4VD, V. S. Bell, 200 West St., Rockhampton, Qsld, Australia.

ZE1JR, J. M. Davidson, Salisbury, Southern Rhodesia.

ZL3DJ, F. W. Walter, 99 Briggs Road, Mairihau, Christchurch, N. Z.

Readers' Troubles

(Continued from page 22)

waves, you will hear telephone conversations. But these are "scrambled" at the transmitting station before being shot across the sea. This makes the conversation unintelligible to listeners or "eavesdroppers" like ourselves, and the telephone calls are, therefore, absolutely private. At the receiving end the speech is automatically "unscrambled," and the listener hears normal conversation just like we do in any commercial telephone. It is very likely that the distorted signals you have been hearing are these radio telephone calls, in addition to the heterodyned signals described in the first paragraph.

The SWL Trading Post

James Arp, 208 Washington Blvd., Williamsport, Pa. (Exchange SWL Cards, and correspond with foreign listeners).

Bob Botzum, 633 Moss St., Reading, Pa. (SWL cards).

Stanley Brus, 1441 Bell Ave., No. Braddock, Pa. (SWL cards and picture post cards).

George G. Canapp, 1204 W. Fayette St., Baltimore, Md. (Correspondence).

James W. Cheeks, E. Sycamore St., Oxford, Ohio. (SWL cards).

Stan Clarke, 468 Bourgeois St.. Montreal, P. Q., Canada. (Exchange cards with persons outside United States and Canada).

H. V. Gribble, Traffic Box 42, Minneapolis, Minn. (SWL cards).



The same cast of characters which launched the popular "One Man's Family" on the NBC in 1932, started its fourth year under the same sponsorship in March of 1938. More than 20,000,000 listeners hear this saga of an average American family each week. The photo shows Minetta Ellen (Fanny Barbour) with Bernice Berwin (Hazel), left; Kathleen Wilson (Claudia), right, and Winifred Wolfe (Teddy) below.

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

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

Edward Hirsch, St. Albans, L. I., N. Y. (SWL cards).

Tom Hogg, Route 2, York Mills, Ont., Canada. (SWL cards).

Robert E. Lee Hunt, Sr., 1105 N. Harmon, Danville, Ind. (Correspondence).

C. H. Johnson, 1539 W. 12th St., Casper, Wyo. (SWL cards).

Bud Matheson, 1602 Roosevelt Ave., Indianapolis, Ind. (SWL cards).

Vincent Stasen, 5347 Priscilla St., Philadelphia, Pa. (SWL cards).

Meredith Stroh, 172 Queen St., N., Kitchener, Ont., Can. (SWL's).

Wheatley, 130-30-90th William Ave., Richmond Hill, N. Y. (SWL cards).

Luis Diez A., Box 21, Retalhuleu, Guatemala. (SWL cards and photos.)

Wm. Higgins, 7916 Tacoma St., Pittsburgh, Pa. (SWL cards.)

Tom Todd, 1317 S. E. Pine St., Portland, Ore. (SWL cards.)

Norman Glover, 305 S. Eighth St., Ponca City, Okla. (SWL cards.)

Amateur CALLS HEARD

The names and addresses of persons reporting stations shown in this list are indicated by small letters following the call signs. Kev to the small letters is given at the end of the column.

28 Megacycles—Ten Meters

28 Megacycles—ren Meters CNSAV (c); EI6G (c); EI9J (c); F-: 3GR (c); 3HA (v); 3HL (c); 8QD (c); 8RR (c); 8YZ (c); 8ZF (c); **GM**-: 5ST (c); 6RG (cv); 8RG (v); GW2UL (v); GW5KJ (v); G-: 2DH (c); 2IN (c); 2IT (v); 2SD (c); 2VG (v); 5BJ (c); 5BM (cv); 5BN (v); 5EU (v); 5LJ (c); 5EV (cv); 5VM (cv); 5ZG (v); 6AG (v); 6BH (v); 6BW (cv); 6DL (c); 6GP (v):

6GS (cv): 6JW (v): 6LC (v); 6LK (cv); 6PC (v): 6PO (v); 6VX (v); 6WU (cv); 6WY (c); 6YR (c); 8BN (v); 8DM (cv); 8FZ (v); 8MU (cv); 8OZ (v); 8SA (cv); HI2K (v); HI7G (v); HK4EA (cv); I1IT (c)

(c); K4EZR (c); K4SA (c); K6-: ICL (v); MUL (v); MVV (v); OQM (o); PIR (cv); LU-: 1DA (c); 1DJ (c); 7AG (c); 9BV (c); ON-: 4BR (v); 4FE (v); 4PA (cv); 4ZA (c); PA0FB (v); TG9AA (cv); TI2FG (cv); VK2GU (v); VP-: 3NY (v); SGM (v); 6YB (cv); 9R (c); XE2XE (v); YR5AA (cv); ZE1JR (cv); ZS6AJ (c); ZS6T (c).

14 Megacycles-Twenty Meters

C

CE:: 1AH (abpqs); 1AO (s); 1BE (z); 2ET (r); 3AA (abrA); **CN**-: 8AM (mE): 8AU (E); 8AV (ahmpqrCE); 8MB (E): 8MU (CE); CO-: 2JG (A); 2JJ (n); 2JZ (n); 2LY (n); 2WM (nA); **CT**1-: AG (q); AY (qE); DA (E); QG (pqE); GH (eiqrE); CT2DC (E); CT3AN (s); CX2AK (anAE) (apAE).

E

E EA9AH (f); EI: 2G (m); 2JK (s); 4L (E): 5G (s); 6G (kmpqrsuCE); 7F (s); 8M (q); 8N (h); ES5D (a); FA-: 3AM (i): 3HC (C); 3QV (E); 8IH (s); FT4AN (p); F-: 3CH (i); 3CP (prE); 3DI (q); 3GR (aeklmpqrzCE); 3HL (p); 3HZ (mpr); 3JB (q); 3KH (pE); 3LW (A); 3MF (e); 300 (hjkmnpqtzCE); 8AM (hmpqsE); 8AT (s); 8BA (hr); 8CP (s); 8DC (m); 8DL (p); 8DR (h); 8CF (q); 8GM (h); 8GS (m); 8JI (E); 8JJ (f); 8IQ (qE); 8KI (ampqrtuzCE); 8MA (e); 8NQ (s); 8OO (t); 8OZ (s); 8PU (E); 8SI (q); 8UE (hpAE); 8VE (q); 8VZ (m); 8XN (qE); 8XT (rz); 8VZ (m); 8ZC (mE); 8ZF (kmpqzC). G

6DD (pq); 6DL (hqrs E); 6DP (h); 6DT (ptuC); 6DX (s); 6FS (nq); 6GF (rzE); 6GH (s); 6GR (m); 6GS (s); 6HB (km); 6HL (s); 6HV (pqv); 6IF (m); 6IG (m): 6JF (mpqrE); 6JQ (g); 6JW (E); 6KG (t); 6KI (l); 6KL (E); 6KS (r); 6LF (j); 6LK (eghmpqruvACE); 6LL (E); 6LV (z); 6ML (mptuz); 6FR (eh)fkpq- rstC); 6OM (s); 6OY (s); 6RA (m); 6VE (j); 6VK (mp); 6VX (qE); 6WL (h); 6WU (qC); 6WX (hkm); 6XR (hmpqrstCE); 6ZI (hp). 6DD (pq); 6DL (hqrsE); 6DP (h); 6DT

H-J

H-J HB-: 2SP (s); 9BL (E); 9J (hp); HC-: IFG (qrw); 1JB (adifivwCEF): 1JW (abpqrsuzC); 1SE (E); 2HP (ab); 2LC (x); HH-: 2B (adiprvE); 2G (d); 2PB (apuE); 2S (r); 2U (r); 2X (adilmopqr-tvACEF); 2XX (f); 3BX (s); 4AS (afkrAC); 5PA (adingrux); HI-: 1C (adxC); 1W (B); 2BZ (s); 2W (d); 3N (dhmqrvzEF); 4N (F); 4R (q); 5X (adi-mqtvWE); 5Z (F); 7G (gqr); 71 (agpq); 70 (q); HK-: 1AZ (v); 1BA (v); 1DG (abd1puvE); 1GC (d); 1GL (a); 1JC (prz); 1KC (x); 1LZ (bz); 1PA (h); 1QS (F); 2LD (f); 3JB (vC); 3LDC (abdijp-grvzCDE); 3LE (x); 3LR (m); 4AG (d); 5AR (mA); 5BB (v); HP1A (hi); HP2HP (C). (C)

HR: 1AT (p); 5C (jknpqsuvACEF); J-: 2AV (s); 2MI (a); 2NF (q).

к

K KA-: 1CS (a); 1ME (alpqszC); 1ZL (ab/zB); **K4**-: DDH (adE); EFG (r); EJF (abdprstDEF); EMG (ms); ENY (apqtuzE); EQA (r); EZR (f); FAY (ahipqsuCE): SA (adlpstuE); **K6**-: BJJ (pwB); BNR (alrsw); CGK (ap); CMC (adx); GAS (ntC); GQF (a); JLV (p); KGA (bt); KRG (ay); LCV (v); LKN (s); MTE (b); MZK (t); NTV (x); NZQ (ahinrsDE); OQE (alqs); K7FBE (acs).

LAIF (akpqryE); LU: 1BA (f); 1DA (ad); 1DJ (d); 1HI (w); 1QA (E); 2BG (pr); 3BAC (r); 3BK (r); 3BV (r); 5AN (abprxvzC); 5CZ (E); 5DL (b); 6JA (s); 6KE (apqC); 7AG (arE); 9BV (abflpsE); NK1JN (r); NY2AE (abr).

NK1JN (r); NY2AE (abr). OA-: 2B (l); 4AF (a); 4AL (aE); 4R(aA); ON-: 4AP (m); 4AW (s); 4BG(pqt); 4BR (qt); 4BZ (h): 4FE (s); 4GJ(h): 4HJ (q): 4PA (mprsCE); 4SS (mE): 4VK (pqtzC); 4WX (s); 4ZA (bhpz); 4ZC(s); OQ5AA (E); OZ-: 2MR (s); 3U (q): 9Q (kmpqsz). PA-: OEO (yE); OFB (jkpCE); OGM (s); OJR (s); OKU (s); OKZ (s); OWZ (mpuE); ONF (qr); OXF (p); OZB (s); FK-: IPK (a); 1ZZ(a); 2WL (a); PY-: 1GJ (ap); 1MU (p); 2AC (abp); 2AP (E); 2PC (a): 3BP (E); S

SM-: 2VP (h); $5SD^{(ar)}$; 7XE (q); 7YA(pq); **SP**-: 1DC (p); 2HH (aknr); **SU**-:

1CH (ajmpE); 1KG (q); 1RD (qC): SV1KE (apq) т

TI-: 2AV (ahkmpqswcC); 2FG (afhkmnpqrwcC); 2HP (afpqrvC); 2LR (eqA); 2PG (m); 2LR (eqA); 2PG (m); 2RC (akpruACF); 3AV (fkpr); 6AY (A); 7AC (g).

W-N

W1OXAB (ajmrvvC); **XE**-: 1AX (r); 1BT (i): 1CC (r); 1GJ (n); 1GK (n); 2BJ (n); 2FC (i); 3AR (i).

YN-: 1OP (abde/hmpqryACE); 3DG (abj-prAC); **YR**-: 5AA (jkmpqrs); 5KW (d); 5RU (s); YU4VD (s); YU7AY (s); **YV**-: 1AA (dmsx); 1ABY (w); 1AG (ajruE); 1AP (adhnupqrstwDCDE); 1AQ (adhilqr-svxzBCE); 1AT (rs); 2AK (s); 4AA (adhmnpqrvCEF): 4AB (adnqr!ACE); 4ABG (E); 4AD (svE): 4AO (n); 5AB (jqE): 5ABA (av); 5ABF (dkpvEF); 5ABQ (adpC); 5ABY (adelpqrsvEF); 5AC (a). (a).

ZE-: 1JA (c); 1JR (bp); **ZS-:** 1AN (s); 2N (apszC); 2X (E); 3F (mpE): 5CL (p); 5T (q); 6A (a); 6AJ (blrC): 6BT (m); 6CT (az): 6DW (azCE); ZU6AF (c).

- Gail Beyer, 3226 Sunnyside Ave., (a) Chicago, Ilí. Al Bettinger, 2465 N. 47th Ave.,
- (b)
- Al Bertinger, 2017 Omaha, Nebr. Alan I. Breen, 68 Pine Hill Terrace, Dunedin, New Zealand. Russell Geiger, Route 4, Youngs-(c) (d)
- town, Ohio. (e) Helmut Giese, 225 Division. Pt.
- (f)
- Washington, Wis. Gilbert Harris, No. Adams, Mass. David Hill, 1516 Varnum St., N. W., Washington, D. C. (g)
- Edward Hirsch, 188-01 Baisley Blvd., St. Albans, N. Y. (h) St. Albans, N.
- (i) Tom Hogg, Route 2, York Mills, Ont.
- (j) Dan Hurley, 2524 N. 18th St., Phil-(k)
- adelphia, Pa. Geo. F. Kline, Jr., 230 Chatham St., Williamsport, Pa. Carl Martin, 701 Kearney St., Atchi-
- (l)
- son, Kans. Kenneth Morey, 14 Lawndale St.. Easthampton, Mass. J. F. Morris, 18 Firstbrook Road. (m)(n)
- Toronto, Ont.
- (0)Martin Olthoff, 212 N. 16th St., Independence, Kans.
- Julius Orosz, (p) 3368 E. 146th St., Cleveland, Ohio.
- P. L. Patrick, 343 Broadway. Cam-(q)
- P. L. Partick, Ol-bridge, Mass. Edgar D. Petrie, 62 Boultbee Ave., Toronto, Ont. Billy Snow, 302 Harrington St., (r)(s)
- Billy Snow, 302 Harrington St., Route 6, St. Joe, Mo. Vincent Stasen, 5347 Priscilla St., (t)
- Philadelphia, Pa. Albert Steinmetz, 125 W. 27th St., (u)
- Bayonne, N. J. (v)Bob Taglauer, 223 Orchard Road.
- Ft. Mitchell, Covington, Ky. Tony Tarr, 909 W. Lee St., Seattle, (w)
- Wash. Clifton Tavener, Route 1. Rosen-(x)
- burg, Texas. (y)
- George W. Weaver, Box 391, Sax-ton, Pa.
- (z) Jack Welsh, Kingston, III.
 (A) Phillip Wharton, Box 413, Waterford, Ont.
- (B) Hadley Wilcox, 623 W. 40th Place, Los Angeles, Calif.
 (C) Cyrus Will, 651 Brier St., Kenil-
- worth, Ill.
- (D) Wm. Wood, Jr., Oak Park, Ill.
 (E) Nicholas Woytan, 309 S. Wilbur Ave., Syracuse, N. Y.
 (F) Francis Gmeiner, 661 E. 109th St., Cleveland, Ohio.

Station KZIB in Manila, 900 kes with 1000 watts power, announces their schedule as 7 p.m. to midnight on Sundays through Fridays. On Saturdays they broadcast from 9 p.m. to 11 p.m., and on Sundays from 6 a.m. to 10 a.m. KZIB also operates experimental s.w. station on - 49 meters (6 megs.).



"Lum and Abner," the famous Pine Ridge, Arkansas storekeepers and rural comedians. Chester Lauck and Norris Goff (with the mustache) play the roles of "Lum and "Abner," as well as the other characters heard in their programs.

The Stamp Corner

• By David Brockton Browne

FTER frequent changes, the A Post Office Department recently announced a revised program that your Stamp Editor has every reason to believe will be the final revision.

Inclusion of a White House stamp in the new regular series together with the addition of a 22-cent denomination—never before used makes the series complete with a grand total of 32 stamps. All of these stamps will be issued to fill regular postal requirements.

The new 22 cent stamp will have as its central design a portrait of The White President Cleveland. House will be shown on the 41/2 cent stamp previously announced for President Monroe's portrait.

Under the revised program, Presi-

dent Monroe will appear on the 5 cent stamp, which means that the entire Presidential list from the 41/2 cent stamp to the 22 cent stamp will be advanced one denomination. This new arrangement is an ideal one in that it allows the majority of presidents to appear on the numerical value corresponding to their term of For example, Lincoln, the office. sixteenth President, will be shown on the 16 cent stamp, etc. Due to postage requirements it is not possible to follow this system with the higher values. All presidents appear in correct order of succession, however, regardless of whether their term of office and the denomination correspond numerically.

The complete program under the new schedule is listed in order that readers of The Stamp Corner may keep it for future reference.

Included in the Presidential series are: ½ cent Franklin, 1 cent Washington, 11/2 cent Martha Washington, 2 cent John Adams, 3 cent Jefferson, 4 cent Madison, 41/2 cent White House, 5 cent Monroe, 6 cent John Quincy Adams, 7 cent Jackson, 8 cent Van Buren, 9 cent William Henry Harrison, 10 cent Tyler, 11 cent Polk, 12 cent Taylor, 13 cent Fillmore, 14 cent Pierce, 15 cent Buchanan, 16 cent Lincoln, 17 cent Johnson, 18 cent Grant, 19 cent Haves, 20 cent Garfield, 21 cent Arthur, 22 cent Cleveland, 24 cent Benjamin Harrison, 25 cent McKinley, 30 cent Theodore Roosevelt, 50 cent Taft, 1 dollar Wilson, 2 dollars Harding, 5 dollars Coolidge.

As no living Americans may appear on a U. S. postage stamp, Herbert Hoover and Franklin D. Roosevelt are not represented in this galaxy of our nation's chief executives.

By the time this month's Stamp Corner reaches you, three values of the series will have appeared. Namely; the 1 cent Washington on April 25th at Washington, D. C., the $1\frac{1}{2}$ cent Martha Washington on May 5th also at Washington, D. C., and the ½ cent Franklin on May 19th at Philadelphia, Pa.

The remainder of the series is scheduled to appear intermittently throughout the remainder of this year commencing with the 2 cent stamp on June 3rd at Washington, D. C.—the city from whence probably most—if not all— of the balance of these stamps will make their first appearance.

The familiar oblong 6 cent airmail stamp has also been replaced since we were with each of you last month. The new regular airmail stamp is the same size as the current 10 cent special delivery stamp and is printed in bi-color, the border in blue and the central design in red. In the latter, an eagle is shown with outstretched wings, bearing in its talons a shield, olive wreath, and bundle of arrows.

The stamp, issued in connection with the National Air Mail Week celebration, symbolizing the 20th anniversary of air mail in the United States, was placed on sale May 14th at Dayton, Ohio; home of the Wright Brothers—builders of the first successful airplane, and at St. Petersburg, Fla.; where the first passenger flight was made.

We are reliably informed that a stamp commemorating the settling of the state of Delaware will be issued on June 27th. Dover, Delaware is almost a sure bet to be the official First Day City.

The stamp will be a 3 cent value, the same size as the Army and Navy stamps, purple in color, and will honor the tercentenary of the settling of what is now the State of Delaware by the Swedish pioneers.

First Day Covers

A first day cover is an envelope cancelled at the post office designated by the Post Office Department as the official city for initial sales of a new postage stamp, and using only that stamp for postage on the cover.

First day covers have grown in popularity tremendously within the past few years—and each new stamp records at least 200,000 covers mailed on day of isue to collectors.

The method of securing these covers is as follows: Prepare a limited number of self-addressed covers, *not in excess of ten*, (any number from one to ten is acceptable) and send to the Postmaster of the official first day city, together with cash or postal money order remittance to cover *only* the cost of the stamps required for affixing. Postage stamps *positively* will not be accepted in payment.

Each cover should bear a penciled endorsement in the upper right hand corner to show the number of stamps to be attached thereto. 6% size envelopes are preferred for servicing, and space allowance should be made for affixing the stamps. For this reason, the address should be written or typed in the lower right hand corner. Unusual requests cannot be filled. For these events covers must reach the Postmaster in advance of the designated day of issue. Orders will be filled for only the stamp to be issued and only covers will be serviced — the Postmaster will not include mint stamps. All covers must bear at least first class (3c) postage thereon.

Collectors desiring first day covers of the John Adams 2 cent stamp —June 3rd, should follow the above instructions in sending covers to the Postmaster, Washington, D. C. To meet First Class postal requirements, collectors will have to enclose remittance at the rate of 4 cents per cover. (Two 2 cents stamps.)

New Foreign Issues

Commemorating the annexation of *Austria* by *Germany*, the Hitler government has issued a special 6 pfg. stamp showing the figures of two Storm Troupers supporting the Swastika flag.

Finland is releasing a stamp honoring the Tercentenary of the Colonization of the State of Delaware by the Swedes and Finns. The design will show two early Americans tussling with a large tree stump. In the lower right hand corner an Indian in war bonnet will appear.

A new stamp-issuing country will be Sanjak of Alexandretta. This territory has been separated from Syria, a French Mandate in Asia Minor, to satisfy Turkish claims of suzerainty. It will operate independently and Syrian stamps will be used, overprinted with the name of the new territory.

Canada will commemorate two events prominent in that dominion's history with the issue of two new stamps—both 10 cents in value. They honor the Canadians who gave their lives in the World War, depicting the Memorial Chapel in the Peace Tower of the Houses of Parliament at Ottawa; and the opening up of the Great West to settlement, as shown in the old Fort Garry Gate at Winnipeg.

Guiana Hobby Club

For our readers who are interested in contacting radio amateurs, D-X enthusiasts, stamp collectors, as well as in making friendships abroad, may we recommend the Guiana Hobby Club?

Founded in 1933, at Georgetown, British Guiana, the club is favorably known throughout the world for its reliability, integrity, and all-around excellence. With members in over 100 different countries at the present time, and over 50 various hobbies represented, it is not hard to find a person in the country of your choice who is interested in the same hobbies that you are—regardless of what that hobby may be.

The membership at present is (Please turn to page 61)

The SHORTWAVE Listeners Report

Argentina

Station LRA, announcing as "Radio del Estado," in Buenos Aires, is now being heard on 9685 kcs. The programs commence at 6 p.m., EST, with a clock striking 7. (RX83 Canada).

Australia

The new address of VK3ME is Amalgamated Wireless, (A/sia), Ltd., Wireless House, 167 King St., Melbourne, Vic. (RX27 N. Y.)

VLR in Melbourne is putting through a fine signal on 9580 kcs, until about 8 a.m., EST. W1XK bothers it a little at times. There is also a faintly-heard station on 9590 which is believed to be VK6ME at Perth. (RX89 Ohio).

Brazil

PRA8 at Pernambuco has been heard in the evenings at about R4 strength, through interference caused by COCD in Havana. (RX120 Mich.)

Canada

VE9HX at Halifax, on 6120 kcs, relays the programs of CHNS. It has been heard at R4 in Detroit. The studios of this station are located in the Lord Nelson Hotel in Halifax, and the 500 watt transmitter is at Bedford, N. S. They verify for return postage, and send a station stamp for ten cents. (RX120 Mich.)

A Canadian reader reports VE9HX on 6130 kcs. The schedule is given as daily except Saturdays and Sundays from 7 a.m. to 11 p.m. EST, and on those two days they broadcast from noon until 11 p.m. (RX83 Can.)

CJCX at Sydney, N. S., using 1000 watts power, transmits on 6010 kcs, on Sundays only, from 10 to 11:30 a.m. EST. (RX83 Can.)

Channel Islands

Alderney Radio, Ltd., has been fined and its apparatus confiscated,

following a decision of the Royal Court of Guernsey. This station operated for a short while without the benefit of a license from the British Government. The operators stated that they were not subject to British laws. (RX47 England.)

Costa Rica

TI8WS at Puntarenas has moved to the 5770 kcs frequency. (Velasco)

Celebrating its Tenth Anniversary on the air, TI4NRH broadcast a special program every night during the month of May, addressing each program to a different radio club or magazine. Since this issue of RADEX will reach some of our readers in the latter part of May, we are listing below the program schedules from May 20th. Each program is radiated from 9 to 10 p.m., EST.

May 20, Mr. Jacob H. Borofsky.

May 21, Mr. William H. Reeks, and Miss Edith Reeks.

May 22, The Quixote Radio Club. May 23, The Club de Ondas Cortas, of Hayana.

May 24, The Newark News Radio Club.

May 25, To RADEX.

May 26, The Globe Circlers DX Club.

May 27, The British Short Wave League.

May 28, The Philatelic Society of Costa Rica.

May 29, American Radio Relay League.

May 30, The Radio Manufacturers Association.

May 31, To Radio Station WGY.

All reports on these programs will be acknowledged by a beautiful lithographed diploma, 11 by 16 inches in size. Instead of Reply Coupons, listeners are requested to send ten cents in coin for a veri. (CSWRC, RX100 Ohio, RX116 Mont., RX123 Tex.)

Czechoslovakia

The Prague shortwave stations advise that the following frequencies are available for use:

are aranaore ror	abei
OLR2A, 6010	OLR4B, 11760
OLR2B, 6030	OLR5A, 15230
OLR3A, 9950	OLR5B, 15320
OLR4A, 11840	OK1MPT, 5145
	(RX122 Ohio)

OLR4A on 11840 is heard in Detroit with volume equal to that of WWJ. (RX120 Mich.)

Ecuador

HCETC at Quito has moved to 9350 kcs. (Velasco.)

HC1GQ, Quito, on 9175 kcs, is owned by the Guayaquil-Quito Railway Company. It is heard on Mondays, Wednesdays and Saturdays from 8 to 10:30 p.m. (RX73 Ohio.)

El Salvador

YSD, "Alma Cuscatleca," 7894 kcs. in San Salvador, E. S., now commences its broadcasts at 7 p.m., EST, with a program in English. The address is Director General, Radio Nacionales. (RX83 Can.)

Fiii

VPD2 at Suva is now heard well at 7 a.m. on 9540 kcs. They are requesting reports, which are to be sent to Amalgamated Wireless, Suva. (RX27 N. Y.)

France

The French stations now announce as "Paris Mondial" instead of "Radio Coloniale." "Paris Mondial" means, literally, "Paris Embracing the World." (RX100 Ohio.)

The call letters and schedules of the new Essarts station follow:

TPB3, 17765 kcs, 8:30 to 10 a.m.

TPB6, 15130 kes, 6 to 8:15 p.m.

TPB7, 11885 kcs, 8:30 to 11 p.m.

TPB11, 9570 kcs, 1 to 4 a.m. and 10:15 a.m. to 5 p.m.

TPA2, 15243 kcs, 5 to 10 a.m.

TPA3, 11900 kcs, 1 to 4 a.m. and 10:15 a.m. to 5 p.m.

TPA4, 11718 kcs, 6 to 8:15 p.m. and 8:30 to 11 p.m.

(RX51 Mass; RX100 Ohio.)

Germany

DZH on 14480 kcs is heard on Saturdays at 5 p.m. with a program for Brazil (RX27 N.Y.)

Haiti

HH2X at Port au Prince has been received on 11780 from 7 to 10 p.m. HH3W on 9645 kcs is heard daily until about 9 p.m., when they sign off with a bugle call. (RX51 Mass.)

India

Verifications from the new Delhi station are signed by C. W. Goyder, of All India Radio, New Delhi, India. The frequency of VUD2 is given as 9590 kcs, and the schedule, 8 to 10:30 a.m., Indian Time, or 9:30 p.m. to midnight, EST. The verification also mentioned that there is a Bombay station on 9550 kcs, which broadcasts between 9 and 10:30 p.m., EST. Both these stations employ a power of ten kilowatts. (Velasco)

There is a new Indian station on 3300 kcs. It is VUB, Bombay, with 4500 watts of power. The schedule is daily from 7 a.m. to 12:30 p.m., EST. (RX47 England.)

Indo-China

"Radio Philco" in Saigon, on approximately 6220 kcs, is heard from 7:30 to 9:30 a.m., EST. It is best on the Pacific coast during the last half hour. A woman does the announcing, and they sign off with the "Marseillaise." (RX21 Wash.)

Italy

Station IRF, which relays the American Hour from the Roman stations, is owned by Italo Radio, whose address is 46/48 Via Calabria, Roma. They announce that all reports addressed to Italo Radio will be verified, but they are slow in replying. (RX49 Mass.)

Kwantung

A verification from $\overline{J}DY$ at Dairen gives the address as Shotokugai 3. Their power is 10 kilowatts, frequency 9925 kcs, and schedule, 7 to 8 a.m. A photograph of the building housing broadcast band station JQAK was also sent. (RX83 Can., RX121 W. Va.)

Mexico

XETA on 11760 kcs, 1 kilowatt power, relays XET, Monterrey, daily from 1:30 to 3:30 p.m. The address of both stations is Apartado 203. (RX52 N. Y.)

Netherlands

The new schedule of the PHI and PCJ broadcasts:

For the Netherland Indies:

Station PHI2, 17770 kcs, Sunday 7:25 to 8:30 a.m., and Monday, Tuesday, Thursday, Friday, Saturday, 7:25 to 9:30 a.m.

For the Western Hemisphere:

Station PCJ, 9590 kcs, Wednesday and Sunday, 7:15 to 8:15 p.m.

Experimental Broadcasts:

Station PCJ, 9590 kcs, Monday 8:15 to 9:45 p.m.; Tuesday, 2:10 to 3:40 p.m.; Tuesday, 7 to 8:30 p.m.; Tuesday 8:45 to 10:15 p.m.

Station PCJ2, 15220 kcs, Tuesday 2 to 3:30 a.m.; Wednesday 9:30 to 11 a.m.

Poland

Warsaw is heard through SPW on 13635 kcs, from 5:45 to 8 p.m., on weekdays, and from 6 to 9 p.m. on Sundays. SPD on 11535 kcs is heard on the same schedule. It is reported that the programs commence with a few bars from the selection, "The Haunted Castle," and close with the hymn "Wszystkie Nasze Dzienne Sprawy." ("All Our Daily Matters.") (RX51 Mass.)

Portugal

The Lisbon station CSW is now being heard with a very good signal, on a new frequency of 9790 kcs, between 6:30 and 8 p.m. (RX100 Ohio.)

Puerto Rico

An experimental station, K4XAO, at San Juan, has been heard on 17310 kcs, working with W4XAD every morning from 8:15 to 8:30 a.m. This station is owned by the University of Puerto Rico. (RX27 N. Y.)

St. Kitts

VP2LO has been heard testing between 12:30 and 1 a.m., EST. (RX121 W. Va.) VP2LO transmits on 6384 kcs.

Spain

EAJ43 at Teneriffe, in the Canary Islands, transmits on 10370 kcs from 8 to 10 p.m. (RX27 N. Y.)

EAQ has returned to the air with a greatly improved signal. It was heard near 3 a.m., but they announced that they transmit daily at 2:45 a.m., and again at 3:40 p.m. EAQ transmits on approximately 9855 kcs. (RX72 III.)

It is rumored that the station at Salamanca will be increased soon to 40 kilowatts. Listeners have sent contributions which amount to about \$40,000, and this money has been set aside for a new station. (RX118 Canada.)

EAJ43, Santa Cruz de Teneriffe, relays Salamanca at 9 p.m. on 10370 kcs. EA9AH at Tetuan, Spanish Morocco on 14030 kcs, continues to come through, but not as well as formerly. "Radio Malaga" at Malaga on 14450 kcs, transmits war news at 8:20 p.m., CST. (RX23 Minn.)

Union of South Africa

ZRH at Roberts Heights, and ZRK at Klipheuvel still come in on their midnight schedule, from 11:45 p.m. to 12:45 a.m. ZRH is on 9523 kcs and ZRK on 9609 kcs. (RX27 N. Y.)

U. S. S. R.

RNE announced that they transmit daily now from 10:15 to 11 p.m., EST. (RX114 Ohio)

RKI, Moscow, 7520 kcs, broadcasts daily from 7 to 9:15 p.m. (RX27 N. Y., RX100 Ohio.)

United States

W1XK, Boston, broadcasts a DX program, known as "Radio Around the Clock," under the direction of John K. Gowan, III, every Monday at 5:15 p.m. (RX83 Canada.)

Three forestry stations have been reported which can be added to our

s.w. index. They all work on 2385 kcs with 15 watts power. The stations are KNLF, Mt. Scott Ranger Station; KNLH, Lost Creek Ranger Station, and KNLG, all in Crater Lake National Park, Ore. (RX115 Calif.)

"I have heard WWMA on approximately 2710 kcs. It works 'phone from Detroit, Mich., with WWMC in Marine City, Mich., which is on the same frequency. WWMA also works with WWMP, which is at Rousses Point, on 2760 kcs." (RX124 Ill.)

There are two television stations on 2050 kcs. One is W9XG, at Purdue University, which transmits on Tuesdays from 7:30 to 8 p.m., CST, and on Thursdays from 8 to about 8:30 p.m. The other is W9XAK, at Manhattan, Kans., owned by the college there. It was heard on a Wednesday night near 7:30 to 8 p.m., CST. (RX124 III.)

The Reporters

RX21, Anthony Tarr, Seattle, Wash.

RX23, Carl and Ann Eder, Willmar, Minn.

RX27, Raphael Geller, Bronx, N. Y.

RX47, D. H. Dussek, Alton, Hants, Gt. Britain.

RX49, Kenneth Morey, Easthampton, Mass.

RX51, Gilbert L. Harris, No. Adams, Mass.

RX52, Samuel A. Meyer, Jr., Rochester, N. Y.

RX72, Gail T. Beyer, Chicago, Ill. RX73, Mrs. Helen Lind, Lakewood, Ohio.

RX83, Wm. Snook, Dartmouth, N. S., Canada.

RX89, Russell E. Geiger, Youngstown, Ohio.

RX90, Charles Genan, Jamestown, N. Y.

RX100, Mary Eleanor O'Neill, Cleveland, Ohio.

RX114, W. E. Knouff, Cleveland, Ohio.

RX115, Maurice Clark, San Francisco, Calif.

RX116, Dwight Aitchison, Billings, Mont.

RX118, J. F. Morris, Toronto, Ont. RX120, Edmund Ososke, Detroit, Mich.

RX121, Jim Walker, Romney, W. Va.

RX122, A. J. Parfitt, Cleveland, Ohio.

RX123, Cliff Tavener, Rosenberg, Texas.

Java Locals

D. H. Dussek of Alton, Hants, England, sent a booklet issued by the Netherlands Indies Broadcasting Co., Ltd., of Batavia, Java, which lists all the NIROM operated stations. They are:

YDA Batavia, 3040 kcs, 10 kw. YDA Batavia, 6040 kcs, 10 kw. YDB Sourabaya, 9610 kcs, 1 kw. YDB Sourabaya, 15300 kcs, 1 kw. YDC Bandoeng, 15150 kcs, 1.5 kw. PLP Bandoeng, 11000 kcs, 1.5 kw. PMN Bandoeng, 10260 kcs, 1.5 kw. PMH Bandoeng, 6720 kcs, 1.5 kw. YDA2 Batavia, 2385 kcs, 150 w. YDD3 Batavia, 1585 kcs, 100 w. YDA3 Buitenzorg, 1640 kcs, 25 w. YDA4 Soekaboemi, 1550 kcs, 25 w. YDA5 Bandoeng, 2415 kcs, 150 w. YDD2 Bandoeng, 1630 kcs, 150 w. YDA6 Cheribon, 2870 kcs, 150 w. YDA7 Pekalongan, 3270 kcs, 15 w. YDB2 Semarang, 2450 kcs, 150 w. YDE3 Semarang, 2710 kcs, 25 w. YDB4 Tjepoe, 1615 kcs, 15 w. YDB7 Soerabaia, 1530 kcs, 150 w. YDE4 Soerabaia, 3158 kcs, 150 w. YDB6 Malang, 1570 kes, 25 w. YDB5 Solo, 1595 kcs, 25 w. YDE2 Solo, 2500 kcs, 25 w. YDB3 Djokjakarta, 1660 kcs, 25 w. YDE5 Djokjakarta, 2350 kcs, 25 w.

Across the EDITOR'S Desk

EXAMINERS of the Federal Communications Commission have recommended the grant of construction permits to two applicants.

Y. W. Scarborough and J. W. Orvin, of Charleston, S. C., are the applicants for a new station to use 1210 kilocycles with 250 watts days and 100 watts nights, unlimited time.

Sherman V. Coultas, Milton Edge and Hobart Stephenson of Jacksonville, Ill., request permission to erect a new station to employ 1310 kcs, 100 watts unlimited time.

A change has been made in the special DX programs which are being broadcast by station KIDO, for the Before Breakfast DX Club. This thousand-watt station on 1350 kcs. will broadcast from 1 to 2 am, EST, on the mornings of June 5, July 3 and August 7.

New Clubs

Organization of the first Hungarian Radio Club in the United States is progressing nicely, despite the usual difficulties attendant upon the inauguration of a new venture. The organizers, led by Albert Steinmetz, were surprised to learn that the greatest obstacle in their way was the fact that the Hungarian shortwave stations are not receivable at the present time in good condition.

The members of the club, which is known as the Verhovay Short Wave Radio Club, have requested the Hungarian authorities to increase the power of the HAS- stations to 20 kilowatts, and one of their members has made a trip to Budapest to make the request in person.

All Hungarian DXers in the world are requested to communicate with Albert Steinmetz, 125 W. 27th St., Bayonne, N. J., concerning the club.



Maxine Sullivan, whose swing interpretations of the old classics had more than a little to do with the touching of of the current "swing versus classic" fireworks, has become a member of the cast of the CBS Saturday Night Swing Club.

Under the direction of E. Leisering, Jr., a number of radio fans in the Brooklyn area have formed a radio club which will be devoted to DXing on the broadcast band, shortwaves, and ultra shortwaves. Membership in the club, known as the Band Spread Radio Club, is one dollar per year, and this fee includes a year's subscription to the club magazine, "The Band Spread," issued every three weeks.

Inquiries concerning the Band Spread Radio Club are to be addressed to Mr. E. Leisering, Jr., 782 E. 32nd St., Brooklyn, N. Y.

Below are printed a few excerpts gleaned from the first issue of "The Band Spread," a 32-page bulletin.

CFU, 5705 kcs, Rossland, B. C., Canada, broadcasts the latest news daily from 8:30 to 8:45 pm, EST.

HI5P, Trujillo, Dominican Republic, on 6560 kcs, is now testing and will commence broadcasting on a regular schedule soon.

Several 25 kilowatt transmitters are under construction at Helsinki, Finland, and should be on the air soon.

A new transmitter at Kaunas, Lithuania, will soon be in operation. The call letters are LYZ on 6125 kcs. Other Lithuanian transmitters are shown in our shortwave list.

Robot Radio Tunes Automatically

The latest invention of E. H. Scott, of the E. H. Scott radio laboratories, is a self tuning radio. This new set, called the "Radio Robot," is operated by an electric clock. The outer rim of the clock is perforated at fifteen minute intervals and plugs, representing local radio stations, are placed in these holes at desired intervals.

Other plugs turn the set off at the desired time and a complete twentyfour hour program can be chosen at one time and will be reproduced without further adjustment of any kind.

Additional control, in case a preselected program does not meet with expectations, is achieved by a keyboard control placed within easy reach of an armchair. Buttons, the simplest mechanical form of control, select other local stations, turn the volume up or down, turn the set off or on, and also turn on the phonograph.

The uses of the new radio are manifold. Additional sound projectors and keyboards can be placed in various rooms of a home and operated at differing volumes . . . A microphone can be placed in the circuit to be used as a radio nurse in a sick room, or as a call system. With a volume control at his fingertips the listener may eliminate or tone down long commercial an-

nouncements increasing radio enjoyment considerably.

In Merrie England

Donald Young of 24 Montague Ave., Peterborough, England, writes an interesting letter about radio receivers and DX reception in his country.

"Here in England nearly every valve (tubes to us) in a radio receiver has a multiple function," he writes. "As they are required to do double duty they do not last as long as their American counterparts. The initial cost is also higher, so most of our sets do not have as many tubes as the average American set—the average here is about 5 tubes.

"Nearly all our receivers are superheterodynes, and most of the sets now on the market have automatic volume control, and three wave bands. The wave bands in use are 15 to 50 meters (shortwave), 200 to 500 meters (broadcast band) and 900 to 2000 meters (long waves).

"There are some American receivers which are assembled over here— Philco, Pilot, Ferguson, and others, and I have found that the American designed or built set has greater selectivity than an English one. We are just beginning to copy your automatic tuning, and no doubt it will be incorporated in our 1939 receivers.

"I live in the East Midlands of England, and can therefore get all the home stations at good signal strength, as well as many of the European stations. As far as America is concerned, the 19-20 meter band seems to yield the best results, and Schenectady is by far the best station."

From Europe we learn that CT1AA in Lisbon, Portugal, on 629 kcs., has increased power from 15 to 20 kilowatts.

Rome No. 1 increased its output from 100 to 120 kilowatts.

Bodo, Norway, has shifted its frequency from 850 to 823 kilocycles.

"Radio Normandie" at Fecamp, France, moved from 1113 to 1411 kilocycles.

Two new stations and a change in frequency are reported from Australia.

A new station in Young, NSW, has the call sign 2LF, on 1340 kcs. The power is 300 watts, and the address is Young Broadcasters, Ltd., Watson House, 9 Bligh St., Sydney.

In Derby, Tasmania is new station 7DY, on 1400 kcs, with 100 watts power. It is owned by the North East Tasmanian Radio Broadcasters, Pty., Ltd., Paterson St., Launceston, Tas.

Station 4ZR in Roma, Queensland, moved its frequency from 1450 to 1490 kcs. This 100 watt station is owned by the Maranoa Broadcasting Co., Pty., Ltd., Hawthorne Road. Roma.

Shortwave Report

From Pat Webb of 1526 Hicks Ave., San Antonio, Tex. comes an interesting report on shortwave stations. "I have heard VR6AY several times lately," Pat writes. "They are on almost every evening at irregular intervals, beginning sometimes as early as 7 pm, CST, and continuing as late as 10 o'clock. It is difficult to pick up VR6AY sometimes because their carrier is not on the air except when they are actually talking (controlled carrier). Two frequencies are usually employed, 17280 kcs, which they call No. 5, and 15330, which is their No. 4. The signals are quite strong, varying from R7 to R9.

"Praha is now using OLR5B on 15380 until 8 o'clock, and then they switch over to OLR4B on 11760 kcs.

"RKI broadcasts programs with English announcements on 15040 kes, from 6 to 8 pm, CST. This is the loudest signal I have heard from Moscow, but the quality does not seem to be very good.

"W2XAD broadcasts Latin-American programs on 9550 kcs, begin-

ning at 5:30 CST, in the evening. They carry the same sustaining programs as W2XAF, but when 2XAF has a commercial, 2XAD has its own program.

"The Press Wireless Stations have changed their schedule. They are on now from 11:30 to 12:30 noon, Monday through Friday. W2XGB at Hicksville, N. Y. puts a good signal into this area on 17310, but the Elgin station is barely heard."

The MONTH'S CHANGES in Station Data

New

99 0	CMKL	Bayamo, Cuba. Cespedes
1210	KWJB	Globe, Ariz. Sims Broad- casting Co.
1 21 0		Rice Lake, Wis, Walter
1250	WKST	H. McGenty New Castle, Pa. Key- stone Brdcstg. Co.
1250	$a \sim \cdots$	St. Louis. Mo. Star-Times Pub. Co.
1370	WHLS	Port Huron, Mich. Port
1420	KGLU	Huron Brdestg. Co. Safford, Ariz. Gila Broad- casting Co.
1420		Bozeman, Mont. Roberts McNab Co.
		Power
950	WRC	Washington, D. C., 1000 (5) from 500
1490	KFBK	Washington, D. C., 1000 (5) from 500 Sacramento, Calif., 10,- 000 from 5000
		Network
570	KGKO	Wichita Falls, Tex., NBC from CBS
640	WHKC	Columbus, O new MBS
1210	KPFA	Columbus, O., new MBS Helena, Mont., new NBC
1310	CJLS	Yarmouth, N. S., new CBC
1370	кток	Oklahoma City, Okla., new NBC
1500	CJIC	Sault Ste. Marie, Ont., new CBC
		Owner
1200	WHBC	Ohio Brdestg. Co., 319 Tuscola St., W., Can-
1200	WJNO	ton, O. WJNO, Inc., Box 189, W. Palm Beach, Fla.
	Permit te	• Change Frequency
980	XEFE	Nuevo Laredo, Tams.,
1190	WATR	Waterbury, Conn., to 1290
1240	KLPM	Minot N Dak to 1360
1250	WCAL	Northfield, Minn., to 760
1250	WLB	Munneabous Winn to 760
1310	KINY	Juneau, T. A., to 1430
1310	WOL.	Washington, D. C. to 1230
1420	KABR	Aberdeen, S. Dak., to 1390

	Permit	to Change Power	$\frac{900}{920}$	KGBU CMX	Ketchikan, T. A., to 1000 Havana, Cuba, to 5000
$570 \\ 570$	CMCY KGKO	Havana, Cuba, to 10,000 Wichita Falls, Tex., to 1000 (5)	$1000 \\ 1110$	CMBZ CMCJ KSOO	Havana, Cuba, to 5000 Havana, Cuba, to 5000 Sioux Falls, S. Dak., to
590	WKZO	Kalamazoo, Mich., to 250 (1)	1110 1170	CMBS	5000 Havana, Cuba, to 5000
$\frac{760}{810}$	KXA CMCF	Seattle, Wash., to 1000 Havana, Cuba, to 5000	$1190 \\ 1240$	WATR KLPM	Waterbury, Conn., to 250 Minot, N. Dak., to 500
850	WWL	New Orleans, La., to 50,- 000	1250	KIT	(1) Yakima, Wash., to 500
880 880	CMW WCOC	Havana, Cuba, to 5000 Meridian, Miss., to 1000	1250	WCAL	(1) Northfield, Minn., to 5000
890	KFNF	Shenandoah, Iowa, to 1000 (5)	1250	WLB	Minneapolis, Minn., to 5000
890	WMMN	Fairmont, W. Va., to 1000 (5)		(Contin	nued on page 61)

Geography Lesson

The National Geographic Society has compiled a list showing the English and local names of European countries, and their new map of Europe and the Mediterranean gives all place names in the local language. Using this information, we have made up a list of the European countries and their capital cities, giving the English and the local names. This list, used with the permission of the National Geographic Society, is given below:

CO11	NTRY	CAP	ITAL
	Local	English	Local
English	Shqiperia	Tirane	Tirane
Albania	Andorra	Andorra	Andorra
Andorra	Belgique (French),		
Belgium	or Belgie (Flemish)	Brussels	Bruxelles
	Bigariya	Sofia	Sofiya
Bulgaria	Ceskoslovensko	Prague	Praha
Czechoslovakia	Danzig	Danzig	Danzig
Danzig	Danmark	Copenhagen	Kobenhavn
Denmark	Danmark Eesti	Reval	Tallinn
Estonia		Helsingfors	Helsinki
Finland	Suomi	Paris	Paris
France	France	1 4115	
Germany	Deutsches	Berlin	Berlin
	Reich	London	London
Great Britain	Great Britain	Athens	Athenai
Greece	Hellas	Budapest	Budapest
Hungary	Magyarorszag	Revkjavik	Reykjavik
Iceland	Island	Dublin	Baile Atha Cliath
Ireland	Eire	Rome	Roma
Italy	Italia	Riga	Riga
Latvia	Latvija		
Liechtenstein	Liechtenstein	Kovno	Kaunas
Lithuania	Lietuva		Luxembourg
Luxembourg	Luxembourg	Luxembourg	Monaco
Monaco	Monaco	Monaco	['sGravenbage
	Nederland	The Hague	Amsterdam
Netherlands		Amsterdam	Oslo
Norway	Norge	Oslo	Warszawa
Poland	Polska	Warsaw	Lisboa
Portugal	Portugal	Lisbon	Buouresti
Romania	Romania	Bucharest	Madrid
Spain	Espana	Madrid	Stockholm
Sweden	Sverige	Stockholm	Stockholm
Switzerland	Helvetia, or		
	Suisse, or		
	Schweiz, or		Bern
	Svizzera	Bern	Ankara
Turkey	Turkiye	Angora	ADEBIA
Union of Soviet	Soyuz Sovetskikh		
Socialist Republics	Sotsialisticheskikh		
Boolanse Republica	Respublik	Moscow	Moskva
Vatican City	Citta del Vaticano	Vatican City	Citta del Vaticano
Yugoslavia	Jugoslavija	Belgrade	Beograd
IUSUSIAVIA			

NBC Shortwave Service

DURING the last six months of 1937, a total of 2697 letters from seventy-five different countries and possessions was received by W3XAL, international shortwave station of the National Broadcasting Company. These letters bore postmarks of countries in Europe. Africa, Asia, the Indian Ocean, the South Seas, Australia, and South and Central America. In fact, the mail box of the NBC International Division has become a veritable heaven-on-earth for stamp collectors.

Announcements and programs in French, German and Italian were started by W3XAL in July, 1937. For practically a year before this, the same service was being rendered in both Spanish and Portuguese. At present the International Division operates from 9 am to 1 am, EST, with an hour and a half of special programs for German-speaking listeners, two hours for the French, and one hour for the Italian. From 5 pm to 1 am, EST, programs in English, Spanish and Portuguese are broadcast, with one hour in Spanish especially for the Argentine, and one hour in Portuguese for Brazil.

As a result of this intensification of service, radio listeners in nearly every part of the world have written to NBC to express their appreciation. Many of the writers say that NBC's broadcasts are one of their greatest sources of entertainment and the best way to obtain news untouched by propaganda.

In one instance, word came to NBC from a Prince on the Ile Reunion in the Indian Ocean by way of an amateur radio operator in Scranton, Pa. According to the Pennsylvanian, Prince Vinh San of St. Denis, Reunion, enjoys the shortwaved programs of popular American music.

Each period of special broadcasts brings its response. The German period inspires letters from the Fatherland and in the colonies of Africa. A young man, writing from Wiesbaden in Germany, said that he not only had been improving his English by listening to W3XAL, but also was deriving great pleasure from "your dance music, particularly the new dance, 'Big Apple.'"

German listeners have also written from Sungu-Lukolela in the Belgian Congo, from Switzerland, Austria, The Netherlands, France, Palestine, Czechoslovakia, Denmark, Belgium, and many other places.

The French also are voluble in appreciation of the special their programs broadcast to them in Europe and in many of the out-of-theway places of the world. A listener at Le Vesinet in France says, "I have the honor to write you to convey to you what great, what immense joy we experience; we listen to a French voice flung athwart space speaking to us of the great America, our only friend, our true friend, and I believe in saying this that I am very sincerely expressing the opinion of all the French." Other French letters come from Diego-Suarez in Madagascar, Beirut in Syria, Conakry in French Guinea, Morocco, Turkey, Mauritius Island, Mexico, Roumania, Senegal, Portuguese West Africa, French Sudan and French Equatorial Africa.

These letters show that radio listeners the world over are anxious to get American news and entertainment, and that our overseas friends in general like to hear popular American music—hill billy or swing type.

Frequency Check Schedule

3:00-3:15

3:05-3:20

3:10-3:25

3:15-3:30

3:20-3:35

3:25-3:40

3:30-3:45

3:35-3:50

3:40-3:55

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

WSJS

WMFJ

WAIM

WMFD

WEED

WJNO

WRDW

WICA

WIOD

WAYX

WBLY

WDNC

WPAY

WAIR

WMBC

WALR

WMFR

WHBB

WKRC

WCLE

WSMB

KALB

WLBC

KELD

Second Tuesday

Winston-Salem, N. C.

Daytona Beach, Fla.

Rocky Mount, N. C.

W. Palm Beach, Fia.

Anderson, S. C

Augusta, Ga

Miami, Fla

Lima, Ohio

Ashtabula, Ohio

Waycross. Ga

Durham, N. C

Detroit, Mich

Selma, Ala.

Zanesville, Ohio High Point, N⁻C.

Cincinnati, Ohio

Cleveland, Ohio

Alexandria, La

El Dorado, Ark.

Muncie, Ind

New Orleans, La.

Portsmouth, Obio

Winston-Salem, N. C.

Wilmington, N. C

1310

1420

1200

1370

1420

1200

1500

940

610

1200

1210

1500

1370

1250

1420

1210

1200

1500

550

610

1320

1210

1310

1370

HE Federal Communications Commission recently has adopted a new schedule for its monthly frequency checks. Reducing the periods for each station from 20 to 15 minutes, the FCC now has one or more broadcasters signing on every five minutes. A total of 335 stations is included in the schedule which is now in operation.

As in the past, the tests take place during the second week of each month. In June the schedule will commence on Wednesday the 8th, and continue through Tuesday the 14th.

				1. June 100	NELD	1010	DUIANO, AIN.
Δ11 +	imes 1	isted	are a.m., Eastern		WOPI	1500	Bristol, Tenn.
		isteu	are amin, Bantern		WWAE	1200	Hammond, Ind.
Standard.				4:20-4:35	WACO	1420	Waco, Texas
Second Monday					WBCM	1410	Bay City, Mich.
0.00.0.15		1370	Albany, N. Y.		WDBO	580	Orlando, Fla.
3:00-3:15	WABY		Springfield, Mass.	4:25-4:40	KXYZ	1440	Houston, Texas
3:05-3:20	WMAS	1420			WCMI	1310	Ashland, Ky.
3:10-3:25	WCAX	1200	Burlington, Vt		WSIX	1210	Nashville, Tenn.
3:15-3:30	WRDO	1370	Augusta, Maine	4:30-4:45	KGKL	1370	San Angelo, Tex.
3:20-3:35	WAGM	1420	Presque Isle, Me.		WHBY	1200	Green Bay, Wis.
3:30-3:45	WQDM	1390	St. Albans, Vt.		WHEF	1500	Kosciusko, Miss.
3:35-3:50	WMFF	1310	Plattsburg, N. Y.	4:35-4:50	KCMC	1420	Texarkana, Tex
3:40-3:55	WABI	1200	Bangor, Maine	1.000	WHK	1390	Cieveland, Ohio
3:45-4:00	WCAD	1220	Canton, N. Y.	4:40-4:55	KRGV	1260	Weslaco, Texas
3:50-4:05	WLNI	1310	Laconia, N. H.		WADC	1320	Akron, Ohio
3:55-4:10	WIBX	1200	Utica, N. Y.	4:45-5:00	KTOK	1370	Oklahoma City, Okla.
4 :00-4 :15	WWRL	1500	Woodside, N. Y.	1.1.0 0.000	WJBK	1500	Detroit, Mich.
4:05-4:20	WMBO	1310	Auburu, N. Y.	4:50-5:05	KGFF	1420	Shawnee, Okla
4:10-4:25	WBRB	1210	Red Bank, N. J.	4:55-5:10	KFVS	1210	Cape Girardeau, Mo.
4:20-4:35	KVOX	1310	Moorhead, Minn.	5:00-5:15	KMAC	1370	San Antonio, Texas
4:25-4:40	KF PW	1210	Fort Smith, Ark.	5:05-5:20	KAND	1310	Corsicana, Texas
4 :30-4 :45	WMIN	1370	St. Paul, Minn.	5:10-5:25	KLAH	1210	Carlshad, N. Mex.
4:35-4:50	RNEL	1420	Palestine, Texas	5:15-5:30	KIUP	1370	Durango, Colo.
4:40-4:55	WBBZ	1200	Ponca City, Okla.	5:20-5:35	KFXR	1310	Oklahoma City, Okla.
4:45-5:00	\mathbf{KFGQ}	1370	Boone, Iowa	5:25-5:40	KDLR	1210	Devits Lake, N. D.
4:50-5:05	KRBC	1420	Abilenc, Texas	5:30-5:45	KICA	1370	Clovis, N. Mex.
4:55-5:10	KGHI	1200	Little Rock, Ark.		KGMB		Honolulu, Hawaii
5:00-5:15	KTEM	1370	Temple, Texas	5:35-5:50 5:40-5:55	KBTM	1320 1200	Jonesboro, Ark.
5:05-5:20	KABR	1420	Aberdeen, S. D.		KRMC	1370	
5:10-5:25	KGEK	1200	Sterling, Colo.	5:45-6:00	KORE	1420	Jamestown, N. D.
5:15-5:30	KFJZ	1370	Fort Worth, Texas	6:05-6:20 6:10-6:25			Eugene, Ore.
5:20-5:35	WMBR	1420	Joplin, Mo.		KOOS	1200	Marshfield, Ore.
5:25-5:40	WIL	1200	St. Louis, Mo.	6:15-6:30	KAST	1370	Astoria, Ore.
5:30-5:45	WOC	1370	Davenport, Iowa	6:20-6:35	KPQ	1500	Wenatchee, Wash.
5:35-5:50	KABC	1420	San Antonio, Texas	6:25-6:40	KFXD	1200	Nampa, Idaho
5:40-5:55	KADA	1200	Ada, Okla.	6:30-6:45	KUJ	1370	Walla Walla, Wash.
5:45-6:00	KLUF	1370	Galveston, Texas	6:35-6:50	KRNR	1500	Roseburg, Ore.
5:55-6:10	KHBC	1400	Hilo, Hawali	6:40-6:55	KVOS	1200	Bellingham, Wash.
6:00-6:15	KRE	1370	Berkeley, Calif.	6:45-7:00	KEEN	1370	Seattle, Wash.
6:05-6:20	KXO	1500	El Centro, Calif.	6:50-7:05	KMED	1410	Medford, Ore.
6:10-6:25	KWG	1200	Stockton, Calif.	7:00-7:15	KRKO	1370	Everett, Wash.
6:15-6:30	KERN	1370	Bakersfield, Calif.		Se	cond W	/ednesday
6:20-6:35	KUMA	1420	Yuma, Ariz.	3:00-3:15	WTEL	1310	Philadelphia, Pa.
6:25-6:40	KVCV	1200	Redding, Calif.	3:05-3:20	WNBF	1500	Binghamton, N. Y.
6:30-6:45	KIS	1280	Oakland, Calif.	3:10-3:25	WLVA	1200	Lynchburg, Va.
6:35-6:50	KYOS	1040	Merced, Calif.	3:15-3:30	WSAJ	1310	Grove City, Pa.
6:40-6:55	KSUN	1200	Lowell, Ariz.	3:20-3:35	WWSW	1500	Pittsburgh, Pa.
6:45-7:00	KGDM	1100	Stockton, Calif.	3:25-3:40	WBAX	1210	Wilkes-Barre, Pa
6:50-7:05	KIEM	1450	Eureka, Calif.	3:30-3:45	WHAT	1310	Philadelphia, Pa.
6:55-7:10	KVEC	1200	San Luis Obispo, Callf.	3:35-3:50	WRTD	1500	Richmond, Va.
0.55-7.10	N V EO	120007	Dan ritta Owaho, Ogun	2.00 0.00		, 000	

3:40-3:55	WBBL	1210	Richmond, Va.		WTRC	1310	Eikhart, Ind.
3:45-4:00	WBNY	1370	Buffalo, N. Y.	5:10-5:25	KHBG	1210	Okmulgee, Okla.
3:50-4:05	WHIS	1410	Bluefield, W. Va.	5:15-5:25	KONO	1370	San Antonio, Tex.
3:55-4:10	WKOK	1210	Sunbury, Pa.	5:20-5:35	KGKB	1500	Tyler, Texas
4:00-4:15	WFBG	1310	Altoona, Pa.	5:25-5:40	KASA	1210	Elk City, Okia.
4:05-4:20	WQAN	880	Scranton, Pa.	5:30-5:45	KFRO	1370	
4:10-4:25	KWNO	1200					Longview, Texas
4.10-4.25			Winona, Minn.	5:35-5:50	KNOW	1500	Austin, Texas
	WHDL	1400	Olean, N. Y.	5:40-5:55	WMFG	1210	Hibbing, Minn.
4:15-4:30	KRIS	1330	Corpus Christi, Tex.	5:45-6:00	KRLH	1420	Midiand, Texas
	WEBR	1310	Buffalo, N. Y.	5:50-6:05	KCRJ	1310	Jerome, Ariz.
	WIBM	1370	Jackson, Mich.	5:55-6:10	KIUL	1210	Garden City, Kans.
4:20-4:35	KBST	1500	Big Spring, Texas		KVOA	1260	Tucson, Ariz.
	WPAR	1420	Parkersburg, W. Va.	e.05 e.00			THESON, ATTZ.
4:25-4:40	KSO	1420	Des Moines, Iowa	6:05-6:20	KHUB	1310	Watsonville, Cailf.
4.20-4.40				6:10-6:25	KGGC	1420	San Francisco, Callf.
in	WCLO	1200	Janesville, Wis.	6:15-6:30	KGAR	1370	Tucson, Ariz.
4:30-4:45	KROC	1310	Rochester, Minn.	6:20-6:35	KSRO	1310	Santa Rosa, Calif.
	WEOA	1370	Evansville, Ind.	6:25-6:40	KTRB	740	Modesto, Calif.
4:85-4:50	KDAL	1500	Duluth, Minn.	6:30-6:45	KJBS	1070	San Francisco, Callf.
	WELL	1420	Battle Creek, Mich.	6:35-6:50	KSUB	1310	Cedar City, Utah
4:40-4:55	WHBC	1200	Canton, Ohio	6:40-6:55	KDON	1210	Manhanan Clark
1.10-1.00		1120	Canton, Onto				Monterey, Cailf.
	WTAW		College Station, Tex.	6:45-7:00	KGU	750	Honoluiu, Hawaii
4:45-5:00	KRMD	1310	Shreveport, La.	6:50-7:05	KHSL	1260	Chico, Calif.
	WSAU	1370	Wausan, Wis.	6:55-7:10	KROY	1210	Sacramento, Calif.
4:50-5:05	KNEL	1500	Brady, Texas			6 d	Felder
	WLAP	1420	Lexington, Ky.	9.00 9.15		Second	
4:55-5:10	KFDM	560	Beaumont, Texas	3:00-3:15	WSVS	1370	Buffalo, N. Y.
100 0110	WFAM	1200		3:05-3:20	W,JAC	1310	Johnstown, Pa.
5:00-5:15	KPDN		South Bend, Ind.	3:10-3:25	WJTN	1210	Jamestown, N. Y.
		1310	Pampa, Texas	3:15-3:30	WBLK	1370	Clarksburg, W. Va.
5:05-5:20	KPLT	1500	Paris, Texas	3:20-3:35	WLEU	1420	Erie, Pa.
	WCBS	1420	Springfield, Ill.	3:25-3:40	WCAP	1280	
5:10-5:25	KGKO	570	Wichita Falls, Tex.	0.20-0.40			Asbury Park, N. J.
5:15-5:30	KFPL	1310	Dublin, Texas	0.00.0.45	WSAY	1210	Ruchester, N. Y.
	WDWS	1370	Champaign, Ill.	3:30-3:45	WDEV	550	Waterbury, Vt.
5:20-5:35	KAWM	1500			WGH	1310	Newport News, Va.
0.20-0.60			Galiup, N. Mex.	3:35-3:50	WCNW	1500	Brooklyn, N. Y.
	WPAD	1420	Paducah, Ky.		WMBS	1420	Uniontown, Pa.
5:25-5:40	KGLO	1210	Mason City, Iowa	3:40-3:55	WFAS	1210	White Plains, N. Y.
	W JBC	1200	Bloomington, Ill.		WMBG	1350	Richmond, Va.
5:30-5:45	KRRV	1310	Sherman, Texas	3:45-4:00	WOKO	1430	
	WGL	1370	Fort Wayne, Ind.	3.4.7-1.00	WRAW	1310	Albany, N. Y.
5:35-5:50	KGKY						Reading, Pa.
		1500	Scottsbiuff, Neb	0.50 1.05			
	WIBU	1500 1210	Scottsbiuff, Neb. Povuette Wis	3:50-4:05	WDAS	1370	Philadelphia, Pa.
5:40-5:55	WIBU	12 10	Poynette, Wis.		WDAS WSYB	$1370 \\ 1500$	
	WIBU	12 10		3:50-4:05 3:55-4:10	WDAS WSYB WNBZ	1370	Philadelphia, Pa.
5:40-5:55	WIBU S	1210 econd	Poynette, Wis. Thursday		WDAS WSYB WNBZ	1370 1500 1290	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. [Y .
5:40-5:55 3:00-3:15	WIBU S WKAT	1210 econd 1500	Poynette, Wis. Thursday Miami Beach, Fla.	3:55-4:10	WDAS WSYB WNBZ WSYR	1370 1500 1290 570	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. FY. Syracuse, N. Y.
5:40-5:55 3:00-3:15 3:05-3:20	WIBU S WKAT WJRD	1210 econd 1500 1200	Poynette, Wis. Thursday Miami Beach, Fla. Tuscaloosa, Ala.	3:55-4:10 4:00-4:15	WDAS WSYB WNBZ WSYR WBRE	1370 1500 1290 570 1310	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. IY. Syracuse, N. Y. Wilkes-Barre, Pa.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35	WIBU S WKAT WJRD WSOC	1210 econd 1500 1200 1210	Poynette, Wis. Thursday Miani Beach, Fla, Tuscaloosa, Ala. Charlotte, N. C.	3:55-4:10	WDAS WSYB WSYR WBRE WBRM	1370 1500 1290 570 1310 1370	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. IY. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30	WIBU S WKAT WJRD WSOC WAML	1210 econd 1500 1200 1210 1310	Poynette, Wis. Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss.	3:55-4:10 4:00-4:15 4:05-4:20	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC	1370 1500 1290 570 1310 1370 1500	Philadelphia, Pa. Rutland, Vt. Saranae Lake, N. IY. Syracuse, N. Y. Wilkea-Barre, Pa. Danville, Va. New London, Conn.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35	WIBU S WKAT WJRD WSOC WAML WPRA	1210 econd 1500 1200 1210 1310 1370	Poynette, Wis. Thursday Miami Beach, Fla, Tuscaloosa, Ala, Charlotte, N. C. Laurel, Miss. Mayaguez, P. R.	3:55-4:10 4:00-4:15	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB	1370 1500 1290 570 1310 1370 1500 1210	Philadelphia, Pa. Rutland, Vt. Saranae Lake, N. JY . Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40	WIBU S WKAT WJRD WSOC WAML WPRA WPAX	1210 •cond 1500 1200 1210 1310 1370 1210	Poynette, Wis. Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC	1370 1500 1290 570 1310 1370 1500 1210 1430	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. İY . Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Cona. Freeport, N. Y. Rochester, N. Y.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45	WIBU S WKAT WJRD WSOC WAML WPRA WPAX WQAM	1210 •cond 1500 1200 1210 1310 1370 1210 560	Poynette, Wis. Thursday Miami Beach, Fla, Tuscaloosa, Ala, Charlotte, N. C. Laurel, Miss. Mayaguez, P. R.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30	WDAS WSYB WSYR WBRE WBTM WNLC WGBB WHEC WTHT	1370 1500 1290 570 1310 1370 1500 1210 1430 1200	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. Hartford, Conn.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40	WIBU S WKAT WJRD WSOC WAML WPRA WPAX	1210 •cond 1500 1200 1210 1310 1370 1210	Poynette, Wis. Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ	1370 1500 1290 570 1310 1370 1500 1210 1430 1200 1500	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. İY . Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Cona. Freeport, N. Y. Rochester, N. Y.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50	WIBU S WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP	1210 •cond 1500 1200 1210 1310 1370 1210 560 1420	Poynette, Wis. Thursday Mianii Beach, Fia. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fia. Ponce, P. R.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30	WDAS WSYB WSYR WBRE WBTM WNLC WGBB WHEC WTHT	1370 1500 1290 570 1310 1370 1500 1210 1430 1200	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. fY . Syracuse, N. f. Wilkes-Barre, Pa. Dauville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:36-3:50 3:40-3:55	WIBU S WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC	1210 •cond 1500 1200 1210 1310 1370 1210 560 1420 1200	Poynette, Wis. Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponee, P. R. Kinston, N. C.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK	1370 1500 1290 570 1310 1370 1500 1210 1430 1200 1500 1370	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. [Y , Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Com. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00	WIBU S WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ	1210 •cond 1500 1200 1210 1310 1370 1210 560 1420 1200 1240	Poynette, Wis. Thursday 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.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35	WDAS WSYB WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW	1370 1500 1290 570 1310 1370 1210 1430 1200 1500 1370 1310	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. [Y , Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Com. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05	WIBU S WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG	1210 econd 1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1240 1440	Poynette, Wis. Thursday 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.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY	1370 1500 1290 570 1310 1370 1210 1430 1200 1500 1370 1310 1210	Philadelphia, Pa. Rutland, Vt. Saranac Luke, N. fY . Syracuse, N. f. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10	WIBU S WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY	1210 econd 1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1240 1440 1210	Poynette, Wis. Thursday 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.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WDAS WSYB WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL	1370 1500 1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1200	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. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, H.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:25-3:40 3:20-3:35 3:32-3:45 3:35-3:40 3:45-4:100 3:55-4:100 3:55-4:10	WIBU S WKAT WJRD WSOC WAML WPRA WQAM WPRP WFTC WKAQ WBIG WFOY WAGF	1210 econd 1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1240 1210 1370	Poynette, Wis. Thursday 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.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40	WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE	1370 1500 1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1200 1420	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. fY . Syracuse, N. f . Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn.
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10	WIBU S WKAT WJRD WSOC WAML WPRA WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC	1210 econd 1500 1200 1210 1310 1210 1210 1210 1200 120	Poynette, Wis. Thursday Miami Beach, Fla, Tuscaloosa, Ala, Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla, Ponee, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla, Dothan, Ala, Lake Charles, La,	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50	WDAS WSYB WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB	1370 1500 1290 570 1310 1370 1210 1210 1200 1370 1310 1210 1210 1200 1420 1420 1420	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. [Y , Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Com. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa
5:40-5:55 3:00-3:15 3:05-3:20 3:10-3:35 3:25-3:40 3:20-3:35 3:32-3:45 3:35-3:40 3:45-4:100 3:55-4:100 3:55-4:10	WIBU S WKAT WJRD WSOC WAML WPRA WQAM WPRP WFTC WKAQ WBIG WFOY WAGF	1210 econd 1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1240 1210 1370	Poynette, Wis. Thursday 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.	3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WDAS WSYB WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK	$\begin{array}{c} 1370\\ 1500\\ 1290\\ 570\\ 1310\\ 1370\\ 1210\\ 1210\\ 1430\\ 1200\\ 1500\\ 1370\\ 1310\\ 1210\\ 1210\\ 1200\\ 1360\\ 1500\\ 1590\\ 890\\ \end{array}$	Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. [Y , Syracuse, N. 1. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Il. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark.
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3:50-4:05	WGAR	1450	Cieveland, Ohio		KVOL	1310	Lafayette, La.
	WOLS	1200	Florence, S. C.	5:00-5:15	KBIX	1500	Muskogee, Okla.
3:55-4:10	WCOL	1210	Columbus, Ohio		WBNO	1200	New Orleans, La.
0.00 1.10	WLAK	1310	Lakeland, Fla	5:05-5:20	KPAC	1260	Port Arthur, Tex.
4:00-4:15	WCAZ	1070	Carthage, Ill.	5:10-5:25	KANS	1210	Wichita, Kans.
1.00 1.10	WQBC	1360	Vicksburg, Miss.		WROL	1310	Knoxville, Tenn.
4:05-4:20	WJBO	1120	Baton Rouge, La.	5:15-5:30	KMLB	1200	Monroe, La.
4.00-4.20	WSMK	1380	Dayton, Ohio		KTRH	1290	Houston, Texas
4:10-4:25	WOMT	1210	Manitowoc, Wis.	5:20-5:35	KLPM	1240	Minot, N. D.
4.10-1.20	WTAL	1310	Tallahassee, Fla.	5:25-5:40	KVSO	1210	Ardmore, Okla.
4:15-4:30	WNEL	1290	San Juan, P. R.	5:30-5:45	KWLC	1270	Decorah, lowa
4.10-4.00	WOSU	570	Columbus, Ohio	5:35-5:50	KTSM	1310	El Paso, Texas
4:20-4:35	WDZ	1020	Tuscola, Ill.	5:40-5:55	KWTN	1210	Watertown, S. D.
1.20-1.00	WMSD	1420	Muscle Shoals, Ala.	5:45-6:00	WLB	1250	Minneapolis, Minn.
4:25-4:40	WGTM	1310	Wilson, N. C.	5:50-6:05	KOBH	1370	Rapid City, S. D.
4.20-1.10	WIIBU	1210	Anderson, Ind.	5:55-6:10	KPFA	1210	Helena, Mont.
4:30-4:45	WJBW	1200	New Orleans, La.	6:00-6:15	KIT	1250	Yakima, Wash
1.00-1.10	WKBN	570	Youngstown, Ohio	6:05-6:20	KGBU	900	Ketchikan, Alaska
4:35-4:50	WGPC	1420	Albany, Ga.	6:10-6:25	KFJI	1210	Klamath Falls, Ore.
1.00-1.00	WNAD	1010	Norman, Okla.	6:15-6:30	KGEZ	1310	Kalispell, Mont.
	WXYZ	1240	Detroit, Mich.	6:20-6:35	KGVO	1260	Missoula, Mont.
4:40-4:55	KOVC	1500	Valley City, N. D.	6:25-6:40	KGY	1210	Olympia, Wash.
4.40-1.00	WTAX	1210	Springfield, Ill.	6:30-6:45	KXRO	1310	Aberdeen, Wash.
	WTJS	1310	Jackson, Tenn.	6:35-6:50	KGCX	1450	Wolf Point, Mont.
4:45-5:00	KLCN	1290	Blytheville, Ark.	6:40-6:55	KFIO	1120	Spokane, Wash
4,40-0.00	WMBR	1370	Jacksonville, Fla.				Juneau, Alaska
	WMPC	1200	Lapeer, Mich.	6:45-7:00	KINY	1310	
4:30-5:05	KGCA	1270	Decorah, Iowa	6:50-7:05	KFQD	780	Anchorage, Alaska
4:55-5:10	KOCA	1210	Kilgore, Texas	6:55-7:10	KRLC	1390	Lewiston, Idaho

Universal DX

Club Corner

• • • By ''Pooky''



• **P**OOKY" says: "The wise man faces realities bravely. If he cannot reach the peak of the mountain, he does not refuse to enjoy the view from a lower level."

Every year, numerous newcomers to the ranks of DX-ers drop from sight, lose interest in the hobby, and the DX world hears of them no more. Why is this? Because they read of immense logs compiled by others, of unbelievable records attained, and of collections of verifications numbering in the thousands. And they say to themselves, "I could never catch up to them; what is *my* modest log compared to theirs?" They do not stop to think that the man who reached the top of the mountain was an experienced climber, that he reached it in easy stages, that he had patience, perseverance, and persistence.

And if they never reach the top, what of it? Is not the view as enjoyable from a lower level? Can they not look about them and enjoy the company of others at the same height?

Think this over, you who have been with us for only a year or two. Was the past season disappointing? No more so for you than for many others! Look ahead—look toward the future, the next season, and advance in easy stages. Before long, you will approach the peak of the mountain, and you will realize that the splendor of the view gradually unfolding itself as you climbed was much better than it would have been had you been suddenly thrust to the summit.

Communications for "Pooky" should be addressed in care of Universal DX Club Headquarters, 345 Maple Avenue, Oradell, N. J. Letters which are accepted for publication in this column are eligible for one of the prizes listed in the September issue of RADEX.

The DX Reporter

T HE DX program known as "The DX Reporter" has been a regular weekly feature of station WTAR, Norfolk, Va., for over two years. Under the direction of Lee Chadwick, this broadcast has shown a steady increase in popularity, and mail counts made in 1937 indicate that the "DX Reporter" polled ninth in appeal.

The "DX Reporter" features popular musical selections, as well as tips taken from the Universalite, official organ or the Universal Radio DX Club. A shortwave section was added recently in response to requests from followers of the program.

Offers of five issues of the club

bulletins are made occasionally, to check on the program's appeal, but its popularity was definitely proven when, in order to secure a better time for the feature, the schedule was changed from 1:45 pm, to a 9:45 am, spot. Since the time change was made too suddenly to announce in the local papers, a telephone operator was required most of the afternoon after two o'clock to give the tips individually to fans who 'phoned in because they had missed the programs that day.

All DX correspondence that is received by the station is handled by Lee Chadwick, and then passed on to the engineering department, headed by J. L. Grether, Technical Supervisor. Reports with postage enclosed are answered promptly, while those without return postage are answered only if the contents prove exceptionally interesting. Station stamps are available for the usual dime.

The SHORTWAVE STATIONS of the WORLD

Shortwave List Copyright 1938 by Page Taylor

In this index of the shortwave stations of the world, only stations which use voice are listed.

Frequencies are given in kilocycles per second. To change to megacycles, place a decimal point three digits to the left.

The studio locations are shown, and the location of the transmitter, when different from the studios, follows in parentheses.

Power is shown in watts, unless kilowatts (kw) is mentioned.

Following the power value, the symbols in parentheses indicate the type of station, as follows:

A—Airway	Em—Emergency
B—Broadcast	F—Forestry
C—Commercial	LH—Lighthouse
Phone	PPalice
CG-Coast Guard	R—Relay
E—Experimental	SS—Ship Phone

The word DRIFTS indicates that the

station is in the habit of shifting from its assigned frequency.

Abbreviations for identification aids are—Int. (Interval signal); s/o (sign-off); Ann (announcements); Add (Address); Hrs (Hours)

Jap—Japanese
Port—Portugese
Ru—Russian
Sp—Spanish

Unconfirmed stations, those under construction, and stations operating off their assigned frequencies, are given in *italics*.

****Asterisks indicate that the complete list of stations is given in another index.

All stations listed will verify for return postage unless otherwise noted. Return postage can be sent to foreign countries in the form of International Reply Coupons, available at any post office for nine cents cach. (X) means the station will not verify.

9570	TPB11	Paris, France (Essarts). (B) "Paris Mondial." Add: Minis- tere des Postes. Telegraphes et
		Telephones, Hrs: 1-4 a.m.;
11710	XEWB	10:15 a.m5 p.m. Guadalajara, Jal. 15 w. (B). Add: Camara de Propietarios de
	YSM	Guadalajara, Juarez 289. San Salvador, E. S. Owner:
11713	TPA4	Director, Radio Nacionales. Paris, France (Pontoise). (B). "Radio Coloniale." Add: Ministere des Postes, des Tele-
		Ministere des Fostes, des Tele- graphes et des Delephones, 98 bis, Bivd. Haussmann. Hrs: 6:15 a.m1 p.m.
11718	CR7BH	Lourenco Marchies Port East
		Africa. 200 w. (B). Add: Gremio dos Radiofilos da Colonia de Mocambique, Caixa 594. Hrs: Sun. 5:30-7 a.m. Other days
11720	CJRX	4:30-6:30 a.m.
		Winnipeg, Man. (Middlechurch). 2 kw. (B). Add: James Richard- son & Sons, Ltd., 157 Royal Alexandra Hotel. Hrs: 6 p.m
11730	PHI	midnt. Hilversum Netherlands 23600
		watts. (B). Ann: Du, Eng, Fr, Ger, Malay, Port, Sp. s/o: Nat'l anthem. Add: Philip's Omroep Holland-India, Emmasingel 29.
		anthem. Add: Philip's Omroep Holland-India, Emmasinget 29.
	WIXAL	Hrs: winter only. Boston, Mass. (B). Add:
		Educational Director, University Club.
11740	HP5L	David, Chiriqui, Panama. 350 w. (B). "Las Ondas del Baru." Add: Leo Marchosky, Mgr.,
		Aptdo 129.
11750	GSD	London, Gt. Britain. (Daven- try). 20 kw. (B). "D for Daven-
		try), 20 kw. (B), "D for Daven- try". For details see GSB on 9510. Hrs: 24:15 a.m.; 8:55- a.mnoon; 12:20-4 p.m.; 6-8:30
	HVJ	n m · 0.20-11.20 n m
		Vatican City. (B). Int: ticking of clock. Ann: "Laudatur Jesus Christus." Add: Ponti- ficia Accademia Della Scienze, Danie Cartier, Die Jil
		ficia Accademia Della Scienze, Roma-Castina Pio IV.
11760	OLR4B	Prague, Czechoslovakia. 35 kw. (B).
	TGWA	Guatemala City, Guat. 10 kw. (B). "The Voice of Guat."
		Add: Ministerio de Fomento. Verifies FREE.
11 76 5	XETA	Monterrey, N. L. 1 kw. (B).
		Monterrey, N. L. 1 kw. (B), Add: El Prezonero del Norte, S. A., Edificio Reyes, Box 203. Hrs: noon-3:30 p.m.
11770	DJD	Berlin, Germany, (Zeesen), 50 kw. (B). For details see DJN on 9540. Hrs: 10:40 a.m
		DJN on 9540. Hrs: 10:40 a.m 4:30 p.m.; 4:50-10:45 p.m.
11790	WIXAL	Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment."
		Add: Educational Director, University Club.
11795	DJO	Berlin, Germany. (Zeesen) (B). For details see DJN on 9540.
11796	0 AX5A	Ica, Peru. 100 w. (B). "Radio Universal." Add: J. Antonio Umbert F., Av. San Luis. Hrs: noon-4 p.m.; 7-11:30 p.m.
11800	COGF	Matanzas, Cuba, It kw. (B)
		Relays CMGF. Add: Cia. Pani- floadora de Matanzas, Calle Gral. Betancourt 51. Hrs: 1:30- 4 p.m.; 6-10 p.m.

	JZJ	Tokyo, Japan. (Nazaki). 50 kw. (B). Ann: Chinese, Eng, Fr. Ger, Jap. Port, Sp. s/o: "Kimagayo," nat'l anthem. Add: Nippon Hoso Kyokal, Over- seas Section, Broadcasting Corp. of Japan, Atago-Yama. Hrs: 12:30-1:30 a.m.; 4:30-5:30 p.m.;
	OER!	6-6:30 p.m. Vienna, Austria. 1500 w. (B).
11805	OZF	Viena, Austria. 1500 w. (B). "Radio Wien." Copenhagen, Denmark (Skamle- baek). (B). Add: Stratsradio- fonien, Tordensk føldsgade 3.
11810	2RO4	Hrs: 6:30-9 p.m. Rome, Italy. 25 kw. (B). "Radio Roma-Napoll." Ann: usually by lady. s/o: two nat'l anthems, "Giovinezza" and "Marchia Reale." Add: EIAR, Via Montello 5. Hrs: 5 a.m 12:20 p.m.
11820	GSN	London, Gt. Britain. (Daven- try). (B).
	NEBR	Hermosillo, Son. 150 w. (B). Add: Carlos Balderrama, Aptdo.
11850	KZRM	68. Hrs: noon-midnt. Manila, Philippine Isl. (B). "Radio Manila."
	W2XE	New York, N. Y. (Wayne, N. J.). 10 kw. (B). Relays CBS-WABC. s/o: "Star Spangled Banner." Add: Columbia Broadcasting System, 485 Madison Ave., NYC. Hrs: 2:30-6 p.m.; 6:30 p.mmidnt.
	W9XAA CSW	Chicago, 11. 20 kw. (B).
11840	KZRM	Lishom, Portugal. 5 kw. (B). Manila, P. I. (B). Add: Erlanger & Galinger, Inc., Regina Bidg., David St.
	OLR4A	Prague, Czecho (Podebrady). 35 kw. (B).
11845		Paris, France. (Essarts). (B), "Radio Coloniale."
11860	GSE	London, Gt. Britain., 20 kw. (B). "E for Empire." For more
	YDB	detalls see GSB on 9510. Sourabaya, Java, N.E.I. 1 kw. (B).
11870	1QY W8X K	Rome, Italy. (E). (X) Pittsburgh, Pa. (Saxon- burg). 40 kw. (B). Relays NBC-KDKA. Add: Westing- house Elec. & Mfg. Co., Grant Bidg.
1187 5	OLR4C	Prague, Czechoslovakia. 35 kw. (B).
11880	XEXA	Mexico City, D. F. 100 w. (B). Add: Secretaria de Educacion Publica, Argentina y L. G. Obregon.
11885	TPB7	Paris, France (Essarts). (B). Hrs:8:30-11 p.m.
11895	H P51	Aguadulce, Panama. (B). "La
11000	XEXR	voz del Interior. Int: strokes on gong. s/o: "El Tambor de la Alegria." Mexico City, D. F. 106 w. (B). See NEXA on 11880 for data.
11900	CD1190	Valdivia, Chile. (B). "Radio Sur." Relays CD69. Add: C. Kahler y Cla, Ltda., Casilla 642. Hrs: 10 a.m1 p.m.; 7-10 p.m. Prepue Czecho- 35 kw. (B)
	OLR4D XEWI	Hrs: 10 a.m1 p.m.; 7-10 p.m. Prague, Czecho- 35 kw. (B) Mexico City, D. F. 400 w. (B). "My Voice to the World From Mexico." s/o: "Ah. Sweet

13410	HHS	Port-au-Prince, Haiti. (C). San Juan, Puerto Rico. 400 w. Add: Radio Corp. of P. R.
	WCT	San Juan, Puerto Rico. 400 w.
		Add: Radio Corp. of P. R.
13530	TDH	Shinkio, Manchukuo. (C).
		Manchukuo Teleg. & Teleph.
10707	G B B	Co., Ltd.
13585	GBB	Rugby, Gt. Britain. See GDP on 7920.
13635	SPW	OR 7920. Wareaw Boland 10 km (B)
1.000	01 11	Warsaw, Poland. 10 kw. (B). Int: "The Haunted Castle." Add: Polskie Radjo, 5 Mazo-
		Add: Polskie Badio 5 Mazo-
	KKZ	(X) Bolinas, Calif. (C).
13745	CGA2	Drummondville, P. Q. (SS).
13760	TYE2	(N) Bolinas, Calif. (C). Drummondville, P. Q. (SS). Poutoise, France. 20 kw. (C).
		Add: Societe Francaise Radio- Electrique, 79 Blvd. Haussmann.
13780	KKW	(X) Bolinas Calif (C)
13820	SUZ	Cairo, Egypt. (Abu Zabal), (C).
13880	VJZ	 rains. (X) Bolinas, Cailf. (C). Cairo, Egypt. (Abu Zabal). (C). Raboul, New Guinea. (C). (X) Rocky Point, N. Y. (C). Shinkio, Manchukuo. (C). Berlin Germany. (Zensan). (E).
13900	WQP	(X) Rocky Point, N. Y. (C).
13980	TDC	Shinkio, Manchukuo. (C).
13986	DJS	Berlin, Germany. (Zeesen). (E).
13990	GBA2	Berlin, Germany. (Zeesen). (E). See DJN on 9540 kcs. Rugby, Gt. Britain. (C). See
	CIDAL	GDP on 7920
14050	EA9AH	(B), Add: F. Diaz Goinez,
		(B). Add: F. Diaz Gomez,
		Aptdo 124.
14000		
to 14400	AMATEU) RS
14420	HCLIB	Quito Ecusdor (B) "Badio
		Quito, Ecuador. (B). "Radio Rodante." Add: Clarence W.
		Jones, Casilia 691. Rugby, Gt. Britain. 15 kw. (C). Add: G.P.O. (Radio Section),
14440	GBW	Rugby, Gt. Britain. 15 kw. (C).
		Add: G.P.O. (Radio Section),
		Armour House, St. Marun's le
14460	DZH	Berlin Germany (Zeesen) (E)
14470	WDO	(X) Ocean Gate, N. J. 20 kw. (C).
	WMF	Add: C.P.O. (Radio Section), Armour House, St. Martin's le Grand, London ECI. Berlin, Germany. (Zeesen). (E). (X) Ocean Gate, N. J. 20 kw. (C). (X) Lawrenceville, N. J. (C). Managua, Nicaragua. (C). Bozota, Colombia. (C). Panama City, Panama. (C). La Lima Honduras. (C).
14480	YNA	Managua, Nicaragua. (C).
14485	HJA3	Bogota, Colombia. (C).
	HPF HRL5	La Lima, Honduras. (C).
	HRM	Tegucigalpa, Honduras. (C).
	YSJ	San Salvador, E. S. (C), Add:
		Telegrafos, Telefonos y Radio
14500	LSM2	Nacionales. Buenos Aires, Argentina. (C). Add: Cia. Internacional de
14000	1.5512	Buenos Aires, Argentina. (C). Add: Cia. Internacional de Radio, S. A., Defensa 143. Buenos Aires, Argentina. (C).
		Radio S A Defensa 143
14530	LSNI	Buenos Aires, Argentina. (C).
14535	нвј	Geneva, Switzerland. (Prangins).
		Geneva, Switzerland. (Prangins). (B and C). "Radio Nations." Add: Information Section,
		League of Nations.
14545	TOF	Guatemala City, Guat. (C).
	TIU	Guatemala City, Guat. (C). Cartago, Costa Rica. (C). Add:
		Cia. Radiografica Internacional de C. R.
14590	WMM	de C. R.
14090	WMN	(X) Lawrenceville, N. J. 20 kw. (C).
[4635	GBL	Rugby, Gt. Britain. (C). See
		GBW on 14440 kes.
14640	JVII	Nazaki, Japan. 20 kw. (C).
14800	WQV	(X) Rocky Point N Y (C)
$14845 \\ 14900$	OCJ2 LZA	Lima, Peru. (C). Sofia, Bulgaria. 1500 w. (B).
14900	LUA	Sona, Bulgaria. 1500 w. (B).
14910	JVG	Nazaki, Japan.
14930	нлв	Bogota, Colombia. (C),
1 1000	PSE	Rio de Janeiro, Brazil, (C).
14940	HIR	Trujilio, Dominican Rep. (C).
1 10 10	HJA3	Barranquilla, Colombia. (C).
14960		San Salvador, E. S. (C). Tele-
		grafos, Telefonos y Radio
		Nacionales.

14090	KAY	(V) Manila Dhilippino Isl. (C)
$14980 \\ 15000$	wwv	(X) Manila, Philippine Isl. (C). Beltsville, Md. Standard fre- quency transmissions irregularly.
15040	RKI	Moscow, U.S.S.R. (B). Add: Radio Centre, Soliánka 12. Hrs: 7-9:15 p.m.
15055	WNO	7-9:15 p.m.
	WNC	(X) Hialeah, Fla. 400 w. (C).
15080	RKI	Moscow, U.S.S.R. (C). Berlin, Germany. (Zeesen). (B).
15110	DJL	Bernn Germany (Zeesen). (B).
15116	OLR5C	Prague, Czechoslovakia. 35 kw.
15120	HVJ	(B). Vatican City. 10 kw. (B). Int: ticking of clock. Ann: "Lauda- tur Jesus Christus." Add: Pontificia Accademia Della
		Scienze, Roma-Castina Pio IV.
151 3 0	TPB6	Hrs: 10:30-10:45 a.m. Paris, France. (Essarts). (B). "Paris Mondial".
15140	GSF	London Gt Britain (Daven-
		Fortune." For more data see GSB on 9510 kcs. Hrs: 2-4:15
15150	YDC	a.m.; 5:45 a.mnoon. Bandoeng, Java, N.E.I. 3 kw. (B).
15155	SM58X	(B). Stockholm, Sweden. 500 w. (B).
		Stockholm, Sweden. 500 w. (B). s/o: Nat'l anthem. Add: Tele- grafverket Tjanstebrev Nr. 5. Hrs: Sun. 9 a.m5 p.m. Week-
		Hrs: Sun. 9 a.m5 p.m. week-
15160	JZK	days, 11 a.m5 p.m. Tokyo, Japan. (Nazaki). 50
	XEWW	KW. (B). See J_2J on 11800. Maxico City D E 10 kw (B)
	ABW 0	Tokyo, Japan. (Nazaki). 50 kw. (B). See JZJ on 11800. Mexico City, D. F. 10 kw. (B). "La Voz de la America Latina desde Mexico." Add: Aptdo
15170	CXA14	
10170	TGWA	Montevideo, Uruguay. (B) Guatemala City, Guat. 10 kw. (B). "The Voice of Guat." Add: Ministerio de Fomento.
		(B), "The Voice of Guat."
		Add: Ministerio de Fomento.
		Veries FREE. LAma, Peru. (B). "Radio
	· · · · · · · ·	Dinid, Fera. (D). Reale
15190		Madanal
15180		Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more
15180 15200		Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see GSB on 9510 kcs.
	GBO	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details
	D1B C80	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittshurgh Pa. (Saxonburg)
15200	D1B C80	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittshurgh Pa. (Saxonburg)
15200	GSO DJB W8XK	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDFAA. Add: Westinghouse Elee & Mrg Co. (Fant Bildg.
15200	G80 DJB W8XK	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDFAA. Add: Westinghouse Elee & Mrg Co. (Fant Bildg.
15200 15210	GSO DJB W8XK	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDFAA. Add: Westinghouse Elee & Mrg Co. (Fant Bildg.
15200 15210	GSO DJB W8XK	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220	G80 DJB W8XK PCJ	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220	GSO DJB W8XK	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220 15230	G80 DJB W8XK PCJ OLR5A	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220	G80 DJB w8XK PCJ OLR5A	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220 15230	G80 DJB W8XK PCJ OLR5A	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220 15230	G80 DJB W8XK PCJ OLR5A	Nacional." London, Gt. Britain. (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger. Malay, Port, Sp. s/o: Nat'l
15200 15210 15220 15230 15243	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." London, Gt. Britain, (Daven- try), "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mfg. Co., Grant Bldg. Huizen, Netheriands. 20 kw. (B). Ann: Dutch, Eng. Fr. Ger, Malay, Port, Sp. s/o: Nat'l anthem. Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha XII, Fochova Tr. 16. Praris, Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hause- mann Paris. Hrs: 5-10 a.m.
15200 15210 15220 15230	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." London, Gt. Britain, (Daven- try). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mig. Co., Grant Bidg. Huizen, Netheriands. 20 kw. (B). Ann: Dutch, Eug. Fr. Ger, Malay. Port, Sp. s/o: Nat'l anthem. Praha, Czechosłovakia. (Pode- brady). 35 kw. (B). Add: Praha XII, Fochova Tr. 16. Praris, Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hausa- mann, Paris, Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B).
15200 15210 15220 15230 15243	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." Nacional." London, Gt. Britain, (Daven- try). "O For Ocean." For more data see C3B on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mfg. Co., Grant Bildg, Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger, Malay, Port, Sp. s/o: Nat'l anthem. Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha, Ki, Foneoka Tr. 16. Paris, France (Essarts). "Paris Mondial." Add: Minis- ter des Postes, Telegraphes et Telephones, 98 bis Bivd. Hauss- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B).
15200 15210 15220 15230 15243	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." London, Gt. Britain, (Daven- try), "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mfg. Co., Grant Bldg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr, Ger, Malay, Port, Sp. s/o: Nat'l anthem. Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha XII, Fochova Tr. 16. "Paris Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Blvd. Hause- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment."
15200 15210 15220 15230 15243 15250	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." London, Gt. Britain, (Daven- try). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgb, Pa. (Saxonburg), 40 kw. (B). Relays NBC- KDKA, Add: Westinghouse Elec.& Mig. Co., Grant Bildg, Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng. Fr, Ger, Malay, Port, Sp. s/o: Nat'l anthem. Praha, Czechosłovakia. (Pode- brady). 35 kw. (B). Add: Prańs XII, Fochova Tr. 16. Prańs Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hauss- mann, Paris, Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni- versity Club.
15200 15210 15220 15230 15243	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." London, Gt. Britain, (Daven- try). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgb, Pa. (Saxonburg). 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgb, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mig. Co., Grant Bidg. Huizen, Netheriands. 20 kw. (B). Ann: Dutch, Eng. Fr. Ger, Malay. Port, Sp. s/o: Nat'l anthem. Praha, Czechosłovakia. (Pode- brady). 35 kw. (B). Add: Praha XII, Pochova Tr. 16. Praris, Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hausa- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni- versity Club.
15200 15210 15220 15230 15243 15250 15260	G80 DJB W8XK PCJ OLR5A TPA2 W1XAL GSI	Nacional." Nacional., Gt. Britain, (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mig. Co., Grant Bildg, Huizen, Netheriands. 20 kw. (B). Aon: Dutch, Eng. Fr. Ger. Malay, Port, Sp. s/o: Nat'l anthem. Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praris Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hauss- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni- versity Club. London, Gt. Britain. (Daven- try). (B). "T for Ireland."
15200 15210 15220 15230 15243 15250 15260	G80 DJB W8XK PCJ OLR5A TPA2	Nacional." London, Gt. Britain, (Daven- try). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgb, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mig. Co., Grant Bidg. Huizen, Netheriands. 20 kw. (B). Ann: Dutch, Eng. Fr. Ger. Malay. Port, Sp. s/o: Nat'l anthem. Praha, Czechosłovakia. (Pode- brady). 35 kw. (B). Add: Praha XII, Pochova Tr. 16. Prais Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hausa- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director. Uni- versity Club. London, Gt. Britain. (Daven- try). (B). "T for ireland." See GSB on 9510 for details. Trujhio, D. R. 500 w. (B).
15200 15210 15220 15230 15243 15250 15260	G80 DJB W8XK PCJ OLR5A TPA2 W1XAL GSI H13X	Nacional." Nacional., Gt. Britain, (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mfg. Co., Grant Bildg, Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr, Ger, Malay, Port, Sp. s/o: Nat'l anthem. Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha, KII, Fochova Tr. 16. Paris, France (Essarts). (B). "Paris Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hauss- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni- versity Club. London, Gt. Britain. (Daven- try). (B). "T for Ireland." See GSB on 9510 for details. Trujhio, D. R. 500 w. (B). Relays HIN. Director: J. R. Saladin.
15200 15210 15220 15230 15243 15250 15260	G80 DJB W8XK PCJ OLR5A TPA2 W1XAL GSI	 Nacional." Nacional." London, Gt. Britain, (Daventry). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgb, Pa. (Saxonburg), 40 kw. (B). Relays NBC-KDKA, Add: Westinghouse Elec. & Mig. Co., Grant Bidg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng. Fr, Ger, Malay Port, Sp. s/o: Nat'l anthem. Praha, Czechosłovakia. (Podebrady), 35 kw. (B). Add: Praha, Ciechosłovakia. (Podebrady), 35 kw. (B). Add: Praha, XII, Fochova Tr. 16. Praris, Mondial." Add: Ministere des Postes, Telegraphes et Telephones, 98 bis Bivd. Haussmann, Paris, Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, University Club. London, Gt. Britain. (Daventry). (B). "T for Ireland." See GSR on 9510 for details. Trujhlo, D. R. 500 w. (B). Relays HIX. Director: J. R. Saladin. New York, N.Y. (Wayne, N. J). 10 kw. (B). See W2XE on 11830
15200 15210 15220 15230 15243 15250 15250 15260 15270	G80 DJB W8XK PCJ OLR5A TPA2 W1XAL GSI H13X W2XE	Nacional." Nacional., Gt. Britain, (Daven- try). "O For Ocean." For more data see CSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC- KDKA. Add: Westinghouse Elec. & Mfg. Co., Grant Bildg, Huizen, Netheriands. 20 kw. (B). Ann: Dutch, Eng, Fr. Ger, Malay, Port, SD. s/o: Nat'l anthem. Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). Add: Praha, K. (B). Add: Praha, ST. (B). "Paris Mondial." Add: Minis- tere des Postes, Telegraphes et Telephones, 98 bis Bivd. Hauss- mann, Paris. Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni- versity Club. London, Gt. Britain. (Daven- try). (B). "T for Ireland." See GSB on 9510 for details. Trulilo, D. R. 500 w. (B). Relays HIX. Director: J. R. Saladin. New York, N. Y. (Wayne, N. J). 10 kw. (B). See W2XE on 11830 kcs.
15200 15210 15220 15230 15243 15250 15250 15260 15270	G80 DJB W8XK PCJ OLR5A TPA2 W1XAL GSI H13X	 Nacional." Nacional." London, Gt. Britain, (Daventry). "O For Ocean." For more data see GSB on 9510 kcs. Berlin, Germany. (Zeesen), 40 kw. (B). For more details see DJN on 9540 kcs. Pittsburgb, Pa. (Saxonburg), 40 kw. (B). Relays NBC-KDKA, Add: Westinghouse Elec. & Mig. Co., Grant Bidg. Huizen, Netherlands. 20 kw. (B). Ann: Dutch, Eng. Fr, Ger, Malay Port, Sp. s/o: Nat'l anthem. Praha, Czechosłovakia. (Podebrady), 35 kw. (B). Add: Praha, Ciechosłovakia. (Podebrady), 35 kw. (B). Add: Praha, Ni, Fonce (Essarts). (B). "Paris Mondial." Add: Ministere des Postes, Telegraphes et Telephones, 98 bis Bivd. Haussmann, Paris, Hrs: 5-10 a.m. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, University Club. London, Gt. Britain. (Daventry). (B). "T for Ireland." See GSR on 9510 for details. Trujhlo, D. R. 500 w. (B). Relays HIX. Director: J. R. Saladin. New York, N. Y. (Wayne, N. J). 10 kw. (B). See W2XE on 11830

		tune. s/o: "Horst Wessel Lied" and "Deutschlandlied." Add:
		and "Deutschlandlied." Add: Reichs-Rundfunk-Gesellschaft,
		Haus des Rundfunks, Masuren- allee, Berlin-Charlottenburg 9.
15290	LRU	Buenos Aires, Argentina. 5 kw.
		Buenos Aires, Argentina. 5 kw. (B). "Radio El Mundo." Add: Calle Maipu 555.
15300 15310	LYZ4 GSP	Kaunas Lithuania
		try), 20 kw. (B). "P For Brogges " Int: Boy Rolls: Big
		London, Gt. Britain. (Daven- try). 20 kw. (B). "P For Progress." Int: Bow Bells: Big Ben strikes hours, preceded by
		Westminster Chimes. s/o: "God Save The King." Add: British Brdcstg. Corp., London
15320	OLR5B	Praha, Czechoslovakia. (Pode- brady). 35 kw. (B). "Radio Podebrady." Add: Praha XII. Fochova Tr. 16. Schenectady. N. Y. 25 kw. (B).
		Podebrady." Add: Praha XII,
15330	W2XAD	Fochova Tr. 16. Schenectady, N. Y. 25 kw. (B).
	W6XBE	General Electric Co. Belmont, Calif. 20 kw. (B).
15340	DJR	General Elec. Co. Berlin, Germany. (Zeesen). 50
15355	KWU	kw. (B). See DJQ on 15310. (X) Dixon, Calif. 15 kw. (C). Berlin, Germany. (Zeesen).
15 3 60	DZG	Berlin, Germany. (Zeesen). (E). See DJQ on 15280.
15370	HAS3	Budapest, Hungary. 20 kw. (B).
		usually by lady, in Eng, Fr.
		Add: Radiolabor, Kiserleti Allo-
15415		(X) Dixon, Calif. 20 kw. (C).
15440	XEBM	Mazatlan, Sin., Mexico. 50 w. (B). "El Pregonero del Pacifico."
		(E), See DJQ on 15280. Budapest, Hungary. 20 kw. (H). "Justice for Hungary!" Ann: usually by lady, in Eng, Fr, Hungarlan, s/o: Nat'l anthem Add: Radiolabor, Kiserieti Allo- mas, Gyall-ut 22, Rudapest IX. (X) Dixon, Calif. 20 kw. (C). Mazatan, Sin, Metro. 50 m. (B). "El Pregonzo del Pacifico." Relays XEBL. Int: 4 chimes. s/o: "Quinbamba" Add: Difusora del Pacifico, S. A., Apido. 78. Shanghal, China. (C).
15800	XOJ	Pacifico, S. A., Apido. 78.
15810	LSL3	Buenos Aires, Argentina. (C).
15905 16030	TD1 KKP	Buenos Aires, Argentina. (C). Shinkio, Manchukuo. (C). (X) Kahuku, Hawaii. 50 w. (C). Rugby, Gt. Britain. (C).
16140 16440	GBX ****	Rugby, Gt. Britain. (C). Pan American Airways
16460	**** DHEY	Pacific Alaska Airways
16600	DOAL	S. S. "Europa." (SS).
$16765 \\ 16820$	DHTY NAA	Pan American Airways Pan Interioran Airways Pacific Alaska Airways S. S. "Deutschland." (SS). S. S. "Resolute." (SS). Arlington, Va. Time signals at 9:55 a.m. EST. Durbu. (C) Deleta f. Interior (C)
17080	GBC	9:55 a.m. EST. Rugby, Gt. Britain. 5 kw. (C). (X) Rocky Point, N. Y. 20 kw.
17120	WOO	(X) Rocky Point, N. Y. 20 kw. (SS).
$17225 \\ 17280$		S. S. "Rex." (SS). Dibouti French Somaliland
		Add: Chef de la Radiotele-
		Thurs. each month, 8-8:30 a.m.
17310	W2XGB	Add: Press Wireless, Inc.
	W3XL	(X) Rocky Point, N. Y. 20 kw. (SS). S. S. "Rex." (SS). Djibouti, French Somailland. Add: Chef de la Radiotele- grafique Djibouti. Hrs: First Thurs. each month, 8-8:30 a.m. Hicksville, N. Y. 5 kw. (E). Add: Press Wireless, Inc. New York, N. Y. (Bound Brook, N. J.). 20 kw. (E).
$17375 \\ 17480$	LSY VWY2	Buenos Aires, Arg. (C). Kirkee, Poona, India. (C). Add:
		New York, N. Y. (Bound Brook, N. J.). 20 kw. (E). Buenos Aires, Arg. (C). Kirkee, Poona, India, (C). Add: Indian Radio & Cable Com- munications Co., Ltd., Poona 6. Paramaribo, Surinam. (C).
17640	PZF	
17650 17755	XGM ZBW5	Shanghai, China. (C). Hong Kong. 2400 w. (B). Add:
		Box 200.
17760		Berlin, Germany. (Zeesen.) 50 kw. (B). See DJQ on 15310.
	W2XE	 berni, Cermany. (Nesser.) 50 berni, Cermany. (Nesser.) 50 New York, N. Y. (Wayne, N. J.), 10 kw. (B). Paris, France. (Essarts). (B).
17765	TPB3	N. J.). 10 kw. (B). Paris, France. (Essarts). (B). "Paris Mondial."
		i acits sylutitizer,

17770	РИЦ	Hiversum, Netherlands. 23600 w. (B). Ann: Dutch, Eng, Fr,
17780	W3XAL	 M. (B). Ann: Dutch, Eng. Fr. Ger, Malay, Port, Sp. s/o: Nat'l anthem. Add: Philips' Omroep Holland-Indie, Emmasingei 29, Eindboven. New York, N. Y. (Bound Brook, N. J.). 35 kw. (B). Relays NBC-WJZ. Ann: Eng. Fr. Ger, It. Span. s/o: "Star Spangled Banner." Add: NBC, Inc., Rockefeller Plaza. NU Mitcheebe Re. (Garamburg)
	W8XK	
	W9XAA W9XF	(A) the (B). Chicago, Ill. 5 the (B). Chicago, Ill. (Downer's Grove).
		10 kw. Paris, France. (Essarts). (B), "Paris Mondial." Tokyo Japan.
17785 17790	JZL GSG	London, Gt. Britain. (Daven- try). 15 kw. (B). "G for Greet- ing." See GSP on 15310 for
17800	TGWA	details. Guatemala City, Guat. 10 kw. (B).
18090	TYE	Pontoise France 20 kw (C)
18270	IUD	See TYE2 on 13760. Addis Ababa, Ethiopia. (C). Rugby, Gt. Britain. (C). (X) Lawrenceville, N. J. (C).
18310	GAS	Rugby, Gt. Britain. (C).
18350	WLA	(X) Lawrenceville, N. J. (C).
18385	FZS	
18450	HBF	Geneva, Switzerland. (B). "Radio Nations."
18480	нвн	
18620	GAU	gins). (B). "Radio Nations." Rugby, Gt. Britain. (C). Lima, Peru. (C). All America Cables, Inc., Casilia 2336.
18680	OCC2	Lima, Peru. (C). All America
		Cables, Inc., Caslila 2336.
18830	PLE	Bandoeng, Java, N.E.I. 40 kw.
18890	ZSS	Cape Town, Union of So. Africa
18970 19020	GAQ HS8PJ	(C). Cape Town, Union of So. Africa (Klipheuvel). (C). Add: Over- seas Communications of S. A., Ltd., Kotdak House, Box 962. Rugby, Gt. Britain. (C). Bangkok, Slain. 5 kw. (B). Ann: Eng. Fr., Slamese. Int: 3 ascending chines. Add: Post & Telegraph Dept. (X) Dixon, Calif. 20 kw. (C).
		ascending chimes. Add: Post &
19080	KNY	(X) Divon Calif 20 kw (C)
19080	LSM3	(X) Dixon, Calif. 20 kw. (C), Buenos Alres, Argentina. (C).
19220	WDP	(X) Ocean Gate, N. J. 20 kw.
		(SS).
19480	GAD	Rugby, Gt. Britaln. (C).
19520	IRW	Rome, Italy. (C).
19630	VQG	Nairobi, Kenya. (C), Add:
		Cable & Wireless, Ltd., Box 777.
20020	\mathbf{DFZ}	Nauen, Germany. (C). Add:
00000		Berlin W66, Leipziger Str. 15
20380	GAA	Rugby, Gt. Britain, 15 kw. (C).
21020	LSN6 LSLA	Buenos Alres, Arg. (U). Buenos Alres Arg. (Hurling
21160	LOLA	 (SS). Rugby, Gt. Britaln. (C). Rome, Italy. (C). Nairobl, Kenya. (C). Add: Cable & Wireless, Ltd., Box 777. Nauen, Germany. (C). Add: Berlin W66, Leipziger Str. 15 Rugby, Gt. Britain, 15 kw. (C). Buenos Alres, Arg. (C). Buenos Alres, Arg. (Hurlingham). (C).
21450	OL R6A	Praha, Czechoslovakta, (B).
21460	WIXAL	Boston, Mass. 10 km. (B).
21470	GSH	London, Gt. Britain (Daven-
21110		Hallin, (C), Czechoslorakta. (B). Boston, Mass. 10 kv. (B). London, Gt. Britaln (Daven- try). (B). "II For Home." See GSP on 15310.
21500	W2XAD	Schenectady, N. Y. 50 kw. (B). General Elec. Co. Hrs: 8 a.m noon.
21520	JZM W2XE	Nazaki, Japan New York, N. Y. (Wayne, N. J.).
	W\$X.4U	10 kw. (B). Philadelphia, Pa. (Newtown Square). (B).
2153 0		
	GSJ	London, Gt. Britain. (Daven- try). (B). "J For Justice." See
21540		London, Gt. Britain. (Daven- try). (B). "J For Justice." See GSP on 15310. Pittsburgh, Pa. (Saxonburg).

		40 kw. (B).
2155 0	GST	London, Gt. Britain. (Daven-
		try). (B). "T for Transmitter." See GSP on 15310.
25950	W4XH	Spartanburg, S. C. 50 w. (B).
		Relays WSPA.
	W6XKG	Los Angeles, Calif. 100 w. (B). Relays KGFJ.
	W9XUP	St. Paul, Minn. 1 kw. (B).
26050	****	Relays KSTP. High Frequency Broadcast.
26100	GSK	London, Gt. Britain. (Daven-
		London, Gt. Britain. (Daven- try). (B). "K for King." See GSP on 15310.
	W9XJL	GSP on 15310. Superior, Wis, 80 w. (B). Re-
	M973D	lays WEBC.
26400	W9XAZ	Superior, Wis. 80 w. (B). Re- lays WEBC. Milwaukee, Wis. 500 w. (B). Relays WTMJ.
2 6500	****	High Frequency Broadcast
26550	W2XQO	Flushing, N. Y. 100 w. (B).
		Relays WMCA.
28000 to		AMATEURS
30000		
30100	****	Ultra High Freq. Police
30604 31100	IAG ****	Golfo Aranci, Sardinia. 5 kw.
31600	****	High Frequency Broadcast High Frequency Broadcast
******	****	High E-squapor Police
31900	****	High Frequency Police High Frequency Police
33100 34100	**** K6XCG	Manawahua, Hawaii, 150 w.
34100	NUNCO	(C). Mutual Telephone Co.
34600	****	High Frequency Broadcast
35200	K6XCC	Waikiki, Hawaii. 150 w. (C). Mutual Tele. Co.
35600	are exercised.	New York City Fire Boats, as
		follows:
	W2XNA W2XNB	"James Duane" "Thomas Willett" "William Strong"
	W2XNC	"William Strong"
	W2XND	"George McCiellan"
	W2XNE	"William Gaynor"
		"Tohn D Mitchal"
	W2XNF W2XNG	"John P. Mitchel" "Abram Hewitt"
	W2XNF W2XNG W2XNH	"John P. Mitchel" "Abram Hewitt" "John Harvey"
	W2XNH W2XNI	"John P. Mitchel" "Abram Hewitt" "John Harvey" "Cornelius Lawrence" Tondor "Contein Connell"
	W2XNH W2XNI W2XNJ	"John P. Mitchel" "Abram Hewitt" "John Harvey" "Cornelius Lawrence" Tondor "Contein Connell"
	W2XNH W2XNI W2XNJ ****	"John P. Mitchel" "Abram Hewitt" "John Harvey" "Cornelius Lawrence" Tender "Captain Connell" High Frequency Police
37100	W2XNH W2XNI W2XNJ **** ****	"John P. Mitchel" "Abram Hewitt" "John Harvey" "Cornelius Lawrence" Tender "Captain Connell" High Frequency Police
37100 37600 38100	W2XNH W2XNI W2XNJ	"John P. Mitchel" "Abram Hewitt" "John Harvey" "Cornelius Lawrence" Tender "Captain Connell" High Frequency Police
37600	W2XNH W2XNI W2XNJ	"John P. Mitchel" "Abram Hewitt" "John Harvey" "Cornelius Lawrence" Tender "Captain Connell" High Frequency Police High Frequency Breadcast High Frequency Breadcast High Frequency Police High Frequency Police
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WHAT'S ON THE AIR TONIGHT

Fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

Network	Stations
Canadian (CBC)	
Columbia (C)	· · · · · · · · · · · · · · · · · · ·
Mutual (M)	
National Red (R)	
National Blue (B)	

Time: ED Eastern Daylight; E Eastern; C Central; M Mountain While these programs are correct at the time of going to press, changes are made frequently.

MONDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 Boake Carter

KDAL KFAB KFH KGKO KGLO KLRA KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WAPI WBBM WBIG WBNS WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDOD WDRC WEEI WEOA WFAM WFBL WFBM WGAR WGST WHAS WHEC WHIO WHP WIBW WISN WJAS WJR WKBB WJSV WKBII WKBN WKBW WKRC WNAX WLAC WMBD WMBR WNOX WOC WOKO WORC WPRO WQAM WREC WRVA WTAQ WWL WWVA

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

CRCT KDKA WBAL WBZ WBZA WIOD WJAX WFLA WIZ WLW WMAL WOOD WRVA WSYR WTAM WXYZ.

C — Lum and Abner

KFAB KMBC KMOX KNOW KOMA KRLD KRNT KTRH KTSA KTUL WABC WBBM WBNS WBT WCAO WCAU WCOA WDAE WDBJ WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WHIO WJR WJSV WEBW WERC WLAC WMBR WOKO WPRO WOAM WREC WRVA

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

C — Andrew Sisters; Jack Fulton WABC WADC WBT WCAO WCAU WDRC WEAN WEEI WFBL WGR WHEC WHK WJAS WJR WJSV WKRC WOKO WSPD WTOC WWVA

R — Amos 'n' Andy KSD KSTP KYW WBEN WCAE WCSH WEAF WFBR WGY WHO WJAR WLW WNAC WRC WTAG WTAM WTIC WWJ

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 R — Uncle Ezra's Radio Station

KARK KFYR KGBX KGNC KPRC KSTP KTBS KTHS KVOO KYW WBAP WBEN WCAE WCKY WCOL WCSH WDAF WDAY WEAF WEBC WFAA WFBR WGBF WGY WHO WIBA WIRE WJAR WKY WMAQ WNAC WOAI WOOD WOW WRC WTAG WTAM WTIC WTMJ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 - Eddie Cantor; Deanna Durbin ^

KDAL KFAB KFH KGKO KGLO KLRA KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WADC WALA WBBM WBIG WBNS WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WEOA WFAM WFBL WGAR WGBI WGR WGST WHAS WHEC WHIO WHLB WHP WIBW WIBX WISN WJAS WJNO WJR WKSV WKBH WKBN WKRC WLAC WLBZ WMAS WMBR WMBD WMFG WMMN WNAX WNBF WNBX WNOX WOC WOKO WORC WPRO WOAM WREC WRVA WSFA WTAQ WTOC WWL

M — The Lone Ranger WFIL WNBF WSYR WOR WXYZ

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C - Kay Thompson; R. Himber KDAL KGLO KLRA KMOX WABC WADC WBRK WCAU WCCO WDRC WEEI WFBL WGAR WGR WHLB WJAS WJR WKRC WLBZ WMAS WMFG WNAX WNBX WOC WOKO

WORC WPRO - Burns and Allen

CRCT KYW WBEN WCAE WCSC WCSH WEAF WFBR WFLA WGY WHO WIOD WIRE WIS WJAR WJAX WLW WMAQ WNAC WPTF WJAR WRC WRVA WSOC WTAG WTAM WTAR WTIC WWJ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Pick and Pat KFAB KMBC WABC WADC WBBM

WBT WCAO WCAU WDRC WEAN WFBL WGR WGST WHEC WHK WHP WICC WJAS WJR WJSV WHP WICC WJAS WJA WJSV WKRC WLBZ WMAS WNAC WOKO WORC WSPD

Voice of Firestone

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

B - Those We Love

KDKA KDYL KFI KHQ KOA KOIL KOMO KPO KSO KWK WABY

WBAL WBZ WBZA WCKY WEAN WEBR WFIL WHAM WHK WIBA WICC WJZ WLS WMAL WMT WICC WREN WSPD WSYR WTAR WXYZ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 Boake Carter KEPY KGAR KIRO KLZ KNY

KOIN KOY KSFO KSL KVI KVOR

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

CFRB CKAC KFAB KFH KFPY KLRA KLZ KMBC KMOX KNOW KNX KOH KOIN KOL KOMA KRLD KRNT KSFO KSL KTRH KTSA KTUL KVI WABC WADC WBBM WBNS WBRC WBT WCAO WCCO WDAE WDBJ WDRC WEEL WFBL WFBM WGAR WGST WHAS WHEC WHIO WIBX WISN WIAS WJR WJSV WKBW WKRC WLAC WMAS WMBD WNAX WOKO WORC WPRO WQAM WREC WRVA WWL Also on Canadian Network

R -– Phil Snitalny's Girl Orchestra

CBL CBM KDYL KFI KGHL KGIR KGW KHQ KIDO KOA KOMO KPO KPRC KSD KSEI KSTP KTAR KVOO KYW WAVE WBEN WBRC WCAE WCSH WDAF WDEL WEAF WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOAI WOW WPTF WRC WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ ww.r

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 **R** — Contented Program

CFCF CRCT KDYL KFI KGW KHO KOA KOMO KPO KPRC KSD KYW WBEN WCAE WCSH WDAF WEAF WEEL WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WTAG WTAM WTAR WTIC WWJ WWNC Also on Canadian Network

– Wayne King and Orchestra

KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRNT KSL KVI KWG WAAB WABC WADC WBBM WBNS WBT WCAO WCAU WCCO WDRC WEAN WFBL WFBM WHAS MONDAY (Continued)

WHK WIBW WJAS WJR WJSV WKBW WKRC WOKO WSPD WWL

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 Eddie Cantor; Deanna Durbin KFPY KGAR KIRO KLZ KNX KOIN KOY KSFO KSL KVI WFBM R - Burns and Allen

KARK KDYL KFBK KFI KFYR KFBX KGHL KGIR KGNC KGO KGW KHQ KMJ KOA NOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KWG WAVE WDAF WDAY WEBC WFAA WIBA WJDX WKY WMC WOAI WOW WSB WSMB WTMJ

M -- The Lone Ranger

KDB KDON KFRC KFXM KGB KGDM KHJ KPMC KVOE KXO Available also to West Coast Section

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C - Andrew Sisters; Jack Fulton

KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMOX KOIN KOL KOMA KRLD KRNT KSL KTRH KTSA KVI WBBM WBRC WCCO WFBM WGST WLAC WREC WWL

R - Amos 'n' Andy

KDYL KERN KFBK KFI KGW KHQ KMJ KOA KOMO KPO KPRC KSD KWG WDAF WFAA WHO WIRE WKY WMAQ WMC WOAI WOW WSB WSM WSMB

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 - Pick and Pat c

KFPY KGKO KLRA KLZ KMOX KNX KOIN KOL KOMA KRLD KRNT KSCI KSFO KSL KTUL KRNT KSCJ KSFO KSL KTUL KVI KWKH WACO WBRC WCCO WFBM WHAS WLAC WREC

TUESDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 - Boake Carter, see Monday

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

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C - Jack Fulton, See Monday

R Amos 'n' Andy, See Monday R -Easy Aces

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 Geo. McCall, Hollywood Talk C KFAB KFH KLRA KMOX KNOW KOMA KRLD KRNT KTRH KTSA KWKH WABC WADC WBBM WBNS WBT WCAO WCAU WCCO WCHS WDAE WDBO WDOD WDRC WEEI WFBL WGAR WGBI WGST WHAS WHEC WHIO WIBW WISN WJAS WJR WJSV WKRC WLAC WMAS WMBR WOC WOKO WORC WPRO WOAM WREC WRVA WWL

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 - Helen Menken, Drama c

KFAB KFPY KIRO KLZ KMBC KMOX KNX KOIN KRNT KSFO KSL KVI WABC WBBM WCAO WCAU WDRC WEEI WFBL WGAR WGR WHAS WHEC WHIO WJAS WJR WJSV WKRC WOKO WORC WPRO

B — Dorothy Thompson; News WBAL WBZ WBZA WENR WHAM WIZ WSVR

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R - Johnny with Russ Morgan KFYR KPRC KSD KSTP KTBS KTHS KVOO KYW WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WNAC WOW WPTF WRC WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

- Edward Robinson; Claire Trevor с. CBM CFRB KFAB KFH KFFY KIRO KLRA KLZ KMBC KMOX KNOW KNX KOIN KOMA KRLD KRNT KSFO KSL KTRH KTSA KTUL KVI WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WEEL WFBL WFBM WGAR WGR WGST WHAS WHEC WHIO WIBX WISN WJAS WJR WJSV WKRC WLAC WMAS WMBD WNAX WOKO WORC WPRO WOAM WREC WRVA WWL Also on Canadian Network

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 c Al Joison; Parkyakarkus

CFRB CRCM KFAB KFH KLRA KMBC KMOX KNOW KOMA KRLD KRNT KTRH KTSA KTUL WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WEEL WFBL WFBM WGAR WGR WGST WHAS WHEC WHIO WIBX WISN WJAS WJR WJSV WKRC WLAC WMAS WMBD WNAX WOKO WORC WPRO WQAM WREC WRVA WWL

Aiso on Canadian Network

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS KVOO KYW WAVE WBAP WBEN KTBS WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEL WFBR WGY WHO WHIO WIBA WIRE WJAR WJDX WKY WMAQ WMC WOAI WOW WRC WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C - Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 с Al Pearce and Gang

CFRB CKAC KFAB KFH KGKO KLRA KMBC KMOX KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBH WKBN WKBW WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WMMN WNAC WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC WWL

P -- Vox Pop; Sidewalk Interviews KSD KYW WBEN WCAE WCKY WCSH WDAF WEAF WEEI WFBR WGY WHO WIRE WJAR WMAQ WOW WRC WTAG WTAM WTIC WWJ

B --- Horace Heidt Orchestra

KANS KDKA KFI KFSD KGA KGO KGW KJR KLO KOIL KPRC KSO KTHS KVOD KWK WAVE WBAL WBAP WBZ WBZA WEAN WEBR WFIL WFLA WHAM WHK WICC WIOD WIS WJAN WJZ WKY WLS WLW WMAL WMC WMT WOAL WPTF WREN WSB WSM WSMB WSOC WSPD WSUN WSYR WTAR WTCN WXYZ

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

ED-330 p.m., E-8330, C-7330, M-6530 C — Benny Goodman's Orchestra KFAB KFH KFFY KCKO KIRO KLRA KLZ KMBC KMOX KNOW KNX KOIN KOMA KOY KRLD KRNT KSCJ KSFO KSL KTIRH KTSA KTUL KVI KVOR KWKH WABC WACO WADC WALA WBBM WDIC WPAS WBDS WDIC WCAO WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WHIO WHP WIBW WIBX WISN WJAS WJR WJSV WKBB WKBN WKBW WKRC WLAC WI.BZ WMAS WMBD WMBR WNAX WNBF WNOX WOC WOKO WORC WPG WPRO WOAM WREC WRVA WSBT WSFA WSJS WTOC WWL

R - Fibber McGee and Molly

CFCF. CRCT KDYL KFI KGHL KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBAP WBEN WCAE WCOI, WCSC WCSH WDAF WDEL WEAF WEBC WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WMAQ WMBG WNAC WOAL WOOD WOW WMC WRC WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ wwi

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Hal Kemp; Judy Starr KFAB KMBC KMOX KRNT WABC

WBBM WBIG WBNS WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WJAS WJNO WJR WJSV WKBW WKRC WMBR WMMN WOKO WORC WPG WPRO WQAM WRVA WTOC

R - Believe It or Not-Ripley

KANS KARK KDYL KELO KERN KFBK KFDM KFI KFYR KGBX KGNC KGW KHQ KMJ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTSM KVOO KWG KYW WAVE WBAP WBEN WBRC WBRE WCAE WCOL WCSH WDAF WDAY WDEL WEAF WEBC WFBC WFBR WFLA WGBF WGL WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WORK WOW WPTF WRC WROL WSAI WSB WSM WSMB WSOC WSPD WSUN WTAG WTAM WTAR WTIC WTMJ WWJ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 R - Jimmy Fidler Hollywood Gossip KDYL KFI KGW KHQ KOA KOMO KPO KSD KTAR KYW WBEN WCAE WCSH WDAF WEAF WFBR WGY WHO WJAR WLW WMAQ WNAC WOOD WOW WRC WTAG WTAM WTIC WWJ

TUESDAY (Continued)

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 R — Dale Carnegie; Winning Friends KDYL KFI KGW KINQ KOA KOMO KPO KSD KSTP KYW WBEN WCAF WCSHI WDAF WDEL WEAF WFBR WGY WHO WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

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

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C — Geo. McCall, Hollywood Talk KFPY KIRO KLZ KMBC KNX KOIN KSFO KSL KVI

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — AI Joison; Parkyakarkus KFPY KLZ KNX KOIN KOL KSFO KSL KVI Also on Canadian Network

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ED-Midn't., E-11:00, C-10:00, M-9:00 C — Al Pearce and Gang KFBB KFPY KGVO KLZ KNX KOH KOIN KOL KOY KSFO KSL KVI KVOR

WEDNESDA Y

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C — Boake Carter, see Monday

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

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

C — Jack Fulton, See Monday

R - Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 R --- Uncle Ezra, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 M — Lone Ranger, see Mon.

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

KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLD KRNT KSL KVI KWG WABC WBBM WBNS WCAU WCCO WDRC WEAN WFDL WFBM WGR WHAS WHEC WHK WJAS WJR WJSV WKRC WLAC WMBG WNAC WOKO WTOC WWL

R - One Man's Family

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

Also on Canadian Network

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Ben Bernie; Lew Lehr

KDAL KFAB KFBB KFB KFP KFP KGAR KGKO KGLO KIRO KLRA KLZ KMBC KMOX KNOK KNX KOH KOIN KOMA KOY KRJD KRNT KSCJ KSFO KSL KTRH KTSA KTUL KVI KVOR KWKH

WABC WACO WALA WBBM WBIG WBNS WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDNC WDOD WDRC WEEL WEOA WFBL WFBM WGAR WGBI WGST WHAS WHEC WHIO WHEB WHP WIBW WIBX WISN WJAS WJNO WJR WJSV WKBB WKBH WKBW WKRC WLAC WLBZ WMAS WMRD WMBR WMFG WMMM WNAX WNBF WNBX WNOX WOC WOKO WORC WPG WPRO WQAM WREC WRVA WSBT WSFA WSJS WTAQ WTOC WWL

B — Harriet Parsons

KDKA KECA KFEL KFSD KGA KGO KJR KLO KOH, KSO KWEAN WEBR WFIL WHAM WHK WICC WJZ WLS WMAL WMT WOWO WREN WSPD WSYR WXYZ

R — Tommy Dorsey Orchestra

KDYL KFT KGW KHQ KOA KOM KPO KPRC KSD KSTP KTBS KYW WAVE WBEN WBRC WCAE WCSH WDAF WDEL WEAF WFAA WFBR WFLA WGY WHO WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOOD WOW WPTF WRC WSB WSM WSMB WSUN WTAG WTAM WTAR WTIC WWJ WWNC

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C — Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 - Chesterfield: Andre Kostelanetz c KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KGMB KHJ KLKA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBG WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WISN WJAS WJR WJSV WICC WKBH WKBW WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WNAC WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC WWL.

R — Town Hall Tonight

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

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Crime Crusade; Phil Lord

KDB KERN KFAB KFBK KFH KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMON KOIN KOL KOMA KRLD KRNT KSL KTRH KTSA KTUL KVI KWG KWKH WABC WACO WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WEAN WFBL WFBM WGST WHAS WHEC WHK WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMBG WMBR WNAC WOKO WORC WOWO WQAM WREC WTOC WWL

R — Kay Kyser Orchestra

KARK KDYL KERN KFBK KFI KFYR KGBX KGHL KGIR KGNC KGU KGW KHQ KIDO KMJ KOA KOB KOMO KPO KPC KSD KSEJ KSTP KTAR KTBS KTHS KTSM KWG KYW WAVE WBEN WBRC WCAE WCSC WCSH WDAF WDAY WDEL WEAF WEBC WFAA WFBC WFBR WFEA WFLA WGL WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WORK WOW WPTF WRC WSB WSM WSMB WSOC WJN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — It Can Be Done

KFAB KMBC KMOX KRNT WABC WBBM WBNS WCAU WCHS WDRC WEEI WFBL WFBM WHAS WHEC WHIO WIBX WJAS WJR WKBW WMAS WNBF WOC WOKO WORC WFRO

M — Lone Ranger, see Mon.

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

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Ben Bernie; Lew Lehr KARM KFBB KFPY KGAR KIRO

KARM KFBB KFPY KGAR KIRO KLZ KNX KOH KOIN KOMA KOY KSFO KSL KVI

THURSDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C --- Boake Carter, see Monday

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

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

C — Jack Fulton, See Monday

R --- Amos 'n' Andy, See Monday B --- Easy Aces, See Tuesday

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

C - Geo. McCali, see Tues.

KFAB KMBC KMÓX KNOW KOMA KRLD KRNT KSCJ KTRŮ KTSA KTUL WABC WBBM WBNS WCAO WCAU WCCO WDAE WDBO WDRC WEEI WFBL WCAR WGR WHAS WHEC WHIO WHP WIBX WISN WJAS WJR WJSV WKRC WMBD WMBR WOC WOKO WPRO WQAM

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C — Kate Smith; Jack Miller

CFRB CRCM KDAL KFAB KFH KGKO KLRA KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDOD WDRC WEEI WEOA WFBL WFBM WGAR WGG WGST WHAS WHEC WHIO WHP WIBW WISN WJAS WJR WJSV WKBN WHAS WHAC WLBZ WMBD WMBR WNAX WNOX WOC WOKO WORC WPRO WQAM WRVA WREC WSFA WTAQ WWL

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THURSDAY (Continued)

R --- Rudy Vallee's Variety Hour CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KSD KSTP KTAR KYW WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WGY WHO WJAR WLW WMAQ WOW WRC WTAM WTIC WTMJ WWJ

- The March of Time KDKA KECA KERN KFBK KFEL KFSD KGA KGO KJR KLO KMJ KOIL KSO KWG KWK KXYZ WABY WAGA WBAL WBZ WBZA WCKY WCOL WCSC WDSU WEAN WEBR WFIL WHAM WHK WICC WIS WMAL WMPS WMT WJZ WREN WSPD WSYR WXYZ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C - Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 - Major Bowes' Amateurs С

CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBN WKBW WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WMMN WNAC WNAX WOC WOKO WORC WOWO WPG WOAM WREC WSFA WSJS WSPD, WTOC WWL

R — MGM Program

CRCT KDYL KERN KFBK KFI KFYR KGHL KGIR KGNC KGW KMJ KOA KOMO KPO KPRC KSD KSTP KTBS KWG KYW WAPI WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEBC WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WOW WPTF WRC WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

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

R — Bob Burns; Bing Crosby CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTHS KVOO KYW WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

Also on Canadian Network

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

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C — Kate Smith; Jack Miller KFBB KFPY KGVO KIRO KLZ KNX KOIN KOY KSFO KSL KVI KVOR

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C - Boake Carter, see Monday

- ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B -- Lowell Thomas, See Monday C - Lum and Abner, see Monday
- ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C - Jack Fulton, See Monday R - Amos 'n' Andy, See Monday
- ED-7:15 p.m., E-6:15, C-5:15, M-4:15
- R-Uncle Ezra, See Monday
- ED-7:30 p.m., E-6:30, C-5:30, M-4:30 M - Lone Ranger, see Mon.
- ED-7:45 p.m., E-6:45, C-5:45, M-4:45 C - Boake Carter, See Monday
- ED-8:00 p.m., E-7:00, C-6:00, M-5:00 **R** --- Cities Service Concert
- CRCT CFYR KOA KPRC KSD KSTP KTBS KTHS KVOO KYW WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WGY WHO WIBA WIOD WJAR WKY WMAQ WOAI WOW WRC WRVA WSAI WTAG WTAM WTIC WTMJ WWJ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 - Paul Whiteman; Deems Taylor KFAB KFH KGKO KLRA KMBC KMOX KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WFBL WFBM WFEA WGR WGST WHAS WHEC WHIO WHK WHP WIBW WIBX WISN WJAS WJR WJSV WKBN WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WMMN WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WPRO WQAM WREC WSFA WSJS WSPD WTOC WWL

B — Death Valley Days

KDKA KDYL KFI KGW KHO KOII KOMO KPO KSO KWK WBAL WBZ WBZA WFIL WGAR WHAM WJZ WIS WLW WMAL WMT WREN WSYR WXYZ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C - Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 Tim and Irene; G. Olsen В-

KDKA KFEL KLO KOIL KPRC KSO KTAR KTBS KVOO KWK WABY WAVE WBAL WBRC WBZ WBZA WCSC WEAN WEBC WEBR WFAA WFBC WFIL WFLA WHAM WHK WICC WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMAL WMC WMT WOA1 WOWO WPTF WREN WROL WRTD WSB WSM WSMB WSOC WSPD WSUN WSYR WTAR WTCN WWNC WXYZ

C -- Hollywood Hotel

CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMBD WMBG WMAS WMBR WNAC WNAX WNOX WOKO WORC WPG WQAM WREC WSPD WWL

R --- Frank Munn; Abe Lyman KSD KYW WBEN WCAE WCSH WDAF WEAF WEEI WFBR WGY WJAR WLW WMAQ WOW WRC WTAG WTAM WWJ

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

R — True Story Court KSD KYW WBEN WCAE WCSH WEAF WEEI WFBR WGY WHO WHIO WJAR WMAQ WOW WRC WTAG WTAM WTIC WWJ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C -- Alice Cornett: Reed Kennedy KDAL KFAB KFBB KFH KFPY KGKO KGLO KGVO KRLA KLZ KMOX KNOW KNX KOH KOIN KOL KOMA KOY KRLD KRNT KSCJ KSFO KSL KTRH KTSA KTUL KVI KVOR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WEOA WFBL WFBM WGAR WGBI WGST WHAS WHEC WHIO WHP WIBW WIBX WISN WJAS WJNO WJR WJSV WKBB WKBW WKRC WLAC WLBZ WMAS WMBD WMBR WMMN WNBF WNOX WOC WOKO WORC WPAR WPG WPRO WQAM WREC WRVAWSBT WSFA WSJS WTOC WWL

CBC — Canada 1938

CBF CBL CBM CBO CBR CBW CFAC CFCF CFCH CFCN CFCO CFCY CFJC CFNB CFPL CFOC CHAB CHNS CHRC CHSJ CHWK CJAT CJCA CJCB CJIC CJKL CJKL CJOC CKBI CKCK CKCW CKGB CKOV CKOC CKPR CKSO CKX CKY

R - First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WAVE WBEN WCAF WCSH WDAF WDAY WEAF WEBC WEEL WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 M - Lone Ranger, see Mon.

R - Jimmy Fidler

KDYL KFI KGW KHQ KOA KOMO KPO KSD KSTP KYW WBEN WCAE WCSH WDAF WDEL WEAF WFBR WGY WIBA WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WTMJ WWJ

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 R — Dorothy Thompson—News KDYL KFI KGW KHQ KOA KOMO

KPO KSD KSTP KYW WBEN WCAE WCSH WDAF WDEL WEAF WFBR WGY WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

FRIDAY (Continued)

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

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C - Boake Carter, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 **C** -Paul Whiteman; Deems Taylor KFBB KFPY KGAR KGMB KGVO KIRO KLZ KNX KOH KOIN KOY KSFO KSL KVI KVOR

SATURDAY

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C --- Saturday Night Swing Club Available to Columbia Network

ED-7:30 p.m., E-6:30, C-5:30, M-4:30

C — Carborundum Band KFAB KMBC KMOX WABC WBBM WBT WCAO WCAU WCCO WEEI WFBL WGAR WGR WHAS WJAS WJR WKRC WPRO

B --- Uncle Jim's Question Bee KDKA WBZ WBZA WGY WHK WJZ WMAQ

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

C - Johnny Presents Russ Morgan KFAB KFH KMBC KMOX KRNT WABC WADC WBBM WBIG WBNS WBT WCAO WCAU WCCO WCOA WDRC WEEI WFBL WFBM WGR WGST WHAS WHEC WHIO WHK WHP WISN WJAS WJR WJSV WKRC WMBD WMBG WNBF WOC WOKO WPRO WSBT WWVA

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

KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMON KOIN KOL KOMA KRLD KRNT KSL KTRH KTSA KVI KWG WABC WBBM WBNS WBT WCAO WCAU WCCO WDAE WDBO WDRC WEAN WFBL WFBM WJAS WJR WJSV WKBW WKRC WMBR WOKO WQAM WREC WSPD WWL

- National Barn Dance R.

KDKA KOIL KPRC KSO KTBS KTHS KWK WABY WAPI WAVE WBAL WBAP WBZ WBZA WFIL WFLA WHK WHAM WIOD WIRE WIS WJAX WJDX WJZ WKY WLS WMAL WMC WMT WOAI WOOD WPTF WREN WRVA WSB WSMB WSOC WSUN WSYR WTAR WWNC WXYZ

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

Saturday Night Serenade c C - Saturday Night Settinger KFAB KFH KFPY KGKO KLRA KLZ KMBC KMON KNOW KNN KOIN KOL KOMA KRLD KSFO KTRH KTSA KTUL KVI KWKH WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCOA WDAE WDBO WDOD WEEI WFBL WFBM WGAR WGST WHAS WHEC WJAS WJR WJSV WKBW WLAC WMBD WMBR WMMN WNOX WOC WQAM WREC WRVA WSFA WTOC WWL WWVA

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Your Hit Parade

KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KGMB KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMAS WMBG WMBR WNAC WMBD WNAX WNOX WOC WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC WWL WWVA

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

KDYL KFI KFSD KFYR KGHL KGIR KGU KGW KHQ KOA KOMO KPO KSTP KTAR WDAY WEBC WIBA WLW WTMJ

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

C — Johnny Presents Russ Morgan KFBB KFPY KGVO KIRO KLZ KNX KOIN KSFO KSL KVI KVOR

ED-Midn't., E-11:00, C-10:00, M-9:00

C — Professor Quiz KFBB KFPY KIRO KNX KOH KOIN KOY KSFO KSL KVI

SUNDAY

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

C - Major Bowes' "Family"

CFRB KERN KFAB KFBH KFBK KFH KFPY KFRC KGB KGVO KMBC KOH KOL KRLD KSI. KTRH KTSA KVI KVOR KWG KWKH WABC WACO WADC WALA WBNS WBRC WCAO WCCO WDAE WDBJ WDBO WDNC WESG WFBL WFEA WHAS WHK WIBX WJAS WJR WMBR WKRC WLBZ WMBD WMMN WOC WOKO WORC WPG WOAM WSBT WSJS WSPD WTOC

ED-12:30 p.m., E-11:30 a.m., C-10:30, M-9:30

c _ - Salt Lake Tabernacle Choir

CFRB KFAB KFBB KFBK KFH KFPY KFRC KGB KLZ KOH KOL KRLD KSL KTRH KTSA KVI KVOR KWG WABC WACO WADC WALA WBIG WBNS WBRC WCAO WCCO WDAE WDBJ WDBO WESG WFBL WFEA WGR WHAS WICC WJAS WJR WKRC WLBC WMBR WMMN WOC WOKO WORC WQAM WSBT WSJS WSPD WTOC

ED-1:00 p.m., E-Nosn, C-11:00 a.m., M-10:00

C — Church of the Air KFBK KFH KFPY KFRC KGB KHJ KMOX KOH KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KVI KVOR KWG WABC WALA WBNS WBT WCAO WCCO WDAE WDBJ WDBO WDRC WESG WFBL WFBM

WGR WHAS WHP WIBX WJAS WJSV WKBN WKRC WLAC WLBZ WMBR WNBF WOC WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTOC WWVA

ED-2:00 p.m., E-1:00, C-Noon. M-11:00 a.m.

B - Magic Key of RCA

CFCF CRCT KDKA KDYL KFI KFYR KGU KGW KHQ KOA KOIL KOMO KPO KPRC KSO KSTP KTBS KTHS KVOO KWK WAPI WAVE WBAL WBZ WBZA WCKY WDAY WEBC WENR WEAA WEIL WELA WGAR WHAM WIIIO WIBA WIOD WIRE WIS WJAX WJDX WJZ WKY WMAL WMC WMT WOAT WPTF WREN WRVA WSB WSM WSMB WSOC WSYR WTAR WTMJ WWNC WXYZ

ED-3:00 p.m., E-2:00, C-1:00, M-Noon R - The Radio News Reel

KSD KSTP KYW WBEN WCAE WCSH WDAF WDEL WEAF WFBR WGY WHO WIRE WJAR WMAQ WNAC WOW WRC WSAI WTAG WTAM WTIC WWJ

ED-3:30 p.m., E-2:30, C-1:30, M-12:30 **B** — Smiling Ed McConnell

KDEA KEYR KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WENR WFIL WHAM WHK WICC WJZ WMAL WMT WSPD WSYR WTCN WXYZ WREN

ED-4:30 p.m., E-3:30, C-2:30, M-1:30 R - The World Is Yours; Drama Available to Red Network

ED-5:00 p.m., E-4:00, C-3:00, M-2:00 R - Marion Talley

KDYL KFI KGW KHQ KOA KOMO KPO KSTP KYW WBEN WCAE WCOL WCSH WDAF WDEL WEAF WEBC WFBR WGY WHO WIBA WIRE WJAR WMAQ WNAC WOOD WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ

ED-5:30 p.m., E-4:30, C-3:30, M-2:30 C - Guy Lombardo and Orchestra KFH KMBC KMOX KOMA KTUL WAAB WABC WBNS WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WHEC WHK WIBX WICC WJR WJSV WMAS WOKO WORC WSPD WWVA

R --- Mickey Mouse Theater KANS KDYL KFI KGNC KGW KHO KOA KOMO KPO KPRC KSD KSTP KVOO KYW WAVE WBAP WBEN WBRC WCAE WCSH WDAF WDEL WEAF WFBC WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WOW WPTF WRC WSB WSM WSMB WSUN WTAG WTAM WTAR WTIC WTMJ WWJ

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C - Joe Penner; Gene Austin KFAB KFPY KGLO KLZ KMBC KMON KNOW KNN KOIN KOL KOMA KRLD KRNT KSFO KSI

SUNDAY (Continued)

KTRH KTSA KVI WABC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBO WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WJAS WJR WJSV WKBW WKRC WOKO WORC WPRO WQAM WREC WRVA

M — George Jessel; Tommy Tucker To entire MBS and Michigan Networks

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 $R \rightarrow A$ Tale of Today WBEN WEAF WGY WJAR WMAQ WOW WRC WTAM

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 R — Jack Benny; Mary Livingstone KSD KYA KYW WBEN WCAE WCSH WDAF WEAF WFHR WGY WHO WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

Also on Canadian Network

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C — Phil Baker; Oscar Bradley

KLRA KLZ KRLD KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBIG WDNS WBRC WBT WCAO WCAU WCOA WDAE WDBJ WDBO WDNC WDDD WDRC WEAN WFBL WFBM WFEA WGR WGS WIAS WHEW WIN WIBX WICC WJAS WJR WJSV WKBN WKRC WLAC WLBZ WMAS WMBR WNAC WNOX WOKO WORC WQAM WRAC WSBT WSFA WSJS WSMK WSPD WTOC WWL WWVA

B — Ozzle Nelson; Harriet Hilliard KARK KDKA KECA KFEL KEX KFSD KFYR KGA KGO KJR KLO KOLL KPRC KSO KSTP KTAR KTRS KTIS KVOO KWK WABY WAPI WAVE WHAL WBAP WBZ WBZA WCKY WCOL WDAY WEAN WERG WEBR WFIL WFLA WHAN WHK WIBA WICC WIOD WIS WJAX WJDX WJZ WKY WLEU WLS WMAL WMC WMT WOAI WSPTF WREN WRTD WSB WSM WSMB WSOC WSUN WSYR WTAR WTMJ WMC WXYZ

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R — Don Ameche: Edgar Bergen CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSCP KTAR KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFDR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WNAC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC Also on Canadian Network

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

CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KLRA KLZ KMBC KMJ KLRA KUZ KMBC KRT KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWRH WABC WACO WADA WBBM WFIG WBNS WBRC WTA WCAO WCAU WCCO WCOA WDAE WDHJ WDBO WDCC WDD WDAJ WDSV WKBN WKFA WJAS WJBX WJSV WKBN WKRC WLAC WLBZ WMAS WMBN WHCC WIA WLBZ WKAS WSFA WSJS WSPD WTOC WWL WWVA

B — Tyrone Power; Drama KDKA KECA KFSD KGA KGHL EGIR KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WEBC WEBR WENR WFIL WGAR WHAM WICC WJZ WLW WMAL WMT WREN WSYR WXYZ

R — Manhattan Merry-Go-Round CFCF KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WAVE WHEN WCAE WCKY WCSH WDAF WDAY WEAF WEHC WEEL WFAA WFDR WFLA WGY WHO WIBA WIOD WIRE WIS WJAX WJDX WKY WMAQ WMC WOAI WOW WTTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-9:30 p.m., E-8:38, C-7:30, M-6:30 R — Album of Familiar Music CFCF CRCT KDYL KFI KFYR

GFGF CRCT KDYL KFI KFYR GGW KHQ KOA KOMO KFO KFRC KSD KSTP KTBS KYW WAPI WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEEC WEEI WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WALAQ WMC WOAI WOW WFTF WRC WRAA WSAI WSB WSM WSMB WSOC WTAG WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell

KDKA KECA KEX KFSD KGA KGHL KGIR KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WENR WFIL WGAR WHAM WJZ WLW WMAL WMT WREN WSYR WXYZ

ED-9:45 p.m., E-8:45, C-7:45, M-6:45 B -- Irene Rich, Drama

KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WENR WFIL WHAM WHK WICC WJZ WMAL WMT WREN WSPD WSYR WTCN WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R — Phil Spitalny Orch. KDYL KFI KGBX KGW KHQ KOA

KDYL KFI KGBX KGW KHQ KOA KPO KPRC K\$D K\$TP KTAR KTBS KTHS KYW WAVE WBAP WBEN WCAE WCSH WDAF WEAF WFBR WFLA WGY WILO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WMAQ WMC WNAC WOAI WOOD WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 B — Tyrone Power; Drama KARK KPRC KTBS WAPI WAVE WBAP WJDX WKY WMC WOAI WSB WSM WSMB

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B - Irene Rich, Drama

KECA KERN KEX KFBK KFSD KGA KGO KJR KLO KMJ KVOD KWG WAPI WAVE WJDX WMC WSB-WSM WSMB

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

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

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 R — Jack Benny-Mary Livingstone KDYL KERN KFBK KFI KFSD KGHL KGIR KGU KGW .KHQ KIDO KMJ KOA KOMO KPO KTAR KWG

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight

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

COMEDY

Fred Allen, 9:00 p.m. Wed., Red Phil Baker, 7:30 p.m. Sun., CBS Jack Benny-Mary Livingstone, 7 and 11:30 p.m. Sun., Red Edgar Bergen-Charlle McCarthy, 8 p.m. Sun., Red Fannie Brice, 9 p.m. Thurs., Red Bob Burns, 10:00 p.m. Thurs., Red Burns and Allen, 8 and 10:30 p.m., Mon., CBS Arlene Harris, 9 and 12 p.m. Tues., CBS George Jessel, 6:00 p.m. Sun., MBS Al Joison, 8:30 and 11:30 p.m. Tues., CBS Lew Lehr, 8:30 and 11:30 p.m. Wed., CBS Parkyakarkus, 8:30 and 11:30 p.m. Tues., CBS Al Pearce, 9 and 12 p.m. Tues., CBS Joe Penner, 6:00 p.m. Sun., CBS Joe Rines, 5:30 p.m. Sun., Red

CONCERTS

Frank Black, 2:00 p.m. Sun., Blue Ford Sunday Evening Hour, 9:00 p.m. Sun., CBS Andre Kostelanetz, 9:00 p.m. Wed., CBS

DANCE BANDS

Robert Armbruster, 8:00 p.m. Sun., Red Ben Bernie, 8:30 and 11:30 p.m. Wed., CBS Oscar Bradley, 7:30 p.m. Sun., CBS Don Donnie, 9 p.m. Sun., Red Tommy Dorsey, 8:30 p.m. Wed., Red Edgar Fairchild, 7:30 and 10:30 p.m. Mon., CBS Jan Garber, 8 and 10:30 p.m. Mon., Red Al Goodman, 10:00 p.m. Sat., CBS Benny Goodman, 9:30 p.m. Tues., CBS Gustav Haenschen, 9:30 p.m. Sun., Red; 10:00 p.m. Fri., CBS Phil Harris, 7 and 11:30 p.m. Sun., Red Horace Heldt, 9:00 p.m. Tues., Blue Horace Heidt, 9300 p.m. Tues., Bide Richard Himber, 8 p.m. Mon., CBS Carl Hoff, 9 and 12 p.m. Tues., CBS Carl Hohengarten, 7 and 11 p.m. Mon. thru Fri., CBS Hal Kemp, 10 p.m. Tues., CBS Wayne King, 8:30 p.m. Tues., Red: 10 p.m. Mon., CBS Benny Kreuger, 8:30 p.m. Mon., CBS Kay Kyser, 10 p.m. Wed., Red Guy Lombardo, 5:30 p.m. Sun., CBS Abe Lyman, 9:00 p.m. Fri. Red Frankie Masters, 10:30 p.m. Wed., CBS Jack Miller, 8 and 11:15 p.m. Thurs., CBS Billy Mills, 9:30 p.m. Tues., Red Russ Morgan, 8:30 and 11:30 p.m. Sat., CBS; 8:00 p.m. Tues. Red Ozzie Nelson, 7:30 p.m. Sun., Blue George Olsen, 9 p.m. Fri., Blue Raymond Paige, 9:00 p.m. Frt., CBS Ben Pollack, 6 and 11 p.m. Sun., CBS B. A. Rolfe, 10 p.m. Tues., Red Seymour Simons, 6:30 p.m. Sun., CBS Harry Sosnik, 9 and 10:30 p.m. Sun., Blue Phil Spitalny, 10 p.m. Sun., Red Johnny Trotter, 10:00 p.m. Thurs., Red Tommy Tucker, 6:00 p.m. Sun., MBS Rudy Vallee, 8:00 p.m. Thurs., Red Peter Van Steeden, 9:00 p.m. Mon., Red Don Voorhees, 8:00 p.m. Wed., CBS Mark Warnow, 7:30 and 10:30 p.m. Thurs., CBS Paul Whiteman, 8:30 and 11:30 Frl., CBS Meredith Willson, 9:00 p.m. Thurs., Red Victor Young, 8:30 and 11:30 p.m. Tues., CBS

DIALOG

Amos 'n' Andy, 7:00 and 11:00 p.m. Mon. through Fri., Red

Easy Aces, 7:00 p.m. Tues., Wed., Thurs., Blue Fibber McGee and Molly, 9:30 p.m. Tues., Red Lum and Abner, 6:45 p.m. Mon., Wed., Fri., CBS Ken Murray, 9 p.m. Fri., CBS Pick and Pat, 8:30 and 11:30 p.m. Mon., CBS Stroud Twins, 8:00 p.m. Sun., Red Tim and Irene, 9 p.m. Fri., Blue

DRAMA

Don Ameche, 8 p.m. Sun., Red Campana's First Nighter, 10:00 p.m. Frl., Red Campara's First Nighter, 1000 plan 11 Death Valley Days, 8:30 p.m. Fri, Blue Gang Busters, 10:00 p.m. Wed., CBS Eddie Guest, 10:30 p.m. Wed., CBS Hollywood Hotel, 9:00 p.m. Fri., CBS Hollywood Playhouse, 9:00 and 11:30 p.m. Sun., Blue Lone Ranger, 7:30 and 10:30 p.m. Mon., Wed., Fri., MBS Lux Radio Theater, 9:00 p.m. Mon., CBS Helen Menken, 7:30 p.m. Tues., CBS One Man's Family, 8:00 p.m. Wed., Red Tyrone Power, 9:00 and 10:00 p.m. Sun., Blue Irene Rich, 9:45 and II:00 p.m. Sun., Blue Edward G. Robinson, 8:00 p.m. Tues., CBS A Tale of Today, 6:30 p.m. Sun., Red Those We Love, 8:30 p.m. Mon., Blue Claire Trevor, 8:00 p.m. Tues., CBS We, The People, 7:30 and 10:30 p.m. Thurs., CBS

POPULAR PROGRAMS

American Album of Familiar Music, 9:30 p.m. Sun., Red Belleve It Or Not, 10 p.m. Tues., Red Major Bowes' Amateurs, 9:00 p.m. Thurs., CBS Major Bowes' Family, 11:30 a.m. Sun., CBS Carborundum Band, 7:30 p.m. Sat., CBS Cavalcade of America, 8:00 p.m. Wed., CBS Chase and Sanborn Hour, 8:00 p.m. Sun., Red Cities Service Concert, 8:00 p.m. Fri , Red Contented Program, 10:00 p.m. Mon., Red Death Valley Days, 8:30 p.m. Fri., Blue Gang Busters, 10:00 p.m. Wed., CBS Jack Haley's Variety Show, 8:30 p.m. Sat., Red Hour of Charm, 10 p.m. Sun., Red How To Win Friends and Influence People, 10:45 p.m. Tues., Red It Can Be Done, 10:30 p.m. Wed., CBS Jello Program, 7:00 and 11:30 p.m. Sun., Red Johnny Presents-, 8:00 p.m. 'Tues., Red: 8:30 and 11:30 p.m. Sat., CBS Just Entertainment, 7 and 11 p.m. Mon. thru Fri., CBS Kraft Music Hall, 10:00 p.m. Thurs., Red Magic Key of RCA, 2:00 p.m. Sun., Blue Manhattan Merry-Go-Round, 9:00 p.m., Sun., Red March of Time, 8:00 p.m. Thurs., Blue MGM Program, 9:00 p.m. Thurs., Red Mickey Mouse Theater, 5:30 p.m. Sun., Red National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue Professor Quiz, 9:00 and 12:00 p.m. Sat., CBS Radio News Reel, 3:00 p.m. Sun., Red Royal Crown Revue, 9 p.m. Fri., Blue Salt Lake City Tabernacle, 12:30 p.m. Sun., CBS Saturday Night Serenade, 9:30 p.m. Sat., CBS Saturday Night Swing Club, 7:00 p.m. Sat., CBS Kate Smith Hour, 8:00 and 11:15 p.m. Thurs., CBS Songshop, 10:00 p.m. Fri., CBS Station E-Z-R-A, 7:15 p.m. Mon., Wed., Fri., Red Swing School, 10:00 p.m. Tues., CBS Time To Shine, 10 p.m. Tues., CBS Town Hall Tonight, 9:00 p.m. Wed., Red True Story Court, 9:30 p.m. Fri., Red Uncle Jim's Question Bee, 7:30 p.m. Sat., Blue Vick's Open House, 7:00 p.m. Sun., CBS Voice of Firestone, 8:30 p.m. Mon., Red Vox Pop, 9:00 p.m. Tues., Red Waltz Time, 9:00 p.m. Fri., Red Watch the Fun go By, 9:00 and 12:00 p.m. Tues., CBS We, The People, 7:30 p.m. Thurs., CBS Your Hit Parade, 10:00 p.m. Sat., CBS You Said It 8 p.m. Mon., CBS

SINGERS

Stuart Allen, 10:00 p.m. Sat., CBS Andrew Sisters, 7 and 11 p.m., Mon. thru Fri., CBS Gene Austin, 6:00 p.m. Sun., CBS Kenny Baker, 7:00 and 11:30 p.m. Sun., Red Henry Burr, 9:00 and 11:00 p.m. Sat., Blue Rachel Carlay, 9:00 p.m. Sun., Red John Carter, 8 p.m. Sun., Red Buddy Clark, 8:30 and 11:30 p.m. Wed., CBS Alice Cornett, 10:00 p.m. Fri., CBS Richard Crooks, 8:30 p.m. Mon., Red Bing Crosby, 10:00 p.m. Thurs., Red Jean Dickenson, 9:30 p.m. Sun., Red Deanna Durbin, 7:30 and 10:30 p.m. Mon., CBS Mary Eastman, 9:30 p.m. Sat., CBS Jack Fulton, 7:00 and 11:00 p.m. Mon. through Fri. CBS Paula Gavie, 6 and 11 p.m. Sun., CBS Fredda Gibson, 10:00 p.m. Sat., CBS; 9 p.m. Fri., Blue Harriet Hilliard, 7:30 p.m. Sun., Blue Al Jolson, 8:30 and 11:30 p.m. Jule Al Jolson, 8:30 and 11:30 p.m. Tues., CBS Alan Jones, 9 p.m. Thurs., Red Reed Kennedy, 10:00 p.m. Fri., CBS Dorothy Lamour, 8:00 p.m. Sun., Red Frances Langford, 9:00 p.m. Frl., CBS Pierre Le Kreeun, 9:00 p.m. Sun., Red Lullaby Lady, 10:00 p.m. Mon., Red Lulu Belle, 9:00 and 11:00 p.m. Sat., Blue

Lucille Manners, 8 p.m. Fri., Red Smilling Ed McConnell, 3:30 p.m. Sun., Blue Tony Martin, 8:00 and 10:30 p.m. Mon., Red Frank Munn, 9:30 p.m. Sun., Red; 9:00 p.m. Fri., Red Frank Parker, 9 p.m. Fri., CBS Jane Pickens, 8:30 and 11:30 p.m. Wed., CBS Martha Raye, 8:30 and 11:30 p.m. Tues., CBS Kate Smith, 8:00 and 11:15 p.m. Thurs., CBS Margaret Speaks, 8:30 p.m. Mon., Red Marion Talley, 5:00 p.m. Sun Red Kay Thompson, 8 p.m. Mon., CBS

TALKS

Dale Carnegie, 10:45 p.m. Tues., Red Boake Carter, 5:30 and 8:45 p.m. daily, CBS

Jimmy Fidler, 10:30 p.m. Tues., Fri., Red Gabriel Heatter, 7:30 and 10:30 p.m. Thurs., CBS

John B. Kennedy, 8:00 p.m. Sun., Blue

Geo. McCall, 7:15 and 11:15 p.m. Tues., Thurs., CBS Robert L. Ripley, 10 p.m. Wed., Blue Robert L. Ripley, 10 p.m. Tues., Red Deems Taylor, 9:00 p.m. Wed., CBS; 8:30 and 11:30

p.m. Fri., CBS

Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue Dorothy Thompson, 10:45 p.m. Fri., Red; 7:30 p.m.

Tues., Blue

Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

Stamp Column

(Continued from page 36)

1200 and shows a healthy growth with each month. A printed, illustrated magazine, "Sunny Days" is issued quarterly containing regular departments on world-radio, stamp and cover collecting, motion pictures, post cards and match labels, as well as general hobby articles. Each September, a Year Book is published, reviewing the year's activities and containing a complete listing of the club membership arranged by country.

Membership is only \$1.00 per year which includes membership card and club number and subscription to the club magazine. For further information, membership enrollment blanks and prospectus', please send a stamped, addressed return envelope to David Brockton Browne, Stamp Editor, 550 E. Glenarm St., Pasadena, Calif., and details will be sent immediately without obligation.

If there are any questions about stamp and cover collecting or suggestions or opinions concerning this column, won't you write the Stamp Editor a few lines? Remember this is YOUR column and we shall always be glad to be of service to our readers wherever possible. Cheerio and Good Luck!

Month's Changes

	(Contin	nued from page 44)
1260	CMBD	Havana, Cuba, to 5000
1310	KINY	Juneau, T. A., to 250
1350	CMCA	Havana, Cuba, to 5000
1350	WAWZ	Zarephath, N. J., to 1000
1420	KABR	Aberdeen, S. Dak., to 500
		(1)
1430	WBNS	Columbus, O., to 1000 (5)
1450	WGAR	Cleveland, O., to 1000 (5)
	Permit	to Change Location
570	KGKO	Wichita Falls, Tex., to
0.0		Ft. Worth
1500	WKBB	E. Dubuque, Ill., to
		Dubuque, Iowa.

KGKO Moves

C TATION KGKO, authorized by the FCC to move from Wichita Falls to Fort Worth, made the move on May 1st without losing a minute of broadcast time.

This station, situated in Wichita Falls for ten years, signed off on April 30. It is expected, however, that KGKO will continue to serve the Wichita Falls area from its new location. It transmits on 570 kes with 1000 watts night and 5000 watts days.

Sharon Gets Station

The Sharon Herald Broadcasting Co. of Sharon, Pa., has been granted a construction permit for a new station to employ 780 kcs with 250 watts, daytime only.

The application of Allen Simmons, owner of WADC at Akron, Ohio, for a new station for Mansfield, Ohio, was refused at the same time, the FCC deciding that Sharon is in more need of a new station than the Ohio city.

NBC Adds

WMFF, on 1310 kcs in Plattsburg, N. Y., was added to the Blue Network of the National Broadcasting Co.

KEY TO SYMBOLS

National "Red" network.

Has permit to increase

Has permit to change lo-

Has permit to change fre-

using same transmitter.

a-b-c. Small letters show stations

1-2-3. Figures denote stations

sharing time.

Sunday only.

Synchronized.

power.

cation

quency.

.... No information.

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts in third requency is given in knowscies, wave engine in interes. Tright power is shown in wates in third column. Daytime power is shown in parentheses in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols

- Verifies reception for return а postage.
- Verifies only occasionally. h
- Does not verify. с
- Verification 10c; letter 25c. d h Sends own station stamp
- for 10c. Sends own station stamp for 5c.
- Sends own station stamp
- for postage. Has no stamps. Verifies for 5c. k

- Weather or time only.
- No information available.

Fourth Column Symbols National "Blue" network. Columbia network. В

- Day time only. D

n

- Day time with occasional evening hours. Canadian Brdcstg. Corp. Dn
- F
- м
- Mutual Brdestg. Sys. National "Red" and "Blue" networks. N
- Has construction permit only. Ρ

The sign-on and sign-off time of stations is shown in Eastern Standard Time. "ss" means "sunset."

R

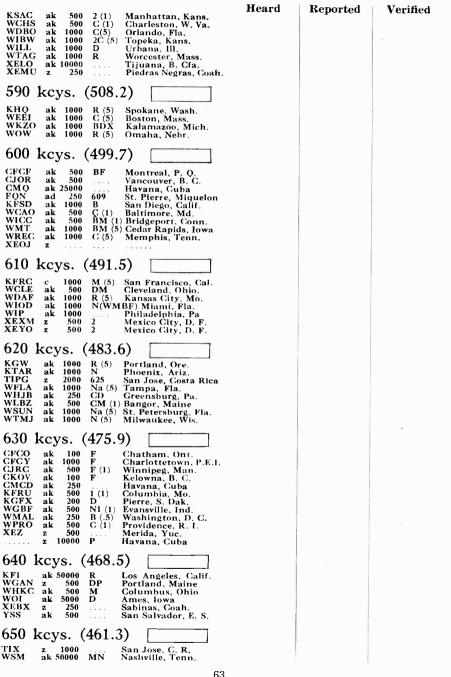
S

Šv X

Y

7

Verified Heard Reported 540 kcys. (555.2) CJRM ak 1000 F Regina. Sask. 400 Nassau, Bahamas ZNS ak 550 kcys. (545.1) Fredericton, N. B. CFNB 500 F(1) ak St. Louis. Mo. Bismarck, N. Dak. **KFUO** 500 2 (1) N (5) ak 1000 KFYR N (5) Bismarca, ... Corvallis, Ore. 2R (5) St. Louis, Mo. ak KOAC ak 1000 KŠD ak 1000 San Antonio, T Waterbury, Vt. Buffalo, N. Y. KTSA 1000 C (5) ak WDEV ak 500 D Č (5) C (5) 1000 WGR ak Cincinnati, Ohio 1000 WKRC ak WSVA 500 D Harrisonburg .Va. ak XEFC ak 100 Merida, Yuc. 560 kcys. (535.4) KFDM ak 500 (1) N Beaumont, Texas C (5) C (5) KLZ ak 1000 Denver, Colo. KSFO 1000 San Francisco, Cal. ak Springfield, Mo. KWTO 5000 Ð ak WFIL ak 1000 BM Philadelphia, Pa. Gary, Ind. Columbia, S. C. WIND ak 1000 (5)N (5) WIS 1000 ak WOAM ak 1000 č Miami, Fla. 570 kcys. (526.0) CMCY aik 5000 X Havana, Guba NXY(1) Wichita Falls, Tex. KGKO ak 250 Los Angeles, Calif. KMTR ak 1000 KMIK WKBN WMCA WNAX 1 0 0 0 C (5) Tacoma, Wash. ak čì Youngstown, Ohio New York, N. Y. Yankton, S. Dak. 500 ak 1000 ak C (5) Yankton, S. Dak, 1 (1) Columbus, Ohio B (WSYU) Syracuse, N. Y. ak 1000 WOSU ak 750 1000 WSYR ak WWNC 1000 Ñ Asheville, N. C. ak 580 kcys. (516.9) CFPR 50 Prince Rupert, B. C. ak CHRC ak 100 Quebec, P. Q. 100 F Toronto, Ont CKCL ak CKUA ak 500 Ē Edmonton, Alta. N 1000 KMJ ak Fresno, Calif. 62



	Heard	Reported	Verified
660 kcys. (454.3)			
WAAWak500DOmaha, Nebr.WEAFak50000RNew York, N. Y.XEALz1000Mexico City, D. F.XEAOak250Mexicali, B. Cfa.			
670 kcys. (447.5)			
WMAQ ak 50000 R Chicago, III.			
680 kcys. (440.9)			
CMBQz5000PHavana, CubaCMCGak1000Havana, CubaKFEQak2500DSt. Joseph, Mo.KPOak50000RSan Francisco, Cal.VASakn 2000685Glace Bay, N. S.VOWRck500681St. John's, Nfld.WLAWak1000DLawrence, Mass.WPTFak5000NRaleigh, N. C.			
690 kcys. (434.5)			
CFRB ak 10000 C Toronto, Ont. CJCJ ak 100 F Calgary, Alta. XET ak 5000 Monterrey, N. L.			
700 kcys. (428.3) WLW ak 500000 MN (W8X0) Cincinnati, O.			
710 kcys. (422.3)			
KIRO ak 1000 C Seattle, Wash. KMPC ak 500 Beverly Hills, Calif. WOR ak 50000 M Newark, N. J.			
720 kcys. (416.4)			
CMK ak 3000 Havana, Cuba WGN ak 50000 M Chicago, III. XEH ak 250 Monterrey, N. L.			
730 kcys. (410.7)			
CFPLak100FLondon, Ont.CJCAak1000FEdmonton, Alta.CKACak5000CMontreal, P. O.CKPRak100FFort William, Ont.CMCLz10000PHavana, CubaXEPNak10000Piedras Negras, Coah.XERBak10000Rosarito Bch., B. Cfa.			
740 kcys. (405.2)			
KMMJ ak1000DClay Center, Nebr.KTRB ak250DModesto, Calif.WHEB ak250DPortsmouth. N. H.WSBak50000RAtlanta, Ga.			
750 kcys. (399.8)			
CMBL z 2500 Havana, Cuba KGU aj 2500 N Honolulu, Hawaii WJR ak 50000 C Detroit, Micla. XEAA ak 200 Mexicali, B. Cfa. XEAM z 25 Matamoros, Tams.			
760 kcys. (394.5) CMHX ak 200 Cienfuegos. Cuba			

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(.5)X Seattle, Wash. BMSy Baltimore, Md. D St. Louis, Mo. BSy New York, N. Y. Tijuana, B. Cfa. KXA ak 250 ak 2500 WBAL WEW WJZ ak 1000 ak 50000 XEOK ak 2500 770 kcys. (389.4) CMBF z 10000 KFAB ak 10000 WBBM ak 50000 Havana, Cuba CSy Lincoln, Nebr. Chicago, 111. CSy 780 kcys. (384.4) CHWK CKSO CMJK 100 dk F Chilliwack, B. C. F ak 1000 Sudbury, Ont. ak 250 Camaguey, Cuba KEHE KFDY KFQD KGHL (5) D Los Angeles, Calif. Brookings, S. Dak. ak 1000 ak 1000 ck 250 Anchorage, Alaska Billings, Mont. N (5) DP 1000 ak KGHL KWLK WEAN WMC WTAR N (5) Billings, Mont. DP Longview, Wash. BM (5) Providence, R. I. R (5) Memphis, Tenn. N Norfolk, Va. Mexico City, D. F. 250 Z 1000 āk 1000 ak ak 1000 XEN ak 1000 790 kcys. (379.5) CMGH ak 500 B ... Matanzas, Cuba KGO ak 7500 KOAM z 1000 WGY ak 50000 San Francisco, Cal. Pittsburg, Kans. Schenectady, N. Y. ĎN R 800 kcys. (374.8) HIX WBAP Trujillo, D. R. Fort Worth, Texas Dallas, Texas ak 800 ak 50000 Na WFAA ak WTBO ak Na ak 50000 250 D Cumberland, Md. 810 kcys. (370.2) CMCF ak 600 х Havana, Cuba WCCO WNYC XEBZ XEDF Minneapolis, Minn. New York, N. Y. Mexico City, D. F. Nuevo Laredo, Tams. ak 50000 CD 1000 ak 100 ad 100 7. 820 kcys. (365.6) ċ... 100 Santa Clara, Cuba Louisville, Ky. CMHW ak WHAS ak 50000 Tijuana, B. Cfa. XEBG z 1000 830 kcys. (361.2) 500 CMJX Camaguey, Cuba ak Ŕ ak 50000 KOA WEEU Denver, Colo. Reading, Pa. Boston, Mass. Gainsville, Fla. ak 1000 ñ WHDH ak 1000 Dn WRUE ak 5000 Dn 840 kcys. (356.9) ak 50000 CBL F Toronto, Ont. ČFÕC VOGY ak 1000 Ē Saskatoon, Sask. St. John's, Nfld. ak 400 XERA ck 250000 Villa Acuna, Coah. 850 kcys. (352.7) CMCM ak Havana, Cuba 250 Ď KIEV ak 250 WESG ak 1000 Glendale, Calif. Elmira, N. Y. CD

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WKAR ak 1000 D E. Lansing, Mich,	Heard	Reported	Verified
WWL ak 10000 CX New Orleans, La.			
860 kcys. (348.6)			
WABC ak 50000 C (WBOQ) New York, N. Y. WHB ak 1000 DM Kansas City, Mo. XEMO ak 5000 Tijuana, B. Cfa, XENC z 50 Mexico City, D. F.			
870 kcys. (344.6)			
WENR ak 50000 Ba Chicago. Ill. WLS ak 50000 Ba Chicago, Ill. XEFB ak 200 Monterrey. N. L. XEJW z 500 Mexico City, D. F.			
880 kcys. (340.7)			
CBO ak 1000 F Ottawa, Ont. CFJC ak 1000 F Kamloops, B. C. CMW ak 1400 X Havana, Cuba KFKA ak 500 2M (1) Greeley, Colo. KLX ak 1000 Oakland, Calif. KPOF ak 1000 2 Denver, Colo. TIEP ak 1000 San Jose, Costa Rica WCOC ak 500 CX (1) Meridian, Miss. WGBI ak 500 C1 (1) Scranton, Pa. WQAN ak 500 1 (1) Scranton, Pa. WQAL ak 500 D Richmond, Va. WSUI ak 500 (1) Iowa City, Iowa			
890 kcys. (336.9)			
KARKak500N (1)Little Rock, Ark.KFNFak5002 (1)XShenandoah, IowaKFPYak1000C (5)Spokane, Wash.KUSDak5002Vermillion. S. Dak.WBAAak500(1)W. Lafayette, Ind.WGSTak1000C (5)Atlanta, Ga.WJARak1000C (5)Providence, R. I.WMMNak500C (1)XFairmont, W. Va.XEKak100Mexico City, D. F.XEWak50000Mexico City. D. F.			
900 kcys. (333.1)			
KGBUak500XKetchikan, AlaskaKHJak1000M (5)Los Angeles, Calif,KSEIak250(1)NPocatello, IdahoWBENak1000R (5)Buffalo, N. Y.WELIak500DNew Haven, Conn.WFMDak500DFrederick, Md.WJAXak1000N (5)Jacksonville, Fla.WKYak1000N (5)Oklahoma City, Ok.WLBLak5000DStevens Point, Wis.WTADak1000DQuincy, Ill.			
910 kcys. (329.6)			
CBF ak 50000 FN Montreal, P. Q. CKY ak 15000 F Winnipeg, Man. CJAT ak 1000 F Trail, B. C. XENT ak 150000 Nuevo Laredo, Tams.			
920 kcys. (325.9)			
CMX ak 1000 X Havana, Cuba KFEL ak 500 Ma Denver, Colo. KOMO ak 1000 R (5) Seattle, Wash. KPRC ak 1000 R (5) Houston, Texas KVOD ak 500 Ba Denver, Colo. WAAF ak 1000 D Chicago, Ill. WORL ak 500 D Boston, Mass. WPEN ak 1000 2 Philadelphia, Pa.			

WRAX ak 1000 2 Philadelph		Heard	Reported	Verified
WRAX ak 1000 2 Philadelph WSPA ak 1000 D Spartanbu WWJ ak 5000 R Detroit, M	rg, S. C.			
930 kcys. (322.4)				
CFAC ak 1000 F Calgary, A CFCH ak 100 F North Bay CFLC ak 100 F Prescott, C CHNS ak 1000 F Halifax, N. CKPC ak 1000 F Brantford, KMA ak 1000 (5) Shenandoa KROW ak 1000 (5) Shenandoa WBRC ak 1000 R(5) Birnningha WDBJ ak 1000 C (5) Roanoke, N XEBH ak 500 Hermosille	, Ont. Ont. S. Ont. .h, Iowa Jalif. .m, Ala. Va.			
940 kcys. (319.0)				
KOINak1000C (5)Portland, (VOASak100	, Nfid. 7, N. J. Ky. Maine Dak. Vis. , Ohio			
950 kcys. (315.6)				
CJOC ak 100 F Lethbridge CMBC z 10000 - Havana, C CRCK ak 1000 F Quebec. P KFWB ak 1000 (5) Hollywood KMBC ak 1000 (5) Kansas Ci WHAL z 500 DP Saginaw, M WRC ak 1000 R (5) Washingte	uba . Q. , Calif. ty, Mo. Mich.			
960 kcys. (312.3)				
CFRN ak 100 F Edmonton CHNC ak 1000 F New Carlis CMKS z Guantana CRCY ck 100 F Toronto, C XEAW c 100000 Reynosa, T	ile, P. Q. mo, Cuba			
970 kcys. (309.1)				
CMBY z 150 Havana, C KJR ak 5000 B Seattle, W WCFL ak 5000 N Chicago, I WIBG ak 100 D Glenside,	11.			
980 kcys. (306.0)				
KDKA bk.50000 B Pittsburg XEAC ak 1000 Tijuana, I XEFE z 250 z Nuevo Lar				
990 kcys. (302.8)				
CMKL z Bayamo, G WBZ ak 50000 BSy Boston, M WBZA ak 1000 BSy Springfiel XEAF ak 750 Nogales, S XES ak 250 Tampico,	ass. 1, Mass. on.			
1000 kcys. (299.8)				
CMBZ ak 500 (1) X Havana, C KFVD ak 1000 Dn Los Angel VOCM z 200 1006 St. John's	es, Calif.			

WHO XEBI	ak 50000 ak 25	R	Des Moines, Iowa Aguascalientes, Ags.	Heard	Reported	Verified	
1010	kcys.	(296	.9)				
CHML CKCD CKCK CKCC CKUC CKWX CMJA KCGF KQW WHN WNAD WNAD XXEFQ XEU	ak 100 ak 100 ak 1000 ak 100 ak 50 ak 100 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 50 ak 50 ak 250	F 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.				
1020	kcys.	(293	.9)				
K Y W WDZ XEJ	ak 10000 ak 250 ak 1000	R D	Philadelphia, Pa. Tuscola, Ill. Juarez, Chih.				
1030	kcys.	(291	.1)				
CFCN CJBR CKLW CMCK XEB	ak 10000 z 1000 ak 5000 ak 5000 ak 10000	F F M	Calgary, Alta. Rimouski, P. Q. Windsor, Ont. Havana, Cuba Mexico City, D. F.				
1040	kcys.	(288	.3)				
KRLD KWJJ KYOS WTIC	ak 10000 ak 500 bk 250 ah 50000	C D R	Dallas, Texas Portland, Ore. Merced, Calif. Hartford, Conn.				
1050	kcys.	(285	.5)				
CBM CMKD HIT KFBI KNX WEAU WGVA	ak 5000 ak 250 z 50 ak 5000 ak 50000 z 1000 z 1000	F Dn C D DP	Montreal, P. Q. Santiago, Cuba Trujillo, D. R. Abilene, Kans, Los Angeles, Calif, Eau Claire, Wis, Indianapolis, Ind.				
1060	kcys.	(282	.8)				
KTHS VOAC WBAL WJAG W3XJ	ak 10000 z 40 ak 10000 ak 1000 z 100	N 1065 BM D P	Hot Springs, Ark. St. John's, Nfld. Baltimore, Md. Norfolk, Nebr. College Park, Md.				
1070	kcys.	(280	.2)				
CMBX CMHA KJBS WCAZ WTAM	ak 500 z 50 ak 500 ak 100 ak 50000	D R	Havana, Cuba Sagua la Grande, Cuba San Francisco, Calif. Carthage, III. Cleveland, Ohio				
1080	kcys.	(277	.6)				
CMJQ WBT WCBD WMBI XEBA XEBK XEDP	z 200 ak 50000 ak 5000 ak 5000 z 20 ak 100 ak 500	C Dnl Dnl	Camaguey, Cuba Charlotte, N. C. Chicago, III. Chicago, III. Guzman, Jal. Nuevo Laredo, Tams. Mexico City, D. F.				

1090	kcys.	(275.1)
кмох	ak 50000	C St. Louis, Mo.
1100	kcys.	(272.6)
CBR KGDM KWKH WBIL WPG XEL	ak 5000 ak 1000 ak 10000 ak 5000 ak 5000 z 250	F Vancouver, B. C. DM Stockton, Calif. C Shreveport, La. 1 New York, N. Y. C1 Atlantic Gity, N. J. Mexico City, D. F.
1110	kcys.	(270.1)
CMCJ KSOO WRVA	ak 500 ak 2500 ak 5000	X Havana, Cuba DnNX Sioux Falls, S. Dak. CM Richmond, Va.
1120	kcys.	(26 7
CHLP CHSJ CKOC CKX CMGF CMKK CRCS KFIO KFSG KRSC KTBC WCOP WDEL WISN WJBO WTAW	ak 100 ak 500 ak 500 ak 250 ak 200 ak 200 ak 100 ak 100 ak 500 ak 500 ak 250 ak 250 ak 500 ak 500 ak 500	 F Montreal, P. Q. F (1) St. John, N. B. F (1) Hamilton, Ont. F Brandon, Man. Manzanillo, Cuba F Chicoutimi, P. Q. D Spokane, Wash. a (2.5) Los Angeles, Calif. a (2.5) Los Angeles, Calif. Seattle, Wash. DP Austin, Texas D Boston, Mass. R (.5) Wilmington, Del. C (1) Milwaukee, Wis, B Baton Rouge, La. College Sta., Tex.
1130	kcys.	(265.3)
CMJI KSL WJJD WOV XEJP	ak 150 ak 50000 ak 20000 ak 1000 z 100	Ciego de Avila, Cuba C Salt Lake City, Ut, Dn Chicago, III. D New York, N. Y. Mexico City, D. F.
1140	kcys.	(263.0)
CMCW KVOO WAPI WSPR	dk 500 ak 25000 ak 5000 ak 500	Havana, Cuba Ni Tulsa, Okla. Ci Birmingham, Ala. DM Springfield, Mass.
1150	kcys.	(260.7)
CMJF WHAM XEBP XEC XEDW	z 200 ak 50000 z 250 ak 100 z 20	Camaguey, Cuba B Rochester, N. Y. Durango, Dgo. Tijuana, B. Cfa. Minatitlan, Ver.
1160	kcys.	(258.5)
CMHJ CMKG WOWO WWVA XEAS XED XEFM XEP	ak 175 z ak 1000 ak 5000 ak 500 ak 500 z 20 ak 500	Cienfuegos, Cuba Santiago, Cuba B1 Fort Wayne, Ind. C1 Wheeling, W. Va. Saltillo, Coah. Guadalajara, Jal. Leon, Gto. Juarez, Chih.

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1170	kcvs.	(256.3)
CMBS	ak 150 ak 50000	X Havana, Cuba C Philadelphia, Pa.
WCAU XEXX	z 1000	C Philadelphia, Pa. Mexico City, D. F.
1180	kcys.	(254.1)
	v	· · · · · · · · · · · · · · · · · · ·
CMJO KEX	ak 50 ak 5000	Ciego de Avila, Cuba B2 Portland, Ore. N2 Albuquerque, N. M. CDn(5) Minneapolis, Minn. New York, N. Y.
KOB	ak 10000	N2 Albuquerque, N. M.
WDG Y WINS	ak 1000 ak 1000	New York, N. Y.
WMAZ	ak 1000	C(5) Macon, Ga. Tacuba, D. F.
XEFA	z 500	Tacuba, D. F.
1100	1	(252.0)
1190	kcys.	(252.0)
CMKX	z	Santiago, Cuba
KTKC VONF	ak 250 ak 500	D Visalia, Calif. 1195 St. John's, Nfid.
WATR WOAI	ak 100	DXZ Waterbury, Conn.
WOAI WSAZ	ak 50000 ak 1000	N San Antonio, Tex. Huntington, W. Va.
WSAL	ak 1000	Huntington, w. va.
1200	İzave	(249.9)
1200	kcys.	(249.9)
CFGP	z 100	Grande Prairie, Alta-
CHAB	ak 100 dk 100	F Moose Jaw, Sask Wingham, Ont.
CKNX CKTB	ak 100	F St. Catharines, Ont.
CMCO KADA	ađ 250 ak 100	Havana, Cuba DM Ada, Okla
квтм	ak 100	D Jonesboro, Ark.
KDNC	z 100	D Jonesboro, Ark. (.25) P Lewistown, Mont. N Sioux Falls, S. Dak.
KELO KFJB	z 100 ak 100	(.25) Marshalltown, Ia.
KFJB KFXD	ak 100	 (.25) Marshalltown, Ia. (.25) Nampa, Idaho (.25) Grand Junc., Colo. DP Coeur d'Alene, Idaho (.25) Fergus Falls, Minn. Sterling, Colo.
KFXJ	ak 100 z 100	(.25) Grand Junc., Golo. DP Coeur d'Alene, Idaho
KGCI KGDE KGEK	c 100	(.25) Fergus Falls, Minn.
KGEK KGFJ	ak 100 ak 100	
KGHI	ak 100	Los Angeles, Calif. (.25) Little Rock, Ark. DP Greenville, Texas
KGHI KGVL KMLB	z 100 ak 100	DP Greenville Texas
KOOS	ak 100 ak 100	(.25) Monroe, La. (.25) Marsh field, Ore.
KSUN	ak 100	(.25) Lowen, Ariz.
KVCV KVEC KVOS	ak 100 ak 250	Redding, Calif. D San Luis Obispo, Calif.
KVOS	dk 100	D San Luis Obispo, Calif, M Bellingham, Wash.
KWG KWNO	ak 100 z 250	N Stockton, Calif. D Winona, Minn.
WARI	ak 100	(.25) Bangor, Maine
WAIM WAYX	ak 100 ak 100	(25) Waycross Ga
WBBZ	ak 100	M (.25) Ponca City, Okla. Huntsville, Ala.
WBHP WBNO	ak 100 ak 100	2 New Orleans, La.
WBNO WCAT WCAX	ak 100	D Danid City S Dak
WCAX WCLO	ak 100 ak 100	(.25) Burlington, Vt.
WCPO	ak 100	(.25) Burlington, Vt. (.25) Janesville, Wis. (.25) Cincinnati, Ohio P Superior, Wis.
WDSM WEST	z 100 ak 100	
WFAM	ak 100 ak 100	3 (.25) Easton, Pa. 4 South Bend, Ind.
WFTC WHBC WHBY	ak 100	(.25) Kinston, N. C.
WHBY	ak 100 ak 190	(.25) Canton, Obio (.25) Green Bay, Wis. C (.25) Utica, N. Y.
WIBX	ak 100	(125) Green Bay, Wis. C (125) Utica, N. Y. (125) St. Louis, Mo. 5 (125) Bloomington, III.
WIL WJBC	ak 100 ak 100	5(.25) Bloomington, III.
WJBL	ak 100	5 Decatur, Ill.
WJBW WJNO	ak 100 ak 100	5 Decatur, Ill. 2 New Orleans, La. C (.25) W. Palm Beach, Fla.
WJRD	ak 250	D Tuscaloosa, Ala.
WKBO WLVA	ak 100	3 (.25) Harrisburg, Pa. (.25) Lynchburg, Va.
WLVA	ak 100	(.25) Lynchburg, va.

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					Heard	Reported	Verified
WMFR	ak	100	D	High Point, N. C.	Heard	Reported	Vermeu
WMPC	ak	100	(.25)	Lapeer, Mich.			
WOLS WRBL	z ak	$\begin{array}{c} 100 \\ 100 \end{array}$	D (.25)	Florence, S. C. Columbus, Ga.			
WSAL	z	250	D D	Salisbury, Md.			
WTHT	ak	100	M	Hartford, Conn.			
WTOL WWAE	ak ak	$\begin{array}{c} 100\\ 100 \end{array}$	D 8	Toledo, Ohio Hammond, Ind.			
XEBU	Z	50		Chihuahua, Chih.			
			(0.1=			1	
1210	kc	ys.	(247	.8)			
CHLT	z	100		Sherbrooke, P. O.			
CJCS	ak	50		Stratford, Ont.			
CJCU CKBI	z ak	50 100	F	Aklavik, N.W.T. Prince Albert, Sask.			
CKCH	ak	100	F	Hull, P. O.			
CKMC	ak	50		Hull, P. Q. Cobalt, Ont. Santa Clara, Cuba			
CMHI KALB	ak ak	150 100	(.25)	Santa Clara, Cuba Alexandria, La.			
KANS	ak	100	N N	Wichita, Kans.			
KASA	с	100		Elk City, Okla.			
KDLR	ak z	100 100	M	Devils Lake, N. D. Monterey, Calif.			
KDON Kfji	ak	100		Klamath Falls, Ore.			
KFOR	ak	100	CM(.2	5) Lincoln, Nebr.			
KFPW KFVS	ak ak	$\begin{array}{c}100\\100\end{array}$	5 (25)	Fort Smith, Ark. Cape Girardeau, Mo.			
KFXM	ak	100	5 (.25) M2	San Bernardino, Cal.			
KGLO	z	1 00	- C (.25)	Mason City, Iowa			
KGY	ak z	100 100	M D	Olympia, Wash. Okmulgee, Okla.			
KHBG KIUL	z ak	100	D	Garden City, Kans.			
KLAH	ak	100		Carisbad, N. Mex.			
KOCA KPFA	ak ak	100 100	(.25) N(.25)	Kilgore, Texas Helena, Mont.			
KPPC	ak	100	2	Pasadena, Calif.			
KROY	ak	100	CD	Sacramento, Calif.			
KVSO	ak z	$\begin{array}{c} 100 \\ 100 \end{array}$	M (.25 (.25)P) Ardmore, Okla, Globe, Ariz.			
KWJB KWTN	ak	100	(.23)	Watertown, S. Dak. Zanesville, Ohio			
WALR	ak	100					
WBAX WBBL	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	M S	Wilkes-Barre, Pa. Richmond, Va.			
WBLY	ak	100	D	Lima, Ohio			
WBRB WCOL	ak	100 100	3 N	Red Bank, N. J. Columbus, Ohio			
WCRW	ak ak	100	4	Chicago, Ill.			
WEBO	ak	100		Harrisburg, Ill.			
WEDČ WFAS	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	4 3	Chicago, Ill. White Plains, N. Y.			
WFOY	ak	100	(.25)	St. Augustine, Fla. Freeport, N. Y.			
WGBB	$\mathbf{a}\mathbf{k}$	100	3	Freeport, N. Y.			
WGCM WGNY	ak ak	100 100	(.25) 3	Gulfport, Miss. Newburgh, N. Y.			
WGRM	ak	100		Grenada, Miss.			
WHAI WHBF	z	250	DP (25)	Greenfield, Mass. Rock Island, Ill.			
WHBF	ak ak	100 109	(.25) (.25)	Anderson, Ind.			
WIBU	ak	100	(.25)	Poynette, Wis.		N	
WJBY WJEJ	ak ak	100 50	(.25) Dn(.1)	Gadsden, Ala. Hagerstown, Md.			
WJIM	ar Z	100	(.25)	Lansing, Mich.			
WJTN	ak	100	B (.25)	Jamestown, N. Y.			
WJW WKOK	ak ak	100 109	(.25)	Akron, Ohio Sunbury, Pa.			
WLMU	z	100	P (.25)	Middlesboro, Ky.			
WMFG	ak ak	100 100	(.25)	Hibbing, Minn. Monitowog, Wis			
WOMT WPAX	a k a k	100	D	Manitowoc, Wis. Thomasville, Ga.			
WSAY	z	100	D	Rochester, N. Y.			
WSBC	ak ak	100 100	4 (.25) (.25)	Chicago, Ill. Nashville Tenn			
WSIX WSNJ	ак z	100	Ď	Nashville, Tenn. Bridgeton, N. J.			
wsoc	ak	100	N (.25) Charlotte, N. C.			
WTAX XEAT	ak ak	$\frac{100}{250}$		Springfield, Ill. Parral, Chih.			
XEE	ak	50		Durango, Dgo.			
XEFV	ak	100		Juarez, Chih.			
ХЕТН	ak z	$\begin{array}{c} 100 \\ 100 \end{array}$	DP '	Puebla, Pue. Rice Lake, Wis.			
	-	- 00					

		Heard	Reported	Verified
1220 kcys.	(245.8)			
CMJE z 50 KFKU ak 1000 KTMS z 590 KTW ak 1000 WCAD ak 500 WCAD ak 1000 WDAE ak 1000 WDAE ak 1000 WEEN ak 1000 XEBL z 50 XEDA z 200 XETF ak 12	Camaguey, Cuba a (5) Lawrence, Kans. B Santa Barbara, Cal. S2 Seattle, Wash. 2 (5) Pullman, Wash. D Canton, N. Y. MR (5) Pittsburgh, Pa. C (5) Tampa, Fla. Ba(5) Lawrence, Kans. Gral. Anaya, D. F. Veracruz. Ver.			
1230 kcys.	(243.8)			
CMCB z 150 KGBX ak 500 KGGM ak 1000 KYA ak 1000 WFBM ak 1000 WNAC ak 1000 WNAC ak 1000 XEAZ z 200 XEG z 250	Havana, Cuba N. Springfield, Mo. Albuquerque, N. M. (5) San Francisco, Cal, C (5) Indianapolis. Ind. R (5) Boston, Mass. Zacatecas, Zac. Monterrey, N. L.			
1240 kcys.	(241.8)			
CJCB ak 1000 CMHB z 56 KGCU ak 250 KLPM ak 250 KTAT ak 1000 WKAQ ak 1000 WKAQ ak 1000 WXYZ ak 1000 XEKL z 500 XEME z 50	F Syndey, N. S. Sancti Spiritus, Cuba 1 Mandan, N. Dak. 1XZ Minot, N. Dak. M Fort Worth, Texas Twin Falls, Idaho San Juan, P. R B Detroit, Mich. Leon, Guan, Saltillo, Coah. Merida, Yuc.			
1250 kcys. CMKC ak 150 HRN c 59 KFOX ak 1000 KIT ak 250 KXOK z 1000 WAIR ak 250 WCAL ah 1000 WISU ak 1000 WHBI ak 1000 WKST z 250 WLB ak 1000 WNEW ak 1000 WTCN ak 1000 WTCN ak 1000 WTCN ak 1000 XEAJ z 500 XEXH z 250	(239.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. X (.5) Yakima, Wash. P St. Louis, Mo. D WinstSalem, N. C. 2XZ Northfield, Minn. B New Orleans, La. (2.5) Newark, N. J. DP New Castle, Pa. 2XZ Minneapolis, Minn. (2.5) New York, N. Y. B (5) Minneapolis, Minn. Mexico City, D. F. San Luis Pot., S.L.P.			
1260 kcys.	(238.0)			
CMBD ak 500 CMC z 150 KGVO ak 1000 KHSL ak 250 KOIL ak 1000 KPAC ak 500 KRGV ak 1000 KUOA ak 5000 WHIO ak 1000 WHIO ak 500 WHOC ak 1000	2XHavana, Cuba2Havana, Cuba3Havana, CubaCMissoula, Mont.Chico, Calif.BM(5)Omaha, Nebr.DPort Arthur, TexasNWeslaco, TexasDSiloam Spgs., ArkTucson, Ariz.C (5)Dayton, OhioCM(1)Springfield, Vt.CSavannah, Ga.			
1270 kcys.	(236.1)			
CMHD dk 250 KGCA ak 100 KOL ak 1000 KVOR ak 1000 KWLC ak 100	2D Caibarien, Cuba 2D Decorah, Iowa M (5) Seattle, Wash, C Colo, Springs, Colo. 2D Decorah, Iowa			

		Heard	Reported	Verified
WASH ak 500 WFBR ak 500 WJDX ak 1000 WOOD ak 500 XEXB ak 250 XEXE z 17	DaN Grd. Rpds., Mich. R (1) Baltimore, Md. R (5) Jackson, Miss. Na Gd. Rapids, Mich. Jalapa, Ver. Texcoco, D. F.		neporteu	vermed
1280 kcys.	(234.2)			
CMKO z KFBB ak 1000 KLS ak 250 WCAM ak 500 WCAP ak 500 WDOD ak 1000 WIBA ak 1000 WORC ak 500 WRR ak 500 WTNJ ak 500 XEMX z 100	Holguin, CubaC (5)Great Falls, MontOakland, Calif.1Camden, N. J.1Asbury Park, N. J.C (5)Chattanooga, Tenn.N (5)Madison, Wis.CWorcester, Mass.MDallas, Texas1Trenton, N. JMexico City, D. F.			
1290 kcys.	(232.4)			
CMCU ak 500 KDYL ak 1000 KLCN ak 100 KTRH ak 1000 WEBC ak 1000 WJAS ak 1000 WNBZ ak 100 WNBL ak 1000	Havana, CubaRXSalt Lake City, Ut.DBlytheville, Ark.C (5)Houston, TexasN (5)Duluth, Minn.C (5)Pittsburgh, Pa.DSaranac Lake, N. Y.(2.5)San Juan, P. R.			
1300 kcys.	(230.6)			
H17P ak 25 KALE ak 1000 KFAC ak 1000 KFH ak 1000 WFAB ak 1000 WFAB ak 1000 WFAB ak 1000 WFAB ak 1000 WFAC ak 1000 WFAC ak 1000 WHAL ak 250	 Trujillo, D. R. M Portland, Ore. Los Angeles, Calif. C (5) Wichita, Kans. 1305 Guatemala City, Guat. 1 Brooklyn, N. Y. 1 New York, N. Y. 1 New York, N. Y. 1 New York, N. Y. 1 Greenville, S. C. 1 Troy, N. Y. Sheboygan, Wis. 			
1310 kcys.	(228.9)			
CHCK ak 50 CJKL ak 100 CJLS ak 100 CKCV ak 100 CKCV ak 100 KAND z 100 KARM ak 100 KCKJ ak 100 KCKJ ak 100 KCKJ ak 100 KFZR ak 100 KFYO ak 100 KGEZ ak 100 KRDN ak 100 KRBA 2 100 KRBA 100 KRBA KROA ak 100 KRRV 2 250 KSRO ak 100 KVOX 2 100 KVOX 2 100 KVOX 2 100 KVOX 2 100 KVOX 100 KVOX KWOS 100 <	 Charlottetown, P.E.I. F North Bay, Ont. F Yarmouth, N. S. F Quebec, P. O. D Corsicana, Tex. C Fresno, Calif. Kansas City, Kans. (.25) Jerome, Ariz. (.25) Dublin, Texas (.25) Lubbock. Texas (.25) Lubbock. Texas (.25) Lubbock. Texas Kearney, Nebr. D Watsonville, Calif. XZ Juneau, Alaska D Pampa, Texas (.25) Shreveport, La. (.25) Moorheast, Calif. Lafayette, La. (.25) Moorhead, Minn. D Panjar Bluff, Mo. Jefferson City, Mo. M(.25) Aberdeen, Wash. (.25) Aberdeen, Wash. (.25) Aberdeen, Wash. (.25) Aberdeen, Wash. (.25) Aberdeen, Wiss. D Marquette, Mich. 			

				Heard	Reported	Verified
WBOW WBRE	ak 10 ak 10	0 N (.25) Te 0 N Wi	rre Haute, Ind. lkes-Barre, Pa.			
WBRK	z 10	0 C (.25) Pit	tsfield, Mass.			
WCLS WCMI	ak 10 ak 10	0 (.25) Asl	iet, Ill. hland, Ky.			
WDAH WEBR	ak 10 ak 10	0 S(.25)El 0 B(.25)Bu	nland, Ky. Paso, Texas ffalo, N. Y.			
WEMP	ak 10	0 D MI	lwaukee, Wis. yal Oak, Mich.			
WEXL WFBG	ak 10	0 3 Alt	oona, Pa.			
WFDF WGAU	ak 10 z 10	0 (25) At	nt. Mich. nens, Ga.			
WGH	ak 10 z 10	0 (.25) Ne 0 D Wi	wport News, Va. Ison, N. C.			
WGTM WHAT WJAC	ak 10 ak 10	0_4 Ph	iladelphia, Pa. 1nstown, Pa.			
WLAK	z 10	0 La	keland, Fla.			
WLBC WLNH	ak 10 ak 10	0 M La	incie, Ind. conia, N. H.			
WMBO WMFF	ak 10 ak 10	0 (25) Pla	burn, N. Y. ttsburg, N. Y.			
WNBH WOL	ak 10 ak 100	0 M (.25) Ne 0 M 7 We	w Bedford, Mass. shington, D. C.			
WRAW	ak 10	0 Re	ading, Pa.			
WROL WSAJ	ak 10 ak 10	0 Gr	oxville, Tenn. ove City, Pa			
WSGN WSJS	ak 10 ak 10	0 B (.25) Bir 0 C Wi	mingham, Ala. nston-Salem, N. C.			
WTAL WTEL	ak 10 ak 10	0 (.25) Ta	lláhassee, Flá. iladelphia, Pa.			:
WTJS	ak 10	0 (.25) Jac	kson. Tenn.			
WTRC XEAG	ak 10 z 1	0 Co	thart, Ind. rdoba, Ver.			[
XEBO XEFW	z 2 ak 30	5 Ira 0 Ta	puato, Guan. mpico, Tams.			
XETB XEX	ak 12 ak 12	5 10	rreon, Coah. interrey, N. L.			
XEXS	z 10	0 Me	xico City, D. F.			
1320	kcys	. (227.1)				
CMOX	ak 20 ak 50		vana, Cuba eblo, Colo.			
KGHF KGMB	ak 100	0 СМ Но	nolulu, Hawaii			
KID KRNT	ak 50 ak 100	0 C (5) De	nho Falls, Idaho s Moines, Iowa			
WADC WORK	ak 100 ak 100	0 N Yo	ron, Ohio rk, Pa.			
WSMB XEAU	ak 100 z	0 R (5) Ne	w Orleans, La. uana, B. Cfa.			
1330	kcys	. (225.4)				
СМНК	z 25		ices, Cuba			
KGB KMO	ak 100 ak 100	0 M Sai	n Diego, Calif. coma, Wash.		,	
KRIS	z 50	0 N Co 0 C (5) Sid	rpus Christi, Tex. ux City, Iowa			
KSCJ WDRC	ak 100	0 C (5) Ha	rtford, Conn.			
WSAI WTAQ	ak 100 ak 100	$\begin{array}{ccc} 0 & \mathbf{M}\mathbf{N}(5) & \mathbf{C}\mathbf{I} \\ 0 & \mathbf{C} & & \mathbf{Gr} \end{array}$	ncinnati. Ohio een Bay, Wis.			
1340	kcys	. (223.7)				
CMAB	z 30	9 Pir	ar del Rio, Cuba			
CMJW KDTH	z 30 z 50	0 DP Du	maguey, Cuba buque, Iowa ron, S. Dak.			
KGDY KGIR	ak 25 ak 100	0 N (2.5) Bu	tte. Mont.			
KGNO WCOA	ak 25 ak 50	0 Do 0 C(1) Pe	dge City, Kans. nsacola, Fla.			
WFEA	ak 50	0 MN(1) Ma	inchester, N. H.			
WSPD XEAP	ak 100 z 5	0 Ob	ledo, Ohio regon, Son,			
XEBS XEDH	z 20 z 20	0 Me 0 Vil	xico City, D. F. la Acuna, Coah.			
XEXD	z 35	0 Jal	apa, ver.			
1350	kcys	. (222.1)				
CMCA	ak 45	0 X Ha	vana, Cuba		l .	1
			74	1 .		

					Heard	Reported	Verified
CMKW	z			Santiago, Cuba	Acuru	Reported	Vermeu
KIDO KWK		1000 1000	N (2.5) BM(5)	Bolse, Idaho St. Louis, Mo.			
WAWZ	ak	500	1 (1)X	Zarephath, N. J. New York, N. Y.			
WBNX WMBG	ak ak	1000 500	1 R	New York, N. Y. Richmond, Va.			
" mbd	46	500					
1360	kc	ys.	(220	.4)			
СМЈН	dk	50		Ciego de Avila, Cuba			
KCRC	ak	250	Μ	Enid, Okla.			
KGER WCSC	ak ak	1000 500	N(1)	Long Beach, Calif. Charleston, S. C.			
WFBL		1000	N (1) C (5)	Charleston, S. C. Syracuse, N. Y.			
WGES WQBC	ak ak	500 1000	1 (1) D	Chicago, III. Vicksburg, Miss.			
WSBT	ak	500	1	South Bend, Ind.			
1370	kc	vs.	(218	.8)			
	z	100	(Flin Flon, Man.			
CFAR CKCW	ak	100	F	Moncton, N. B.			
CMGE KAST	ak ak	150 100	D	Cardenas, Cuba Astoria, Ore.			
ксмо	ak	100		Kansas City, Mo.			
KEEN KELD	ak z	100 100	3	Seattle, Wash. El Dorado, Ark.			1
KERN	ak	100	N	Bakersfield, Calif.			1
KFGQ Kfjz	ak ak	100 100	D (.25)	Boone, Iowa Fort Worth, Texas			
KFRO	ak	250	D	Longview, Texas			
KGAR KGFL	ak ak	100	C (.25)	Tucson, Arizona Roswell, N. Mex.			
KGKL	ak	100	(.25)	San Angelo, Texas			
KICA KIUP	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	4	Clovis, N. Mex. Durango, Colo.			
KLUF	ak	100		Galveston, Texas			
КМАС КОВН	ak ak	$100 \\ 100$	5 (,25) (,25)	San Antonio, Tex, Rapid City, S. Dak,			
коко	ak	100		La Junta, Colo,			
KONO KRE	ak ak	$100 \\ 100$	(.25)	San Antonio, Tex. Berkeley, Calif.	1-1 miles		
KRKO	ak	50		Berkeley, Calif. Everett, Wash.			
KRMC KSLM	z ak	$\begin{array}{c}100\\100\end{array}$	(.25) M	Jamestown, N. D. Salem, Ore.			
КТЕМ КТОК	ak	250 100	D MN	Temple, Texas			
KUJ	bk ak	100	1911.9	Oklahoma City, Ok. Walla Walla, Wash. Great Bend, Kans.			
KVGB KVRS	Z Z	$\begin{array}{c}100\\100\end{array}$	(25)P	Great Bend, Kans. Rock Springs, Wyo.			
KWYO	ak	100	(.25)P (.25)	Sheridan, Wyo.			
WABY WAGF	ak ak	$\frac{100}{250}$	B(.25) D	Albany, N. Y. Dothan, Ala.			
WATL	ak	100	(.25)	Atlanta, Ga.			
WBLK WBN Y	ak ak	$100 \\ 100$	2 (.25)	Clarksburg, W. Va. Buffalo, N. Y.			
WBTM	ak	100	2 (.25) (.25)	Danville, Va.			
WCBM WDAS	ak ak	100 100	(.25) (.25)	Baltimore, Md, Philadelphia, Pa,			
WDWS	ak ak	100 100	D C(.25)	Champaign, Ill.			
WEOA WFOR	ak	100	C (.23)	Evansville, Ind. Hattiesburg, Miss.			
WGL WGRC	ak ak	100 250	N(.25) D	Fort Wayne, Ind.			
WHBQ	ak	100		New Albany, Ind. Memphis, Tenn. Calumet, Mich.			
WHDF WHLB	ak ak	100 100	(,25) C(,25)	Calumet, Mich. Virginia, Minn.			
WHLS	z	250	DP	Port Huron, Mich.			
WIBM WLLH	ak ak	100 100	(.25)	Jackson, Mich. Lawrence Mass			
WLLH	ak	100	MSy(.	Lawrence, Mass. 25) Lowell, Mass.			
WMBR WMFD	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	- C (.25) - D) Jacksonville, Fla. Wilmington, N. C.			
WMFO	ak	100	D	Decatur, Ala, St. Paul, Minn,			
WMIN WOC	ak ak	$\begin{array}{c} 100 \\ 100 \end{array}$	(.25) C (.25)	St. Paul, Minn. Davenport, Iowa			
WPAY	ak	100		Portsmouth, Ohio Mayaguez, P. R.			
WPRA WRAK	z ak	$\begin{array}{c} 100 \\ 100 \end{array}$	(.25) (.25)	Mayaguez, P. R. Williamsport, Pa,			
WRDO	ak	100	M	Augusta, Maine			
WRJN	ak	100	(.25)	Racine, Wis.			

			Heard	Reported	Verified
WSAU WSVS	ak 100 ak 50	2D Buffalo, N. Y.			
XECZ XEI XELZ	z 100 ak 125 z 100	San L. Pot., S.L.P. Morelia, Mich. Mexico City, D. F.			
XELZ	2 100	Owen Sound, Ont.			
1380 смск	kcys.	(217.3)			
СМСХ КОН	z 150 ak 500	C Reno, Nevada			
KOV WALA WKBH	ak 500 ak 500 ak 1000	C1 Pittsburgh, Pa. C (1) Mobile, Ala. C La Crosse, Wis.			
WNBC WSMK	ak 250 ak 200	D New Britain, Conn C 1 Dayton, Ohio			
1390	kcys.	(215.7)			
CJGX CMJC	ak 100 z 150	F Yorkton, Sask. Camaguey, Cuba			
KLRA KOY KRLC	ak 1000 ak 1000 ak 250	C (5) Little Rock, Ark. C Phoenix, Ariz. Lewiston, Idaho			
WHK WQDM	ak 1000 dk 1000	BM(2.5) Cleveland, Ohio D St. Albans, Vt.			
1400	kcys.	(214.2)	ļ		
CMGC CMKR	ad 150 z 100	Matanzas, Cuba Santiago, Cuba			
KHBC KLO KTUL	ak 250 ak 500 ak 500	CM Hilo, T. H. B Ogden, Utah C (1) Tulsa, Okla.			
WARD WBBC	ak 500 ak 500	$\begin{array}{llllllllllllllllllllllllllllllllllll$			•
WHDL WIRE WLTH	ak 250 ak 1000 ak 500	D Olean, N. Y. MR (5) Indianapolis, Ind. 2 Brooklyn, N. Y.			
WVFW	ak 500	2 Brooklyn, N. Y.	1		
1410 CKFC	kcys.	(212.6) 5 Vancouver, B. C.	J		
CKMO CMCO	ak 100 ak 5000	5 Vancouver, B. C. Havana, Cuba (1) Grand Forks, N. D			
KFJM KGNC KMED	ak 500 ak 1000 ck 250	(1) Grand Forks, N. D (2.5) N Amarillo, Texas N Medford, Ore.	·-		
WAAB WBCM	ak 500 ak 500	M (1) Boston, Mass. (1) Bay City, Mich. (1) Bluefield, W. Va.			
WHIS WROK WSFA	ak 500 ak 500 ak 500	 (1) Bluefield, W. Va. (1) Rockford, 111. C (1) Montgomery, Ala. 			
1420	kcys.	(211.1)]		
CHLN CKGB	z 100 ak 100	Three Rivers, P. Q F North Bay, Ont.			
KABC KABR	ak 100 ak 100	(.25) San Antonio, Texa XZ Aberdeen, S. D.	18		
KATE KBPS KCMC	ak 250 ak 100 ak 100	D Albert Lea. Minn. 4 Portland, Ore. (.25) Texarkana, Tex.			
KDNT KEUB	z 100 ak 100	DP Denton, Tex. Price. Utah P St. Cloud, Minn.			
KFAM KFIZ KGFF	z 100 ak 100 ak 100	Fond du Lac, Wis. (.25) M Shawnee, Okla.	•		
KGGC KGIW	ak 100 ak 100	San Francisco, Cal Alamosa, Colo.	1.		
KGLU KIDW KIUN	z 100 ak 100 ak 100	P(.25) Safford, Ariz. Lamar, Colo. Pecos, Texas			
KLBM KNET	z 100 ak 100	(.25) P La Grande, Ore. D Palestine, Texas			
KORE KRBC	ak 100 ak 100 z 100	M Eugene, Ore. (.25) Abilene, Texas P Beaumont, Tex.			
KRIC KRLH KTRI	z 100 ak 100 z 100	D Midland, Texas (.25) P Sioux City, Iowa			

	Heard	Reported	Verified
KUMA ak 100 Yuma, Ariz. KWBG ak 100 Hutchnison, Kans.	mouru	Mephrica	vermeu
KXL ak 100 4 (.25) Portland, Ore.			
WACO ak 100 C Waco, Texas WAGM ak 100 Presque Isle, Me.			
WAPO ak 100 (.25) Chattanooga, Tenn, WAZL ak 100 2 Hazleton, Pa.			
WCBS ak 100 (.25) Springfield, III, WCHV ak 100 3 (.25) Charlottesville, Va. WEED ak 100 3 (.25) Rocky Mount, N. C.			1
WEED ak 100 3 (.25) Rocky Mount, N. C. WEEL ak 100 Box Box Box Mount, N. C.			
WELL ak 100 Battle Creek, Mich. WGPC ak 100 Albany, Ga. WHFC ak 100 (.25) Cicero, III.			
WILM aj 100 2 Wilmington, Del,			
WJMS ak 100 Ironwood, Mich. WLAP ak 100 (.25) Lexington, Ky.			
WLEU ak 100 (.25) B Erie, Pa, WMAS ak 100 C (.25) Springfield, Mass.			
WMBC ak 100 (.25) Detroit, Mich.			
WMBH ak 100 (.25) Joplin, Mo. WMBS ak 250 D Uniontown, Pa.			
WMFJ ak 100 Daytona Bch., Fla. WMSD ak 100 Sheffield, Ala.			
WNNY z 100 (.25) P Watertown, N. Y. WPAD ak 100 (.25) Paducah, Ky.			:
WPAD ak 100 (.25) Paducah, Ky. WPAR ak 100 C Parkersburg, W. V. WPRP z 100 (.25) Ponce, Puerto Rico			
z 100 P(.25) Bozeman, Mont.			
1430 kcys. (209.7)			
CMJP ak 75 Moron, Cuba KECA ak 1000 (5) B Los Angeles, Cal. KGNF ak 1000 D North Platte, Neb.			
KSO ak 500 BM(2.5) Des Moines Iowa			
WBNS ak 1000 C (5) Columbus, O hio WHEC ak 500 C (1) Rochester, N. Y. WHP ak 500 C (1) Harrisburg, Pa.			
WHP ak 500 C (1) Harrisburg, Pa. WMPS ak 500 (1) B Memphis, Tenn.			
WOKO ak 500 C(1) Albany, N. Y.			
1440 kcys. (208.2)			
CMOA z 150 Havana, Cuba KDFN ak 500 Casper, Wyo.			
KELA ak 500 M Centralia, Wash. KXYZ ak 1000 B Houston, Texas			
WBIG ak 1000 C Greensboro, N. C. WCBA aj 500 a Allentown, Pa.			
WMBD ak 1000 C(5) Peoria, III.			
WSAN aj 500 Na Allentown, Pa. XEFI ak 250 Chihuahua, Chih.			-
1450 kcys. (206.8)			
CFCT ak 500 Victoria, B. C.			
CMHM z 100 Cienfuegos, Cuba			
KGCX ak 1000 Wolf Point, Mont. KIEM ak 500 M(1) Eureka, Calif.			
KTBS ak 1000 N Shreveport, La. WAGA ak 500 B (1) Atlanta, Ga.			
WGAR ak 500 C (1)X Cleveland, Ohio WHOM ak 250 Jersey City, N. J.			
WHOM ak 250 Jersey City, N. J. WSAR ak 1000 M Fall River, Mass. XEF ak 100 Juarez, Chih,			
1460 kcys. (205.4)			
CMKE z 250 Holdwin Cuba			
KSTP ak 10000 R (25) St. Paul, Minn. WJSV ak 10000 C Washington, D. C.			
1470 kcys. (204.0)			
KGA ak 5000 BM Spokane, Wash. WLAC ak 5000 C Nashville, Tenn.			
1480 kcys. (202.6)			
KOMA ak 5000 C Oklahoma City, Ok.			
77			

WHIP	z 5000	D	llammond, Ind.	Heard	Reported	Verified
WKBW	ak 5000	C	Buffalo, N. Y.			
1490	kcys.	(201	·			
KFBK WCK Y	ak 10000 ak 10000	N N	Sacramento, Calif. Covington, Ky.			
1500	kcys.	(199	0.9)			
CJIC KAWM	ak 100 z 100	F	S. S. Marie, Ont. Gallup, N. Mex.			
KBIX KBST KDAL	ak 100 z 100 ak 100	M C	Muskogee, Okla. Big Spring, Texas Duluth Ming			
KDAL KDB KGFI	ak 100 ak 100 ak 100	M(.25)	Duluth, Minn.) Santa Barbara, Cal. Brownsville, T ex.			
KGKB KGKY	ak 100 ak 100	(.25) (.25)	Tyler, Texas Scottsbluff, Neb.			
KNEL KNOW KOTN	ak 250 ak 100 ak 100	D C D	Brady, Texas Austin, Texas Pine Bluff, Ark.			
KOVC KPAB	ak 100 z 100	(.25)	Valley City, N. D. Laredo, Texas			
KPLC KPLT	ak 100 z 250	(.25)	Lake Charles, La. Paris. Texas			1
KPQ KRNR KROD	ak 100? ak 100? ak 100	M(.25) M(.25) P	Wenatchee, Wash. Roseburg, Ore. El Paso, Texas Salina, Kans.			
KSAL KUTA	ak 100 z 100	(.25) P	Salt Lake City, Ut.			
KVNU KVOE	z 100 ak 100	P M	Logan, Utah Santa Ana, Calif,			
KWEW KXO KYSM	z 100 ak 100 z 100	DP (.25)P	Hobbs, N. Mex. El Centro, Calif. Mankato, Minn.			
WCNW WDNC	ak 100 ak 100	-1 (.25) -C	Brooklyn, N. Y. Durham, N. C.			
WGAL WGIL	ak 100 z 250	(.25) DP	Lancaster, Pa. Galesburg, Ill.			
WHBB Whef Wjbk	ak 100 ak 100 ak 100	(.25) (.25)	Selma, Ala. Kosciusko, Miss. Detroit, Mich.			
WKAT WKBB	z 100 ak 100		Miami Beach, Fla. CY E. Dubuque, III.			
WKBV WKBZ	ak 100 ak 100	(.25) (.25)	Richmond, Ind. Muskegon, Mich.			
WKEU WMBQ WMEX	ak 100 ak 100 ak 100	D 1 (25)	Griffin, Ga. Brooklyn, N. Y. Boston, Mass.			
WNBF WNLC	ak 100 ak 100	(.25) C(.25) DM	Binghamton, N. Y. New London, Conn.			
WOMI WOPI	ak 100 ak 100	(.25)	Owensboro, Ky. Bristol, Tenn.			
WRDW WRGA WRTD	ak 100 ak 100 ak 100	C(.25) (.25) B	Augusta, Ga. Rome, Ga. Richmond, Va.			
WSYB WTMV	ak 100 ak 100	(.25)	Rutland, Vt. E. St. Louis, Ill.			
ŴWRL WWSW	ak 100 ak 100	1 (.25) (.25)	Woodside, N. Y. Pittsburgh, Pa.			
1510	kcys.	(198	5.6)			
CFRC CKCR	ak 100 ak 100	F 	Kingston, Ont. Waterloo, Ont.			
1520 тсw	kcys.	(197	7.3) Guatemala City, Guat.			
1530	kcys.	(196				
KXBY WBRY	ak 1000	M	Kansas City, Mo.			
1550	ak 1000	м (193	Waterbury, Conn.			
KPMC	kcys.	(195 М	Bakersfield, Calif.			
WQXR	ak 1000	•••••	New York, N. Y.		1 I	

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 Mutual.

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

Thomasville WPAX 1210 100	WR
Waycross WAYX 1200 100	wH
HAWAII	Sr WCI WT
Hilo KHBC 1400 250M	T
Honolulu KGMB 1320 1000 C KGU 750 2500 N	WIL
IDAHO	
	AI WHI
Boise KIDO 1350 1000 N Coeur d'Alene	
KGCI 1200 100	Ev WEC
Idaho Falls KID 1320 500 Lewiston	WGI
Lewiston KRLC 1390 250	Fo WGI WOV
Nampa KFXD 1200 100 Pocatello	Ga WIN
KSEI 900 250 N	33/11
Twin Falls KTFI 1240 1000 N	WW In
ILLINOIS	WFI
Bloomington WJBC 1200 100	WIR
Carthage	WLE
Champaign	WGI Ri WKI
WDWS 1370 100 Chicago	
Chicago WAAF 920 1000 WBBM 770 50000 C	So WFA WSB
WCBD 1080 5000 WCFL 970 5000 N WCRW 1210 100	Te WBC
WEDC 1210 100	WBA
WENR 870 50000 B	WDA
WGES 1360 500 WGN 720 50000M WJJD 1130 20000	1
WJJD 1130 20000 WLS 870 50000 B WMAQ 670 50000 R	-
WMBI 1080 5000 WSBC 1210 100	woi
Cicero WHFC 1420 100	Bo KFG
Decatur WJBL 1200 100 East Dubuque	Ce WM'
WKBB 1500 100 C	woo
East St. Louis WTMV 1500 100 Calesburg	De KGC KWI
Galesburg WGIL 1500 259 Harrisburg	De
Harrisburg WEBQ 1210 100 Joliet	De KRN KSO WHC
WCLS 1310 100 Peoria WMBD 1440 1000 C	Du KDT
WMBD 1440 1000 C Quincy WTAD 900 1000	lov WSU
WIAD 900 1000	1 "30

Rockf WROK	ord 1410	500
Rock WHBF		
Sprin: WCBS WTAX	gfield 1420 1210	100
WTAX Tusco WDZ	la	100
VDZ Urban VILL	1020	250 1000
	DIAN	Α
Ander VHBU	son 1210	100
Elkha VTRC	rt 1310	100
Evans VEOA VGBF	ville 1370 630	100 C 500 N
Fort V VGL VOWO	Wayne 1370	100 N
VÕWO Gary VIND	1100	10000 D
	560 nond	1000
Hamn VHIP VWAE	1480 1200	5000 100
India: VFBM VGVA	1230 1050	1000 C
VGVA VIRE Munc	1400	1000 R
Munc VLBC New A VGRC	1310 Albany	100 ,
VGRC Richm VKBV	1370 10nd	
VKBV South	1500 Bend	100
South VFAM VSBT	1200 1360	100 500
Terre VBOW West	1310 Lafava	100 N
West 1 VBAA	890	500
I	OWA	
Ames VOI	640	5000
Boone CFGQ		100
Cedar VMT	Rapid 600	
Daven VOC		100 C
Decora GCA WLC	ah 1270 1270	100
Des M RNT SO	1270 Ioines 1320	100
ию	1000 3	1000 C 500 B 5000 R
Dubuc DTM		500
Iowa (VSUI	City 880	500

Marshalltown	I
KFJB 1200 100 Mason City	KP N
KGLO 1210 100 C Shenandoah KFNF 890 500	KN
KMA 930-1000 I	WE
Sioux City KSCJ 1380 1000 C KTRI 1420 100	WJ WS WV
	KR
KANSAS Abilene	KT KV
KFBI 1050 5000 Coffeyville	
KGGF 1010 1000M Dodge City	A
KGNO 1340 250 Garden City	WF F
KIUL 1210 100 Great Bend	WA WI
KVGB 1370 100	F WC WC
Hutchinson KWBG 1420 100 Kansas City	WC F WA
KCKN 1310 100 (
Lawrence KFKU 1220 1000 WREN 1220 1000 B	
Manhattan KSAC 580 500	WB WB
Pittsburg KOAM 790 1000 N	WE
Salina KSAL 1500 100	WC
Topeka WIBW 580 1000 C	w3
Wichita KANS 1210 100 B	WI F
KFH 1300 1000 C	WF H
KENTUCKY	wj s
Ashland WCMI 1310 100	wš
Covington WCKY 1490 10000 N	M
Lexington WLAP 1420 100	B
Louisville WAVE 940 1000 N WHAS 820 50000 C	WA WB WC
Middleshoro	WE WH
WLMU 1210 100 Owensboro	WN WN WO
WOMI 1500 100 Paducah	F WS
WPAD 1420 100	- G WH
LOUISIANA	WL
Alexandria KALB 1210 100	WL WL
Baton Rouge WJBO 1120 500 B	WN
Lafayette KVOL 1310 100	P WB

Lake KPLC	Charl	es
Monr	oe	
KMLB	1200	100
New WBNO	1200	18 100
W/DGTT	1200 1250 1200	1000 B 100
WJBW WSMB WWL	1320	1000 R
	850	10000 C
Shrev KRMD	1310	100
KRMD KTBS KWKH	$1450 \\ 1100$	1000 N 10000 C
	MAIN	E
Augus WRDO		100M
Bango	pr 1200	100
Bango WABI WLBZ	620	500 C
Portla WCSH	ind 940	1000 R
WCSH WGAN	640	500
Presq WAGM	ue Isl 1420	e 100
MA	RYLA	ND
Baltir	nore	
WBAL	760 1060	2500 B 10000 B
WCAO	600	500 C
WCAO WCBM WFBR	1370 1270	100 500 R
Colleg W3XJ	1060	100
Cumb WTBO	erlan 800	d 250
Frede WFMD	rick 900	500
Hager	stown	
WJEJ Salisb	1210	50
WSAL	1200	250
MASSA	(111)	awrene
MASSA	GHU	SETTS
Bosto	n 1410	500 M
WAAB WBZ	990	50000 B
WCOP	1120 590	500 1000 C
WHDH	830	1000
WEEI WHDH WMEX WNAC	1500 1230 920	100 1000 r
WORL	920	1000 R 500
Fall R WSAR Green WHAI	tiver 1450	1000 M
Green WHAI	fleld 1210	250
Lawre WLAW	nce 680	1000
WLLH Lowel	1370	100
	13/0	100M
New I WNEH	3edfor 1310	d 160 M
Pittsfi WBRK	eld	
WBRK	1310	100 C

Springfield WBZA 990 1000 B	St. Paul KSTP 1460 10000 R WMIN 1370 100	Wolf Point KGCX 1450 1000	Gallup KAWM 1500 100
WMAS 1420 100 C WSPR 1140 500M Worcester	WMIN 1370 100 Virginia WHLB 1370 100 C	NEBRASKA	Hobbs KWEW 1500 100
WORC 1280 500 C WTAG 580 1000 R	Winona KWNO 1200 250	Clay Center	Roswell KGFL 1370 100
		KMMJ 740 1000 Kearney	Santa Fe KRQA 1310 100
MICHIGAN	MISSISSIPPI	KGFW 1310 100 Lincoln	
Battle Creek WELL 1420 100	Grenada WGRM 1210 100	KFAB 770 10000 C KFOR 1210 100 C	NEW YORK
Bay City	Gulfport WGCM 1210 100	Norfolk WJAG 1060 1000	Albany
WBCM 1410 500 Calumet	Hattiesburg WFOR 1370 100	North Platte KGNF 1430 1000	WABY 1370 100 WOKO 1430 500 C
WHDF 1370 100	Jackson WJDX 1270 1000 R	Omaha	Auburn WMBO 1310 100
Detroit VJBK 1500 100	Kosciusko	KOIL 1260 1000 B WAAW 660 500	Binghamton
VJR 750 50000 C VMBC 1420 100	WHEF 1500 100 Laurel	WOW 590 1000 R	WNBF 1500 100 C
VWJ 920 5000 R	WAML 1310 100 Meridian	Scottsbluff KGKY 1500 100	Brooklyn WARD 1400 500
WXYZ 1240 1000 B East Lansing	WCOC 880 500 C		WBBC 1400 500 WBBR 1300 1000
VKAR 850 1000 Flint	Vicksburg WOBC 1360 1000	NEVADA	WCNW 1500 100
VFDF 1310 100		Reno	WLTH 1400 500 WMBO 1500 100
Grand Rapids VASH 1270 500 N	MISSOURI	KOH 1380 500 C	WVFW 1400 500
VOOD 1270 500 N	Cape Girardeau KFVS 1210 100	NEW HAMPSHIRE	Buffalo WBEN 900 1000 F
Ironwood VJMS 1420 100	Columbia		WBNY 1370 100 WEBR 1310 100 F
Jackson VIBM 1370 100	KFRU 630 500 Jefferson City	Laconia WLNH 1310 100M	WGR 550 1000 (
Kalamazoo	KWOS 1310 100	Manchester	WKBW 1480 5000 (WSVS 1370 50
VKZO 590 1000 B Lansing	Joplin WMBH 1420 100	WFEA 1340 500 N Portsmouth	Canton WCAD 1220 500
VJIM 1210 100	Kansas City KCMO 1370 100	WIEB 740 250	Elmira
Lapeer VMPC 1200 100	KMBC 950 1000 C	NEW LEDGEN	WESG 850 1000 (Freeport
Marquette VBEO 1310 100	KXBY 1530 1000 WDAF 610 1000 R	NEW JERSEY	WGBB 1210 100 Jamestown
Muskegon VKBZ 1500 100	WHB 860 1000M Poplar Bluff	Asbury Park WCAP 1280 500	WJTN 1210 100 E
Port Huron VHLS 1370 250	KWOC 1310 100 St. Joseph	Atlantic City WPG 1100 5000 C	Newburgh WGNY 1210 100
Royal Oak	KFEQ 680 2500	Bridgeton	New York WABC 860 50000 (
Saginaw	St. Louis KFUO 550 500	WSNJ 1210 100	WBIL 1100 5000 WBNX 1350 1000
VHÁL 95 0 500	KMOX 1090 50000 C KSD 550 1000 R	Camden WCAM 1280 500	WBOO 860 50000
MININGOTA	KWK 1350 1000 B	Jersey City	WEAF 660 50000 R WEVD 1300 1000
MINNESOTA	KXOK 1250 1000 WEW 760 1000	WAAT 940 500 WHOM 1450 250	WFAB 1300 1000 WHN 1010 1000
Albert Lea IATE 1420 250	WIL 1200 100 Springfield	Newark	WINS 1180 1000
Duluth	KGBX 1230 500 N	WHBI 1250 1000 WOR 710 50000M	WJZ 760 50000 E WMCA 570 1000
CDAL 1500 100 C VEBC 1290 1000 N /	KWTO 560 5000	Red Bank	WNEW 1250 1000 WNYC 810 1000
Fergus Falls	MONTANA	WBRB 1210 100	WOV 1130 1000
GDE 1200 100 Hibbing	Billings	Trenton WTNJ 1280 500	WQXR 1550 1000 Olean
VMFG 1210 100 Mankato	KGHL 780 1000 N Bozeman	Whippany	WHDL 1400 250
YSM 1500 100	1420 100	W3XDD 50000 Zarephath	Plattsburg WMFF 1310 100
Minneapolis VCCO 810 50000 C	Butte KGIR 1340 1000 N	WAWZ 1350 500	Rochester
VDGY 1180 1000 C VLB 1250 1000	Great Falls KFBB 1280 1000 C		WHAM 1150 50000 B WHEC 1430 500 C
VTCN 1250 1000 B	Helena	NEW MEXICO	WSAY 1210 100
Moorhead WOX 1310 100	KPFA 1210 100 N Kalispell	Albuquerque KGGM 1230 1000	Saranac Lake WNBZ 1290 100
Northfield VCAL 1250 1000	KGEZ 1310 100	KOB 1180 10000 N	Schenectady
Rochester	Lewistown KDNC 1200 100	Carlsbad KLAH 1210 100	WGY 790 50000 R
CROC 1310 100 St. Cloud	Missoula	Clovis	Syracuse WFBL 1360 1000 C
KFAM 1420 100	KGVO 1260 1000 C	KICA 1370 100	WSYR 570 1000 B

RORITI	Himbleten 21 of		
Troy WHAZ 1300 1000	WSAI 1330 1000 N W8XO 700 500000	Portland KALE 1300 1000M	York WORK 1320 1000 N
Utica	Cleveland WCLE 610 500M	KBPS 1420 100 KEX 1180 5000 B	PUERTO RICO
WIBX 1200 100 C	WGAR 1450 500 C	KGW 620 1000 R KOIN 940 1000 C	
Watertown WNNY 1420 100 White Plains	WHK 1390 1000 B WTAM 1070 50000 R	KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100	Mayaguez WPRA 1370 100 Ponce
WFAS 1210 100	Columbus WBNS 1430 1000 C	Roseburg	WPRP 1420 100
Woodside	WCOL 1210 100 N	KRNR 1500 100M	San Juan WKAQ 1240 1000
WWRL 1500 100	WHKC 640 500M WOSU 570 750	Salem KSLM 1370 100M	WNEL 1290 1000
NORTH CAROLINA	Dayton WHIO 1260 1000 C		RHODE ISLAND
Asheville	WSMK 1380 200 C	PENNS YLVANIA	Providence WEAN 780 1000M
WWNC 570 1000 N Charlotte	Lima WBLY 1210 100		WEAN 780 1000M WJAR 890 1000R
WBT 1080 50000 C	Portsmouth	Allentown WCBA 1440 500	WPRO 630 500 C
WSOC 1210 100 N Durham	WPAY 1370 100	WSAN 1440 500 N	
WDNC 1500 100 C	Toledo WSPD 1340 1000 B	Altoona WFBG 1310 100	SOUTH CAROLINA
Greensboro WBIG 1440 1000 C	WTOL 1200 100	Easton	Anderson
High Point	Youngstown WKBN 570 500 C	WEST 1200 100	WAIM 1200 100 C Charleston
WMFR 1200 100 Kinston	WKBN 570 500 C Zanesville	Erie WLEU 1420 100 B	WCSC 1360 500 N
WFTC 1200 100	WALR 1210 100	WLEU 1420 100 B Glenside	Columbia WIS 560 1000 N
Raleigh WPTF 680 5000 N		WIBG 970 100	Florence
Rocky Mount	OKLAHOMA	Greensburg	WOLS 1200 100
WEED 1420 100	Ada	WHJB 620 250 C	Greenville WFBC 1300 1000 N
Wilmington WMFD 1370 100	KADA 1200 100M Ardmore	Grove City WSAJ 1310 100	Spartanburg WSPA 920 1000
Wilson	KVSO 1210 100M	Harrisburg WHP 1430 500 C	
WGTM 1310 100 Winston-Salem	Elk City KASA 1210 100	WKBO 1200 100	SOUTH DAKOTA
WAIR 1250 250	Enid KCRC 1360 250M	Hazleton WAZL 1420 100	Aberdeen KABR 1420 100
WSJS 1310 100 C	Muskogee	Johnstown	KABR 1420 100 Brookings
NORTH DAVOTA	KBIX 1500 100M Norman	WJAC 1310 100	KFDY 780 1000
NORTH DAKOTA	WNAD 1010 1000	Lancaster WGAL 1500 100	Huron KGDY 1340 250
Bismarck	Oklahoma City KFXR 1310 100	New Castle	Pierre KGFX 630 200
KFYR 550 1000 N	KOMA 1480 5000 C	WKST 1250 250	Rapid City
Devils Lake KDLR 1210 100	KTOK 1370 100M WKY 900 1000 N	Philadelphia KYW 1020 10000 R	KOBH 1370 100
	Okmulgee	WCAU 1170 50000 C	WCAT 1200 100 Sioux Falls
Fargo WDAY 940 1000 N	KHBG 1210 100 Ponca City	WDAS 1370 100	KELO 1200 100 N
Grand Forks KFJM 1410 500	WBBZ 1200 100M	WFIL 560 1000 B WHAT 1310 100	KSOO 1110 2500 N Vermillion
KFJM 1410 500 Jamestown	Shawnee	WIP 610 1000	KUSD 890 500
KRMC 1370 100	KGFF 1420 100M	WPEN 920 1000 WRAX 920 1000	Watertown KWTN 1210 100
Mandan	Tulsa KTUL 1400 500 C	WTEL 1310 100	KWTN 1210 100 Yankton
KGCU 1240 250 Minot	KVOO 1140 25000 N	Pittsburgh KDKA 980 50000 B	WNAX 570 1000 C
KLPM 1240 250		KQV 1380 500 C	TENNESSEE
Valley City KOVC 1500 100	OREGON	WCAE 1220 1000 R WJAS 1290 1000 C	
KUVC 1300 100	Astoria	WWSW 1500 100 Reading	Bristol WOPI 1500 100
OHIO	KAST 1370 100	WEEU 830 1000	Chattanooga
	Corvallis KOAC 550 1000	WRAW 1310 100 Scranton	WAPO 1420 100 WDOD 1280 1000 C
Akron WADC 1320 1000 C	Eugene	WGBI 880 500	Jackson
WJW 1210 100	KORE 1420 100M	WQAN 880 500	WTJS 1310 100
Ashtabula	Klamath Falls KEJI 1210 100	Sunbury WKOK 1210 100	Knoxville
WICA 940 250	La Grande	Uniontown	WNOX 1010 1000 (WROL 1310 100 N
Canton WHBC 1200 100	KLBM 1420 100	WMBS 1420 250 Wilkes-Barre	Memphis
Cincinnati	Marshfield	WBAX 1210 100M	WHBQ 1370 100
WCPO 1200 100	KOOS 1200 100	WBRE 1310 100 N	WMC 780 1000 F WMPS 1430 500 F
WKRC 550 1000 C WLW 700 500000 N	Medford KMED 1410 250 N	Williamsport WRAK 1370 100	WREC 600 1000 (
WLW 700 500000 N			· · · · · · · · · · · · · · · · · · ·

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Nashville WLAC 1470 5000 C	San Angelo KGKL 1370 100	Bellingham KVOS 1200 100M	WISN 1120 250 C
WSIX 1210 100	San Antonio	Centralia	WTMJ 620 1000 N Poynette
WSM 650 50000 N	KABC 1420 100 KMAC 1370 100	KELA 1440 500M Everett	W1BU 1210 100 Racine
TEXAS	KONO 1370 100 KTSA 550 1000 C	KRKO 1370 50	WRJN 1370 100 Rice Lake
Abilene KRBC 1420 100	WOA1 1190 50000 N Sherman	KWLK 780 250	1210 100 Sheboygan
Amarillo	KRRV 1310 250	Olympia KGY 1210 100M	WHBL 1300 250
KGNC 1410 1000 N Austin	Temple KTEM 1370 250	Puliman KWSC 1220 1000	Stevens Point WLBL 900 5000
KNOW 1500 100 C	Texarkana KCMC 1420 100	Seattle KEEN 1370 100	Superior WDSM 1200 100
KTBC 1120 1000 Beaumont	Tyler KGKB 1500 100	KIRO 710 1000 C KJR 970 5000 B	Wausau
KFDM 560 500 N KR1C 1420 100	Waco WACO 1420 100 C	KOL 1270 1000M	WSAU 1370 100
Big Spring	Weslaco	KOMO 920 1000 R KRSC 1120 250	WYOMING
KBST 1500 100 Brady	KRGV 1260 1000 N Wichita Falls	KTW 1220 1000 KXA 760 250	Casper KDFN 1440 500
KNEL 1500 250	KGKO 570 250 N	Spokane KFIO 1120 100	Rock Springs
Brownsville KGFI 1500 100	UTAH	KFPY 890 1000 C	KVRS 1370 100 Sheridan
College Station	Cedar City KSUB 1310 100	KHQ 590 1000 R	KWYO 1370 100
WTAW 1120 500 Corpus Christi	Logan	Tacoma KMO 1330 1000M	BAHAMAS
KRIS 1330 500 N	KVNU 1500 100 Ogden	KVI 570 1000 C Walla Walla	Nassau
Corsicana KAND 1310 100	KLO 1400 500 B Price	KUJ 1370 100 Wenatchee	ZNS 540 400
Dallas KRLD 1040 10000 C	KEUB 1420 100 Salt Lake City	KPQ 1500 100M	CANADA
WFAA 800 50000 N WRR 1280 500M	KDYL 1290 1000 R KSL 1130 50000 C	Yakima KIT 1250 250M	ALBERTA
Denton	КUTA 1500 100		Calgary
KDNT 1420 100 Dublin	VERMONT	WEST VIRGINIA	CFAC 930 1000 F CFCN 1030 10000 F
KFPL 1310 100 El Paso	Burlington	Bluefield WHIS 1410 500	CJCJ 690 100 F Edmonton
KROD 1500 100 KTSM 1310 100 N	WCAX 1200 100 Rutland	Charleston WCHS 580 500 C	CFRN 960 100 F
WDAH 1310 100 Fort Worth	WSYB 1500 100 St. Albans	Clarksburg	CJCA 730 1000 F CKUA 580 500 F
KFJZ 1370 100 KTAT 1240 1000M	WODM 1390 1000 Springfield	WBLK 1370 100 Fairmont	Grande Prairie CFGP 1200 100
WBAP 800 50000 N Galveston	WNBX 1260 500 C Waterbury	WMMN 890 500 C Huntington	Lethbridge
KLUF 1370 100	WDEV 550 500	WSAZ 1190 1000 Parkersburg	CJOC 950 100 F
Greenville KGVL 1200 100	VIRGINIA	WPAR 1420 100 C Wheeling	BRIT. COLUMBIA
Houston KPRC 920 1000 R	Charlottesville	WWVA 1160 5000 C	Chilliwack CHWK 780 100 F
KTRH 1290 1000 C KXYZ 1440 1000 B	WCHV 1420 100 Danville		Kamloops
Kilgore KOCA 1210 100	WBTM 1370 100 Harrisonburg	WISCONSIN	CFJC 880 1000 F Kelowna
Laredo KPAB 1500 100	WSVA 550 500	Eau Claire	CKOV 630 100 F Prince Rupert
Longview KFRO 1370 250	Lynchburg WLVA 1200 100	WEAU 1050 1000 Fond du Lac	CFPR 580 50 Trail
Lubbock	Newport News WGH 1310 100	KFIZ 1420 100	CJAT 910 1000 F
KFYO 1310 100 Lufkin	Norfolk WTAR 780 1000 N	Green Bay WHBY 1200 100	CBR 1100 5000 F
KRBA 1310 100 Midland	Richmond	WTAQ 1330 1000 C Janesville	CJOR 600 500 CKCD 1010 100
KRLH 1420 100 Palasting	WBBL 1210 100 WMBG 1350 500 R	WCLO 1200 100	CKFC 1410 50 CKMO 1410 100
Palestine KNET 1420 100	WRNL 880 500 WRTD 1500 100 B	LaCrosse WKBH 1380 1000 C	CKWX 1010 100 Victoria
Pampa KPDN 1310 100	WRVA 1110 5000 C Roanoke	Madison	CFCT 1450 500
Paris KPLT 1500 250	WDBJ 930 1000 C	WHA 940 5000 WIBA 1280 1000 N	MANITOBA
Pecos KIUN 1420 100	WASHINGTON	Manitowoc WOMT 1210 100	Brandon
Port Arthur	Aberdeen KNPG 1210 100M	Milwaukee	CKX 1120 1000 F Flin Flon
KPAC 1260 500	KXRO 1310 100M	WEMP 1310 100	CFAR 1370 100

NORTH	AMERICAN D. C.	STATIONS DI 201	
Will make and	Windsor	Ciego de Avila	DOMINICAN
Winnipeg CJRC 630 500 F	CKLW 1030 5000 F	CMJH 1360 50	REPUBLIC
CKY 910 15000 F	Wingham	CMJI 1130 150	Trujillo
	CKNX 1200 100	CMJO 1180 50	HIT 1050 50
NEW BRUNSWICK		Cienfuegos	HIX 800 800
Decidentiation	PRINCE EDWARD	CMHJ 1160 175	HI7P 1300 25
Fredericton CFNB 550 500 F	ISLAND	CMHM 1450 100 CMHX 760 200	EL SALVADOR
CFNB 550 500 F Moncton	Charlottetown	Cruces	EL SALVADOR
CKCW 1370 100 F	CFCY 630 1000 F	CMHK 1330 250	San Salvador
St. John	CHCK 1310 50	Guantanamo	YSS 640 500
CHSJ 1120 500 F	Summerside	CMKS 960	GUATEMALA
N. W. TERRITORY	CHGS 1450 50 F	Havana	Guatemala City
II. W. TERRITORT	OUPPPC/	CMBC 950 10000	TGW 1520 1000
Aklavik	QUEBEC	CMBD 1260 500	TG1 1305
CJCU 1210 50	Chicoutimi	CMBF 770 10000	HONDUDAR
NOVA SCOTIA	CRCS 1120 100 F	CMBL 750 2500	HONDURAS
NOVA SCOTTA	Hull	CMBO 680 5000 CMBS 1170 150	Tegucigalpa
Glace Bay	CKCH 1210 100 F	CMBX 1070 500	HRN 1250 50
VAS 685 2000	Montreal	CMBY 970 150	MEXICO
Halifax	CBF 910 50000 N	CMBZ 1000 500	AGUASCALIENTES
CHNS 930 1000 F	CBM 1050 5000 F CFCF 600 500 B	CMC 1260 150	AGONDONDIENTES
Sydney CJCB 1240 1000 F	CHLP 1120 100 F	CMCA 1350 450 CMCB 1230 150	Aguascalientes
Wolfville	CKAC 730 5000 C	CMCD 630 250	XEBI 1000 25
CKIC 1010 50	New Carlisle	CMCF 810 600	BANK GALLBORNUL
Yarmouth	CHNC 960 1000 F	CMCG 680 1000	BAJA CALIFORNIA
CJLS 1310 100 F	Ouebec CHRC 580 100	CMCJ 1110 500	Mexicali
ONTARIO	CKCV 1310 100 F	CMCK 1030 5000 CMCL 730 10000	XEAA 750 200
UNTARIO	CRCK 950 1000 F	CMCL 730 10000 CMCM 850	XEAO 660 250
Brantford	Rimouski	CMCO 1200 250	Rosarito Beach
CKPC 930 100 F	CJBR 1030 1000 F	CMCQ 1410 5000	XERB 730 100000
Chatham	Sherbrooke	CMCR 1380	Tijuana
CFCO 630 100 F Cobalt	CHLT 1210 100	CMCU 1290 500 CMCW 1140 500	XEAC 980 1000
CKMC 1210 50	Three Rivers	CMCX 1380 150	XEAU 1320
Fort William	CHLN 1420 100	CMCY 570 5000	XEBG 820 1000 XEC 1150 100
CKPR 730 100 F	SASKATCHEWAN	CMK 720 3000	XELO 580 10000
Hamilton	Silbitilloni	CMOA 1440 150	XEMO 860 5000
CHML 1010 100 F	Moose Jaw	CMOX 1320 200 CMO 600 25000	XEOK 760 2500
CKOC 1120 500 F	CHAB 1200 100 F	CMW 880 1400	CHURTAINTA
Kenora	Prince Albert CKBI 1210 100 F	CMX 920 1000	CHIHUAHUA
1420 100	Regina	630 10000	Chihuahua
Kingston	CJRM 540 1000 F	Holguin	XEBU 1200 50
CFRC 1510 100 F	CKCK 1010 1000 F	CMFK 1460 250	XEFI 1440 250
London	Saskatoon CFOC 840 1000 F	СМКО 1280	Juarez
CFPL 730 100 F	CFOC 840 1000 F Yorkton	Manzanillo	XEFV 1210 100
North Bay CFCH 930 100 F	CJGX 1390 100 F	CMKM 1120 200	XEF 1450 100 XEJ 1020 1000
CJKL 1310 100 F		Matanzas	XEP 1160 500
CKGB 1420 100	COSTA RICA	CMGC 1400 150	Parral
Ottawa	Sam Jose	CMGF 1120 250 CMGH 790 500	XEAT 1210 250
CBO 880 1000 F	San Jose TIEP 880 1000	Moron	COAHUILA
CKCO 1010 100 F	TIPG 625 2000	CMJP 1430 75	COAHOILA
Owen Sound	TIX 650 1000	Pinar del Rio	Piedras Negras
1370 100 Prescott	0110.0	CMAB 1340 300	XEMU 580 250
CFLC 930 100	CUBA	Sagua la Grande	XEPN 730 100000
St. Catharines	Bayamo	CMHA 1070 50	Sabinas XEBX 640 250
CKTB 1200 100 F	CMKL 990	Sancti Spiritus	Saltillo
Sault Ste. Marie	Caibarien	CMHB 1240 50	XEAS 1160 100
CJIC 1500 100 F	CMHD 1270 250		XELA 1240 50
Stratford CJCS 1210 50	Camaguey CMJA 1010 300	Santa Clara	Torreon
CJCS 1210 50 Sudbury	CMJC 1390 150	CMHI 1210 150 CMHW 820 100	XETB 1310 125
CKSO 780 1000 F	CMJE 1220 50	CANTER 020 100	Villa Acuna
Toronto	CMJF 1150 200	Santiago	XEDH 1340 200 XERA 840 250000
CBL 840 50000 F	CMJK 780 250	CMKC 1250 150 CMKD 1050 250	XERA 840 250000
CFRB 690 10000 C	CMJO 1080 200	CMKD 1050 250 CMKG 1160	D. F.
CKCL 580 100 F CRCY 960 100 F	CMJW 1340 300 CMJX 830 500	CMKR 1400 100	
Waterloo	CMJA 830 500 Cardenas	CMKW 1350	Gral. Anaya
CKCR 1510 100	CMGE 1370 150	CMKX 1190	XEDA 1220 200
	l		

Mexico City	Leon	SINALOA	VERACRUZ
XEAI 1250 500 XEAL 660 1000 XEB 1030 10000	XEFM 1160 20 XEKL 1240 500	Mazatlan XEBL 1220 50	Cordoba XEAG 1310 10
XEBS 1340 200	JALISCO		Jalapa
XEBZ 810 100			XEXB 1270 250
XEDP 1080 500	Guadalajara	SONORA	XEXD 1340 350
XEFO 940 5000	XED 1160 2500		Minatitlan
XEJP 1130 100	Guzman	Cananea	XEDW 1150 20
XEJW 870 500	XEBA 1080 20	XEFQ 1010 50	Veracruz
XEK 890 100		Hermosillo	XETF 1220 12
XEL 1100 250	MICHOACAN	XEBH 930 500	XEU 1010 250
XELZ 1370 100			NUTLES A COM A DO
XEMX 1280 100	Morelia	Nogales	YUCATAN
XEN 780 1000	XEI 1370 125	XEAF 990 750	Merida
XENC 860 50		Obregon	XEFC 550 100
XEW 890 50000	NUEVO LEON	XEAP 1340 50	XEME 1240 50
XEXM 610 500		1010 00	XEZ 630 500
XEXS 1310 100	Monterrey		
	XEFB 870 200	TAMAULIPAS	ZACATECAS
	XEG 1230 250	TAMAOLIFAS	Zacatecas
XEYO 610 500	XEH 720 250		XEAZ 1230 200
Tacuba	XET 690 5000	Matamoros	
KEFA 1180 500	XEX 1310 125	XEAM 750 25	MIQUELON
Техсосо	KEAK TOTO TEO	Nuevo Laredo	St. Pierre
XEXE 1270 17	PUEBLA	XEBK 1080 100	FON 609 250
DURANGO	FUEBLA	XEDF 810 100	NEWFOUNDLAND
DORINGO	Puebla	XEFE 980 250	
Durango	XETH 1210 100	XENT 910 150000	St. John's
XEBP 1150 250	260 T 1010 100		VOAC 1065 40
XEE 1210 50	SAN LUIS POTOSI	Reynosa	VOAS 940 100
CHIANIA THATO		XEAW 960 100000	VOCM 1006 200
GUANAJUATO	San Luis Potosi	Tampico	VOGY 840 400
Irapuato	XECZ 1370 100	XEFW 1310 300	VONF 1195 500
XEBÓ 1310 25	XEXH 1250 250	XES 990 250	VOWR 681 500

NORTH AMERICAN B. C. STATIONS BY CALLS

CBF 910 50000	CFNB 550 500	CH5J 1120 500
Montreal, P. Q.	Fredericton, N. B	St. John, N. B.
CBL 840 50000	CFPL 730 100	CHWK 780 100
Toronto, Ont.	London, Ont.	Chilliwack, B. C.
CBM 1050 5000	CFPR 580 50	CJAT 910 1000
Montreal, P. Q.	Prince Rupert, B. C.	Trail, B. C.
CBO 880 1000	CFQC 840 1000	CJBR 1030 1000
Ottawa, Ont.	Saskatoon, Sask.	Rimouskí, P. Q.
CBR 1100 5000	CFRB 690 10000	CJCA 730 1000
Vancouver, B. C.	Toronto, Ont.	Edmonton, Alta.
CFAC 930 1000	CFRC 1510 100	CJCB 1240 1000
Calgary, Alta.	Klngston, Ont.	Sydney, N. S.
CFAR 1370 100	CFRN 960 100	CJCJ 690 100
Flin Flon, Man.	Edmonton, Alta.	Calgary, Alta.
CFCF 600 500	CHAB 1200 100	CJCS 1210 50
Montreal, Que,	Moose Jaw, Sask	Stratford, Ont.
CFCH 930 100	CHCK 1310 50	CJCU 1210 50
North Bay, Ont.	Charlottetown, P.E.I.	Aklavik, N. W. T.
CFCN 1030 10000	CHGS 1450 50	CJGX 1390 100
Calgary, Alta.	Summerside, P.E.J.	Yorkton, Sask.
CFCO 630 100	CHLN 1420 100	CJIC 1500 100
Chatham, Ont.	Three Rivers, P. Q.	S. Ste. Marie, Ont.
CFCT 1450 500	CHLP 1120 100	CJKL 1310 100
Victoria, B. C.	Montreal, Que.	North Bay, Ont.
CFCY 630 1000	CHLT 1210 100	CJLS 1310 100
Charlottetown, P.E.I.	Sherbrooke, P. Q.	Yarmouth, N. S.
CFGP 1200 100	CHML 1010 100	CJOC 950 100
Grande Prairie, Alta	Hamilton, Ont.	Lethbridge, Alta.
CFJC 880 1000	CHNC 960 1000	CJOR 600 500
Kamloops, B. C.	New Carlisle, Que.	Vancouver, B. C.
CFLC 930 100	CHNS 930 1000	CJRC 630 500
Prescott, Ont.	Halifax, N. S.	Winnipeg, Man.
	CHRC 580 100 Quebec, Que.	CJRM 540 1000 Regina, Sask

CKAC 730 5000 Montreal, Que.	CMBY 970 150 Havana, Cuba	CMJH 1360 50 Ciego de Avila, Cuba
CKBI 1210 100 Prince Albert, Sask.	CMBZ 1990 500 Havana, Cuba	CMJI 1130 150 Ciego de Avila, Cuba
CKCD 1010 100	CMC 1260 150	CMJK 780 250
Vancouver, B. C. CKCH 1210 100	Havana, Cuba CMCA 1350 450	Camaguey, Cuba CMJO 1180 50
Hull, Que. CKCK 1010 1000	Havana. Cuba CMCB 1230 150	Ciego de Avila, Cuba CMJP 1430 75
Regina, Sask CKCL 580 100	Havana, Cuba CMCD 630 250	Camaguey, Cuba CMJQ 1080 200
Toronto, Ont.	Havana, Cuba	Camaguey, Cuba
CKCO 1010 100 Ottawa, Ont.	CMCF 810 600 Havana, Cuba	CMJW 1340 300 Camaguey, Cuba
CKCR 1510 100 Waterloo, Ont.	CMCG 680 1000 Flavana, Cuba	CMJX 830 500 Camaguey, Cuba
EKCV 1310 100	CMCJ 1110 500	CMK 720 3000
Quebec, Que. CKCW 1370 100	Havana, Cuba CMCK 1030 5000	Havana, Cuba CMKC 1250 150
Moneton, N. B. CKFC 1410 50	Havana, Cuba CMCL 730 10000	Santiago, Cuba CMKD 1050 250
Vancouver, B. C.	Havana, Cuba	Santiago, Cuba
CKGB 1420 100 North Bay, Ont.	CMCM 850 Havana, Cuba	CMKF 1460 250 Holguin, Cuba
CKIC 1010 50 Wolfville, N. S.	CMCO 1200 250 Havana, Cuba	CMKG 1150 Santiago, Cuba
CKLW 1030 5000	CMCQ 1410 5000	CMKL 990
Windsor, Ont. CKMC 1210 50	CMCR 1380	Bayamo, Cuba CMKM 1120 200
Cobalt, Ont.	Havana, Cuba CMCU 1290 500	Manzanillo, Cuba CMKO 1280
Vancouver, B. C.	Havana, Cuba	Hoiguin, Cuba
CKNX 1200 100 Wingham, Ont.	CMCW 1140 500 Havana, Cuba	Santiago, Cuba
CKOC 1120 500 Hamilton, Ont.	CMCX 1380 150 Havana, Cuba	Guantanamo, Cuba
CKOV 630 100	CMCY 570 5000	CMKW 1350 Santiago, Cuba
Kelowna, B. C. CKPC 930 100	Havana, Cuba CMGC 1400 150	CMKX 1190
Brantford, Ont. CKPR 730 100	Matanzas, Cuba CMGE 1370 150	Santiago, Cuba CMOA 1440 150
Fort William, Ont.	Cardenas, Cuba	Havana, Cuba CMOX 1320 200
CKSO 780 1000 Sudbury, Ont.	CMGF 1120 250 Matanzas, Cuba	Havana, Cuba
CKTB 1200 100 St. Catharines, Ont.	CMGH 790 500 Matanzas, Cuba	CMQ 600 25000 Havana, Cuba
CKUA 580 500	CMHA 1070 50	CMW 880 1400 Havana, Cuba
Edmonton, Alta. CKWX 1010 100	CMHB 1240 50	CMX 920 1000
Vancouver, B. C. CKX 1120 1000	Sancti Spiritus, Cuba CMHD 1270 250	Havana, Cuba CRCK 950 1000
Brandon, Man.	Caibarien, Cuba	Quebec, Que. CRCS 1120 100
CKY 910 15000 Winnipeg. Man.	CMHI 1210 150 Santa Clara, Cuba	Chicoutimi, Que.
CMAB 1340 300 Pinar del Rio, Cuba	CMHJ 1160 175 Cienfuegos, Cuba	CRCY 960 100 Toronto, Ont.
CMBC 950 10000	CMHK 1330 250	FQN 609 250 St. Pierre, Miguelon
Havana, Cuba CMBD 1260 500	Cruces, Cuba CMHM 1450 100	HIT 1050 50
Havana, Cuba CMBF 770 10000	Cienfuegos, Cubs CMHW 820 100	Trujillo, D. R. HIX 800 800
Havana, Cuba	Santa Clara, Cuba	Trujillo, D. R.
CMBL 750 2500 Havana, Cuba	CMHX 760 200 Cientuegos, Cuba	HI7P 1300 25 Trujillo, D. R.
CMBQ 680 5000 Havana, Cuba	CMJA 1010 300 Camaguey, Cuba	HRN 1250 50 Tegucigalpa, Honduras
CMBS 1170 150	CMJC 1390 150	KABC 1420 100
Havana, Cuba CMBX 1070 500	Camaguey, Cuba CMJE 1220 50	San Antonio, Texas KABR 1420 100
Havana, Cuba	Camaguey, Cuba CMJF 1150 200	Aberdeen, S. Dak. KADA 1200 100
	Camaguey, Cuba	Ada, Okla

	KALB 1210 100 Alexandria, La.	KERN 1370 100 Bakerstield, Calif.	KFSG 1120 50 Los Angeles, Calif.
	KALE 1300 1000 Portland, Ore.	KEUB 1420 100	KFUO 550 50 St. Louis, Mo.
	KAND 1310 100	Price, Utab KEX 1180 5000	KFVD 1000 100
	Corsicana, Texas	Portland, Ore.	Los Angeles, Calif.
	KANS 1210 100 Wichita, Kans	KFAB 770 10000 Lincoln, Neb.	KFVS 1210 10 Cape Girardeau, Mo
	KARK 890 500	KFAC 1300 1006	KFWB 950 100
	Little Rock, Ark. KARM 1310 100	Los Angeles, Calif. KFAM 1420 100	Hollywood, Calif. KFXD 1200 1
	Fresno, Calif.	St. Cloud, Minn.	KFXD 1200 1 Nampa, Idaho
	KASA 1210 100	KFBB 1280 1000	KFXJ 1200 1
	Eik City, Okla. KAST 1370 100	Great Falls, Mont	Grand Junction, Colo. KFXM 1210 1
	Astoria, Ore.	Abilene, Kans.	San Bernardino, Calif.
	KATE 1420 250 Albert Lea, Minn.	KFBK 1490 10000	KFXR 1310 1
	KAWM 1500 100	KFDM 560 500	Oklahoma City, Okla. KFYO 1310 1
	Gallup, N. Mex.	Beaumont, Texas	Lubbock, Texas
	KBIX 1500 100 Muskogee, Okla.	KFDY 780 1000 Brookings, S. D.	KFYR 550 10 Bismarck, N. D.
	KBPS 1420 100	KFEL 920 500	KGA 1470 50
	Portland, Ore.	Denver, Colo.	Spokane, Wash
	KBST 1500 100 Big Spring, Texas	KFEQ 680 2500 St. Joseph, Mo.	KGAR 1370 1 Tueson, Ariz.
	KBTM 1200 100	KFGQ 1370 100	KGB 1330 10
	Jonesboro, Ark.	Boone, Iowa	San Diego, Calif.
	KCKN 1310 100 Kansas City, Kans.	KFH 1300 1000 Wichita, Kans.	KGBU 900 5 Ketchikan, Alaska
_	KCMC 1420 100	KFI 640 50000	KGBX 1230 5
	Texarkana, Texas KCMO 1370 100	Los Augeles, Calif. KFIO 1120 100	Springfield, Mo.
	Kansas City, Mo.	Spokane, Wash.	KGCA 1270 1 Decorab, Iowa
	KCRC 1360 250	KFIZ 1420 100	KGCI 1200 1
	Enid, Okla. KCRJ 1310 100	Fond du Lac, Wis	Coeur d'Alene, Idaho KGCU 1240 2
	Jerome, Ariz.	Marshalltown, Iowa	Mandan, N. D.
	KDAL 1500 100 Duluth, Minn.	KFJI 1210 100 Klamath Falls, Ore.	KGCX 1450 10 Wolf Point, Mont.
-	KDB 1500 100	KFJM 1410 500	KGDE 1200 1
	Santa Barbara, Calif. KDFN 1440 500	Grand Forks, N. D.	Fergus Falis, Minn.
	Casper, Wyo.	KFJZ 1370 100 Fort Worth, Texas	KGDM 1100 10 Stockton, Calif.
	KDKA 980 50000	KFKA 880 500	KGDY 1340 2
-	Pittsburgh, Pa. KDLR 1210 100	Greeley, Colo.	Huron, S. D.
	Devils Lake, N. D.	Lawrence, Kans.	KGEK 1200 1 Sterling, Colo.
	KDNC 1200 100	KFNF 890 500	KGER 1360 10
	Lewistown, Mont. KDNT 1420 100	KFOR 1210 100	Long Beach, Callf. KGEZ 1310 1
	Denton, Texas	Lincoln, Neb.	Kalispell, Mont.
	KDON 1210 100 Monterey, Calif.	KFOX 1250 1000	KGFF 1420 1
	KDTH 1340 500	Long Beach, Calif. KFPL 1310 100	KGFI 1500 1
	Dubuque, Iowa	Dublin, Texas	Brownsville, Tex.
	KDYL 1290 1000 Salt Lake City, Utah	KFPW 1210 100 Fort Smith, Ark.	KGFJ 1200 1 Los Angeles, Calif.
	KECA 1430 1000	KFPY 890 1000	KGFL 1370 10
	Los Angeles, Calif. KEEN 1370 100	Spokane, Wash. KFQD 780 250	Roswell, N. M. KGFW 1310 1
	Seattle, Wash.	Anchorage, Alaska	Kearney, Neb.
	KEHE 780 1000	KFRC 610 1000	KGFX 630 20
	Los Angeles, Calif. KELA 1440 500	San Francisco, Calif. KFRO 1370 250	Pierre, S. D. KGGC 1420 1
	Centralia, Wash	Longview, Texas	San Francisco, Calif.
	KELD 1370 100 El Dorado, Ark.	KFRU 630 500	KGGF 1010 10
	KELO 1200 100	Columbia, Mo. KFSD 600 1000	Coffeyville, Kans. KGGM 1230 100
	Sioux Falls, S. Dak.	San Diego, Calif.	Albuquerque, N. M.

 KGHF 1320	500	
 Pueblo, Colo. KGHI 1200	100	
 Little Rock, Ark. KGHL 780	1000	
 Billings, Mont. KGIR 1340	1000	
 Butte, Mont. KGIW 1420	100	
Alamosa, Colo.		
KGKB 1500 Tyler, Texas	100	
KGKL 1370 San Angelo, Texas	100	
KGKO 570 Wichita Falls, Texa	250	
KGKY 1500 Scottsbluff, Neb.	100	
KGLO 1210	100	
 Mason City, Iowa KGLU 1420	100	
 Safford, Ariz. KGMB 1320	1000	
 Honolulu, T. H. KGNC 1410	1000	
 Amarillo, Texas KGNF 1430	1000	
 North Platte, Neb.	,	
 KGNO 1340 Dodge City, Kans.	250	
KGO 790 San Francisco, Cali	7500 f.	
KGU 750 Honolulu, T. H.	2500	
KGVL 1200 Greenville, Texas	100	
KGVO 1260 Missoula, Mont.	1000	
 KGW 620	1000	
 Portland, Ore. KGY 1210	100	
 Olympia, Wash, KHBC 1400	250	
Hilo, T. H. KHBG 1210	100	
 Okmulgee, Okla. KHJ 900	1000	
 Los Angeles, Calif.		
 KHQ 590 Spokane, Wash.	1000	
Spokane, Wash. KHSL 1260 Chico, Calif.	250	
KHUB 1310	250	
KICA 1370 Clovis, N. M. KID 1320	100	
Idaho Falls Idaho	500	
 KIDO 1350 Boise, Idaho KIDW 1420 Lamar, Colo.	1000	
 KIDW 1420	100	
 KIEM 1450	500	
 Eureka, Calif. KIEV 850	250	
 Glendale, Calif. KINY 1310	100	
Juneau, Alaska	1000	
 Seattle, Wash.		
KIT 1250 Yakima, Wash,	250	

_	KIUL 1210 Garden City, Kans	100
	KIUN 1420	100
	Pecos, Texas KIUP 1370	100
	Duraugo, Colo. KJBS 1070	500
	San Francisco, Cali KJR 970	
	Seattle, Wash	
	KLAH 1210 Carisbad, N. Mex.	100
	KLBM 1420 La Grande, Ore.	100
	KLCN 1290 Blytheville, Ark.	100
	KLO 1400 Ogden, Utah	500
	KLPM 1240	250
	Minot, N. D. KLRA 1390	1000
	Little Rock, Ark. KLS 1280	250
	Oakland, Calif.	100
	KLUF 1370 Galveston, Texas KLX 880	
	Oakland, Call.	1000
	KLZ 560 Denver, Colo.	1000
	KMA 930 Shenandoah, Iowa	1000
	KMAC 1370	100
	San Antonio, Texas KMBC 950	1000
	Kansas City, Mo. KMED 1410	250
	Medford, Ore. KMJ 580	1000
	Fresno, Calif. KMLB 1200	100
	Monroe, La. KMMJ 740	1000
	Clay Center, Neb.	
	KMO 1330 Tacoma, Wash. KMOX 1090	1000
	KMOX 1090 St. Louis, Mo. KMPC 710	50000
	KMPC 710 Beverty Hilts, Calif.	500
-	KMTR 570 Los Angeles, Calif.	1000
	KNEL 1500	250
	KNET 1420	100
	Palestine, Texas KNOW 1500	100
	Austin, Texas KNX 1050	50000
	Los Angeles, Calif. KOA 830	50000
	Denver, Colo. KOAC 550	1000
	Corvallis, Ore.	
	Pittsburg, Kans.	1000
	Albuquerque, N. N	
	KOBH 1370 Rapid City, S. Dak	100

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	KOCA 1210 10	0
	Kilgore, Texas KOH 1380 50	0
	Reno, Nev.	
	KOIL 1260 100 Omaha, Neb. KOIN 940 100	0
	KOIN 940 100 Portland, Ore.	0
	КОКО 1370 10	0
	La Junta, Colo. KOL 1270 100	0
	Seattle, Wash. KOMA 1480 500	•
	Oklahoma City, Okla.	
Ĺ	Seattle, Wash.	0
	KONO 1370 10 San Antonio, Texas	0
	KOOS 1200 10	0
	Marshfield, Ore. KORE 1420 10	10
	Eugene, Ore. KOTN 1500 10	
	Pine Bluff Ark	
	KOVC 1500 10 Valley City, N. Dak.	0
	KOY 1390 100	10
	Phoenix, Ariz. KPAB 1500 10	0
	Laredo, Texas KPAC 1260 50	0
·	Port Arthur, Texas	
	KPDN 1310 10 Pampa, Texas	ľU
	KPFA 1210 10 Helena, Mont.	0
_	KPFA121010Helena, Mont.KPLC1500Lake Charles, La.	0
	KPLT 1500 10	0
	Paris, Texas KPMC 1550 100	0
	Bakersfield, Callf. KPO 680 5000	
	San Francisco, Calif.	
	KPOF 880 100 Denver, Colo.	10
	Denver, Colo. KPPC 1210 10 Pasadena, Calif.	0
	KPO 1500 10	10
	Wenatchee, Wash. KPRC 920 100	10
	Houston, Texas KQV 1380 50	10
	Pittsburgh, Pa.	
	KQW 1010 100 San Jose, Calif.	0
	KRBA 1310 10 Lufkin, Texas	00
	KPPC 1420 10	10
	Abilene, Texas KRE 1370 10	0
	KRE 1370 10 Berkeley, Calif. KRGV 1260 100 Westaco Tayas	10
	in conded, i cado	
	Beaumont, Texas	
	KRIS 1330 50 Corpus Christi, Tex.	10
	KRKD 1120 50	0
	Los Angeles, Calif.	

	KRKO 1370 50		KTHS 1060 10000	KWK 1350 1000
	Everett, Wash. KRLC 1390 250		Hot Springs, Ark. KTKC 1190 250	St. Louis, Mo. KWKH 1100 10000
	Lewiston, Idaho		Visalia, Calif.	Shreveport, La.
	KRLD 1040 10000		KTMS 1220 500	KWLC 1270 100
	Dallas, Texas KRLH 1420 100	-	Santa Barbara, Calif. KTOK 1370 100	Decorah, Iowa KWLK 780 250
·	Midland, Texas		Oklahoma City, Okla.	Longview, Wash.
	KRMC 1370 100		KTRB 740 250	KWNO 1200 250
	Jamestown, N. Dak. KRMD 1310 100		Modesto, Calif. KTRH 1290 1000	Winona, Minn. KWOC 1310 100
	Shreveport, La.		Houston, Texas	Poplar Bluff, Mo.
	KRNR 1500 100		KTRI 1420 100	KWO5 1310 100
	Roseburg, Ore. KRNT 1320 1000		Sioux City, Iowa KTSA 550 1000	Jefferson City, Mo. KWSC 1220 1000
	KRNT 1320 1000 Des Moines, Iowa		San Antonio, Texas	Pullman, Wash.
	KROC 1310 100		KTSM 1310 100	KWTN 1210 100
	Rochester, Minn.	L	El Paso, Texas	Watertown, S. Dak.
	KROD 1500 100 El Paso, Texas		KTUL 1400 500 Tulsa, Okia.	KWTO 560 5000
	KROW 930 1000		KTW 1220 1000	Springfield, Mo. KWYO 1370 100
	Oakland, Calif.		Seattle, Wash.	Sheridan, Wyo.
	KROY 1210 100 Sacramento, Calif.		KUJ 1370 100	KXA 760 250
	KRQA 1310 100	-	Walla Walla, Wash. KUMA 1420 100	Seattle, Wash. KXBY 1530 1000
	Santa Fe, N. Mex.		Yuma, Ariz.	Kansas City, Mo.
	KRRV 1310 250		KUOA 1260 5000	KXL 1420 100
	Sherman, Texas KRSC 1120 250		Siloam Springs, Ark. KUSD 890 500	Portland, Ore. KXO 1500 100
	Seattle, Wash.		Vermillion, S. Dak.	El Centro, Calif.
	KSAC 580 500		KUTA 1500 100	KXOK 1250 1000
	Manhattan, Kans. KSAL 1500 100		Salt Lake City, Utah KVCV 1200 100	St. Louis, Mo. KXRO 1310 100
	Salina, Kans.		Redding, Calif.	Aberdeen, Wash.
	KSCJ 1330 1000		KVEC 1200 250	KXYZ 1440 1000
	Sioux City, Iowa		San Luis Obispo, Cal.	Houston, Texas KYA 1230 1000
	KSD 550 1000 St. Louis, Mo.		KVGB 1370 - 100 Great Bend, Kans.	KYA 1230 1000 San Francisco, Calif.
	KSEI 900 250	-	KVI 570 1000	KYOS 1040 250
	Pocatello, Idaho	1	Tacoma, Wash.	Merced, Calif.
	KSFO 560 1000 San Francisco, Calif.		KVNU 1500 100 Logan, Utah	KYSM 1500 100 Mankato, Minn.
-	KSL 1130 50000		KVOA 1260 1000	KYW 1020 10000
	Salt Lake City, Utah		Tucson, Ariz.	Philadelphia, Pa.
	KSLM 1370 100 Salem, Ore.		KVOD 920 500 Denver, Colo.	TGW 1520 1000 Guatemala City, Guat.
	KSO 1430 500		KVOE 1500 100	TG1 1305
	Des Moines, Iowa	·	Santa Ana, Calif.	Guatemala City, Guat.
	KSOO 1110 2500		KVOL 1310 100 Lafayette, La.	TIEP 880 1000 San Jose, Costa Rica
-	Sloux Falls, S. Dak. KSRO 1310 250		KVOO 1140 25000	TIPG 625 2000
	Santa Rosa, Calif.		Tulsa, Okla.	San Jose, Costa Rica
	KSTP 1460 10000		KVOR 1270 1000 Colorado Springs, Colo.	TIX 650 1000
	St. Paul, Minn. KSUB 1310 100	-	KVOS 1200 100	San Jose, Costa Rica VAS 685 2000
	Cedar City, Utah		Bellingham, Wash	Glace Bay, N. S.
	KSUN 1200 100		KVOX 1310 100	VOAC 1065 40
	Lowell, Ariz. KTAR 620 1000		Moorhead, Minn. KVRS 1370 100	St. John's, Nfid. VOAS 940 100
	Phoenix, Ariz.		Rock Springs, Wyo.	St. John's, Nfld.
	KTAT 1240 1000		KVSO 1210 100	VOCM 1006 200
	Fort Worth, Texas KTBC 1120 1000	-	Ardmore, Okla. KWBG 1420 100	St. John's, Nfld. VOGY 840 400
	Austin, Texas		Hutchinson, Kans.	St. John's, Nfld.
	KTBS 1450 1000		KWEW 1500 100	VONF 1195 500
	Shreveport, La. KTEM 1370 250		Hobbs, N. Mex. KWG 1200 100	St. John's, Nfld.
	KTEM 1370 250 Temple, Texas		Stockton, Calif.	St. John's, Nfld.
	KTFI 1240 1000		KWJB 1210 100	WAAB 1410 500
	Twin Falls, Idaho		Globe, Ariz. KWJJ 1040 500	Boston, Mass.
			Portland, Ore.	

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	WAAF 920 1000	
	Chicago, Ill. WAAT 940 500	-
-	Jersey City, N. J. WAAW 660 500	-
	Omaha, Neb.	
	New York, N. Y.	1
	WABI 1200 100 Bangor, Maine	
	WABY 1370 100	
	Albany, N. Y. WACO 1420 100	-
<u> </u>	WACO 1420 100 Waco, Texas WADC 1320 1000	\vdash
	Akron, Onio	
	WAGA 1450 500 Atlanta, Ga.	
	WAGF 1370 250	
	Dothan, Ala. WAGM 1420 100	
	Presque Isle, Me. WAIM 1200 100	
	Anderson, S. C. WAIR 1250 250	
L	Winston-Salem, N. C.	_
	WALA 1380 500 Mobile, Ala.	
	WALR 1210 100 Zanesville, Ohio	
	WAML 1310 100	
	Laurel, Miss. WAPI 1140 5000	
	WAPI 1140 5000 Birmingham, Ala. WAPO 1420 100	
	Chattanooga, Tenn.	
	WARD 1400 500 Brooklyn, N. Y.	
	WASH 1270 500 Grand Rapids, Mich.	
	WATL 1370 100	
	Atlanta, Ga. WATR 1190 100	
	Waterbury, Conn. WAVE 940 1000	
	Louisville, Ky.	<u> </u>
	Zarephath, N. J.	
	WAYX 1200 100 Waycross, Ga.	
	WAZL 1420 100	
	Hazleton, Pa. WBAA 890 500	-
	West Lafayette, Ind. WBAL 760 2500	-
	Baltimore, Md. WBAL 1060 10000	
	Baitimore, Md.	
	Fort Worth, Texas	
	WBAX 1210 100 Wilkes-Barre, Pa.	
	WRRC 1400 500	-
	Brooklyn, N. Y. WBBL 1210 100	-
	WBBL 1210 100 Richmond, Va. WBBM 770 50000	-
	Chicago, III.	
	WBBR 1300 1000 Brooklyn, N. Y	
	1	L

	WBBZ 1200 Ponca City, Okia.	100
	WRCM 1410	500
	Bay City, Mich. WBEN 900	1000
	Buffalo, N. Y.	
	WBEO 1310 Marquette, Mich.	
	WBHP 1200 Huntsville, Ala.	100
	WBIG 1440 Greensboro, N. C	1000
	WBIL 1100	5000
	New York, N. Y. WBLK 1370	100
	Clarksburg, W. V	a. 100
	WBLY 1210 Lima, Ohio	
	WBNO 1200 New Orleans, La.	100
	WRNS 1430	1000
	Columbus, Ohio WBNX 1350 New York, N. Y	1900
	WBNY 1370	100
	New York, N. Y WBNY 1370 Buffalo, N. Y. WBOQ 860	50000
	New York, N. Y.	
	WBOW 1310 Terre Haute, Ind.	100
	WBRB 1210	100
	Red Bank, N. J. WBRC 930	1000
	Birmingham Ala. WBRE 1310	100
	Wilkes-Barre, Pa. WBRK 1310	100
	Pittsfield, Mass.	
	WBRY 1530 Waterbury, Conn.	1000
	WBT 1080 Charlotte, N. C.	50000
	WBTM 1370 Danville, Va.	100
	WBZ 990	50000
	WBZ 990 Boston, Mass. WBZA 990	1000
	Springfield, Mass. WCAD 1220	500
	Canton, N. Y. WCAE 1220	
	Pittsburgh, Pa.	1000
	WCAL 1250 Northfield, Minn.	1000
	WCAM 1280	500
	Camden, N. J. WCAO 600 Baltimore, Md.	50 0
	WCAP 1280	500
	Asbury Park, N. J WCAT 1200	100
-	Rapid City, S. Da	к.
	WCAU 1170 Philadelphia, Pa.	50000
	WCAX 1200 Burlington, Vt.	100
		100
-	WCAZ 1070 Carthage, Ill. WCBA 1440 Allentown Pa	500
	Allentown, Pa.	

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	WCBD 1080	5000
	Chicago, Ill. WCBM 1370	100
	Baltimore, Md.	100
	WCBS 1420	100
	Springfield, Ill. WCCO 810	50000
-	Minneapolis, Min	
	WCFL 970 Chicago, Ill.	5000
	WCHS 580	500
	Charleston, W. V WCHV 1420	100
	Charlottesville, V	а.
	WCKY 1490 Covington, Ky.	10000
	WCLE 610 Cleveland, Ohio	500
-	WCLO 1200	100
	Janesville, Wis.	
	WCLS 1310 Joliet, Ill.	100
	WCMI 1310	100
	Ashland Ky. WCNW 1500	100
_	Brooklyn, N. Y.	
	WCOA 1340 Pensacola, Fla.	500
	WCOC 880	500
_	Meridian, Miss. WCOL 1210	100
	Columbus, Ohio	100
	WCOP 1120	500
	Boston, Mass. WCPO 1200	100
_	Cincinnati, Ohio	
	Chicago, Ill.	100
	WCSC 1360 Charleston, S. C. WCSH 940	500
	WCSH 940	1000
_] Portland, Me.	
	Tampa, Fla.	1000
	WDAF 610	1000
	Kansas City, Mo. WDAH 1310	100
_	El Paso, Texas	
	WDAS 1370 Philadelphia, Pa. WDAY 940	100
	WDAY 940	1000
	WDAY 940 Fargo, N. Dak, WDBJ 930	1000
	_ Roanoke, va.	
	WDBO 580 Orlando, Fla.	1000
	Orlando, Fla. WDEL 1120	250
	Wilmington, Del. WDEV 550	500
	Waterbury, Vt.	
	WDGY 1180 Minneapolis, Min	1000
	WDNC 1500	190
	Durham, N. C. WDOD 1280	1000
	1 11 1200 1280	1000
	Chattanooga, Te	
	Chattanooga, Tei WDRC 1330	nn. 1000
	Chattanooga, Te	
	WDOD 1280	1000

	WDSU 1250 1000 New Orleans, La.		WFIL 560 Philadelphia, Pa.	1000		WHB 860 Kansas City, Mo.	1000
	WDWS 1370 100		WFLA 620	1000		WHBB 1500 Selma, Ala.	100
	Champaign, Ill. WDZ 1020 250		Tampa, Fla. WFMD 960	500		WHBC 1200	100
_	Tuscola, Ill.		Frederick, Md.			Canton, Ohio	
-	WEAF 660 50000		WFOR 1370 Hattiesburg, Miss.	100		WHBF 1210 Rock Island, Ill.	100
	New York, N. Y. WEAN 780 1000		WFOY 1210	100		WHBI 1250	1000
	Providence, R. I.		St. Augustine, Fla.			Newark, N. J. WHBL 1300	250
	WEAU 1050 1000 Eau Claire, Wis,		WFTC 1200 Kinston, N. C	100	_	Sheboygan, Wis.	230
	WEBC 1290 1000		WGAL 1500	100		WHBQ 1370	100
	Duluth, Minn. WEBQ 1210 100		Lancaster, Pa. WGAN 640	500		Memphis, Tenn. WHBU 1210	100
	Harrisburg, Ill.		Portland, Me.	344	1	Anderson, Ind.	
	WEBR 1310 100		WGAR 1450	500		WHBY 1200	100
	Buffalo, N. Y. WEDC 1210 100		Cleveland, Ohio WGAU 1310	100		Green Bay, Wis. WHDF 1370	100
	Chicago, Ill.		Athens, Ga.			Calumet, Mich.	
	WEED 1420 100		WGBB 1210 Freeport, N. Y.	100		WHDH 830 Boston, Mass,	1000
	Rocky Mount, N. C. WEEI 590 1000		WGBF 630	500		WHDL 1400	250
	Boston, Mass.		Evansville, Ind.			Olean, N. Y.	
	WEEU 830 1000 Reading, Pa.		WGBI 880 Scranton, Pa.	500		WHEB 740 Portsmouth, N. H.	250
	WELI 900 500		WGCM 1210	100		WHEC 1430	500
	New Haven, Conn.	_	Gulfport, Miss.			Rochester, N. Y.	100
	WELL 1420 100 Battle Creek, Mich.		WGES 1360 Chicago, Ill.	500		WHEF 1500 Kosciusko, Miss.	100
	WEMP 1310 100		WGH 1310	100		WHFC 1420	100
	Milwaukee, Wis. WENR 870 50000		Newport News, Va WGIL 1500	. 250		Cicero, Ill. WHIO 1260	100
	WENR 870 50000 Chicago, Ill.		Galesburg, Ill.	230		Dayton, Ohio	
	WEOA 1370 100		WGL 1370	100		WHIP 1480 Hammond, Ind.	5001
	Evansville, Ind. WESG 850 1000		Fort Wayne, Ind. WGN 720	50000		WHIS 1410	500
	Elmira, N. Y.		Chicago, Ill.			Bluefield, W. Va.	
	WEST 1200 100		WGNY 1210 Newburgh, N. Y.	100		Greensburg, Pa.	25
	Easton, Pa. WEVD 1300 1000		WGPC 1420	100		WHK 1390	100
	New York, N. Y.		Albany, Ga.	1000		Cleveland, Ohio WHKC 640	50
	WEW 760 1000 St. Louis, Mo.		WGR 550 Buffalo, N. Y.	1000		Columbus, Ohio	50
	WEXL 1310 50		WGRC 1370	250		WHLB 1370	10
	Royal Oak, Mich. WFAA 800 50000		New Albany, Ind. WGRM 1210	100		Virginia, Minn. WHLS 1370	25
	WFAA 800 50000 Dallas, Texas		Grenada, Miss.	100		Port Huron, Mich.	
	WFAB 1300 1000	-	WGST 890	1000		WHN 1010 New York, N. Y.	100
	New York, N. Y. WFAM 1200 100		Atlanta, Ga. WGTM 1310	100		WHO 1000	5000
	South Bend, Ind.		Wilson, N. C.	-		Des Moines, Iowa	25
	WFAS 1210 100		WGVA 1050	1000		WHOM 1450 Jersey City, N. J.	25
,	White Plains, N.Y. WFBC 1300 1000		Indianapolis, Ind. WGY 790	50000		WHP 1430	50
	Greenville, S. C.		Schenectady, N. Y			Harrisburg, Pa. WIBA 1280	100
	WFBG 1310 100 Altoona, Pa.		WHA 940 Madison, Wis.	5000		Madison, Wis.	100
	WFBL 1360 1000		WHAI 1210	250		WIBG 970	10
	Syracuse, N. Y.		Greenfield, Mass. WHAL 950	500		Glenside, Pa. WIBM 1370	10
	WFBM 1230 1000 Indianapolis, Ind.		Saginaw, Mich.	500		Jackson, Mich.	
	WFBR 1270 500		WHAM 1150	50000		WIBU 1210 Poynette, Wis,	10
	Baltimore, Md. WFDF 1310 100		Rochester, N. Y. WHAS 820	50000		WIBW 580	100
	Flint, Mich.		Louisville, Ky.			Topeka, Kans.	
	WFEA 1340 500		WHAT 1310 Philadelphia, Pa.	100		WIBX 1200 Utica, N Y.	10
-	Manchester, N. H.		WHAZ 1300	1000		WICA 940	25
			Troy, N. Y.			Ashtabula, Ohio	

- w	ICC 600	500	WKAQ 1240 100		WMAS 1420
	idgeport, Conn.		San Juan, P. R.		Springfield, Mass.
W		100	WKAR 850 100	ם ו	WMAZ 1180
	Louis, Mo. ILL 580	1000	East Lansing, Mich. WKAT 1500 10		Macon, Ga. WMBC 1420
	bana, Ill.		Miami Beach, Fla.		Detroit, Mich.
	ILM 1420 lmington, Del.	100	WKBB 1500 10 East Dubuque, III.		WMBD 1440 Peoria, Ill.
w	IND 560	1000	WKBH 1380 100	•	WMBF 610
	iry, Ind. INS 1180	1000	LaCrosse, Wis.		Miami, Fla. WMBG 1350
	w York, N. Y.		WKBN 570 50 Youngstown, Ohio	0	Richmond, Va.
	10D 610 ami, Fla.	1000	WKBO 1200 10	D	WMBH 1420
		1000	Harrisburg, Pa. WKBV 1500 10	. 	Joplin, Mo. WMBI 1080
	iladelphia, Pa.		Richmond, Ind.		Chicago, Ill.
	lRE 1400 dianapolis, Ind.	1000	WKBW 1480 500 Buffalo, N. Y.		Auburn, N. Y.
l wi	IS 560	1000	WKBZ 1500 10	0	WMBQ 1500
	lumbia, S. C. ISN 1120	250	Muskegon, Mich. WKEU 1500 10	_ <u>├</u>	Brooklyn, N. Y. WMBR 1370
Mi	lwaukee, Wis.		Griffin, Ga.	·	Jacksonville, Fla.
	JAC 1310 hnstown, Pa.	100	WKOK 1210 10		Uniontown, Pa.
	IAG 1060	1000	Sunbury, Pa. WKRC 550 100	o	WMC 780
	orfolk Neb. JAR 890	1000	Cincinnati, Ohio		Memphis, Tenn. WMCA 570
	ovidence, R. I.	1000	WKST 1250 250 New Castle, Pa.	,	New York, N. Y.
		1000	WKY 900 100	0	WMEX 1500
	tsburgh, Pa. IAX 900	1000	Oklahoma City, Okla. WKZO 590 100	0	Boston, Mass. WMFD 1370
	cksonville, Fia. IBC 1200	100	Kalamazoo, Mich.		Wilmington, N. C.
	BC 1200 pomington, Ill.	100	WLAC 1470 500 Nashville, Tenn		WMFF 1310 Plattsburg, N. Y.
	BK 1500	109	WLAK 1310 10	0	WMFG 1210
	troit, Mich. BL 1200	100	Lakeland, Fla. WLAP 1420 10	, <u></u>	Hibbing, Minn. WMFJ 1420
	catur, Ill.		Lexington, Ky. WLAW 680 100	. –	Daytona Beach, Fl
	ton Rouge, La.	500	WLAW 680 100 Lawrence, Mass.	"	WMFO 1370 Decatur, Ala.
	BW 1200	100	WLB 1250 100		WMFR 1200
	w Orleans, La. IBY 1210	100	Minneapolis, Minn. WLBC 1310 100	,	High Point, N. C. WMIN 1370
Ga	dsden, Ala.		Muncie. Ind.		St. Paul, Minn.
	IDX 1270 ckson, Miss.	1000	WLBL 900 5000 Stevens Point, Wis.	0	Fairmont, W. Va.
	EJ 1210	50	WLBZ 620 500		WMPC 1200
	gerstown, Md. IM 1210	100	Bangor, Me. WLEU 1420 10	,	Lapeer, Mich. WMPS 1430
La	nsing, Mich.		Erie, Pa.		Memphis. Tenn.
	IJD 1130 2 icago, Ili.	0000	WLLH 1370 10 Lawrence, Mass.		WMSD 1420 Sheffield, Ala.
w	MS 1420	100	WLLH 1370 10	0	WMT 600
	nwood, Mich.	100	Lowell, Mass. WLMU 1210 100		Cedar Rapids, Iow WNAC 1230
w.	Palm Beach, Fla		Middlesboro, Ky		Boston, Mass.
W. De	R 750 5 troit, Mich.	0000	WLNH 1310 100 Laconia, N. H.	0	WNAD 1010 Norman, Okla.
w.	RD 1200	250	WLS 870 5000	D	WNAX 570
	scaloosa, Ala. ISV 1460 1	0000	Chicago, Ill. WLTH 1400 500		Yankton, S. D.
Wa	shington, D. C.		Brooklyn, N. Y.		WNBC 1380 New Britain, Conn
	nestown, N. Y.	100	WLVA 1200 100 Lynchburg, Va	,	WNBF 1500
w	W 1210	100	WLW 700 50000		Binghamton, N. Y. WNBH 1310
Ak	ron, Ohio I Z 760 5	0000	Cincinnati, Ohio WMAL 630 250	,	New Bedford, Mas
	w York, N. Y.		Washington, D. C.		Springfield, Vt.
			WMAQ 670 50000)	
			Chicago, Ill.		
					ļ

con, Ga. 1BC 100 1420 roit, Mich. 1BD 1440 1000 ria. Ill. 1BF 610 1000 imi, Fla. 1BG 1350 500 hmond, Va. 1BH 1420 100 lin, Mo. AR I 1080 5000 cago, Ill. 1BO 1310 100 burn, N. Y. 1BQ 1500 100 oklyn, N. Y. IBR 100 1370 ksonville, Fla. IBS 1420 250 ontown, Pa. 1C 780 1000 mphis, Tenn. 1CA 570 1000 WYork, N. Y. IEX 1500 100 ton, Mass. 1FD 1370 100 mington, N. C IFF 1310 100 ttsburg, N. Y. 1FG 1210 100 bing, Minn. 100 1FI 1420 ytona Beach, Fla 1FO 1370 100 atur, Ala. IFR 1200 100 h Point, N. C. 11N 1370 100 Paul, Minn. IMN 890 500 rmont, W. Va. 1200 1PC 100 beer, Mich. IPS 1430 500 mphis. Tenn. 1SD 1420 100 ffield, Ala. T١ 600 1000 lar Rapids, Iowa AC 1000 1230 ton, Mass. AD 1010 1000 man, Okla. AX 570 1000 nkton, S. D. BC 1380 250 w Britain, Conn. BF 100 1500 ghamton, N. Y. BH 1310 100 w Bedford, Mass BX 1260 500 ingfield, Vt.

100

	WNBZ 1290 100	WPTF 680	5000	WSFA 1410 500
	Saranac Lake, N. Y.	Raleigh, N. C.		Montgomery, Ala
	WNEL 1290 1000	WQAM 560	1000	WSGN 1310 100 Birmingham, Ala
	San Juan, P. R. WNEW 1250 1000	Mlami, Fla. WQAN 880	500	WSIX 1210 100
	New York, N. Y.	Scranton, Pa.		Nashville, Tenn.
	WNLC 1500 100 New London, Conn.	WQBC 1360 Vicksburg, Miss.	1000	WSJS 1310 100 Winston-Salem, N. C.
	WNNY 1420 100	WQDM 1390	1000	WSM 650 50000
	Watertown, N. Y.	St. Albans, Vt.	4000	WSMB 1320 1000
	WNOX 1010 1000 Knoxville, Tenn.	WQXR 1550 New York, N. Y.	1000	New Orleans, La.
	WNYC 810 1000	WRAK 1370	100	WSMK 1380 200 Dayton, Ohio
	New York, N. Y. WOAI 1190 50000	Williamsport, Pa. WRAW 1310	100	WSNJ 1210 100
	San Antonio, Texas	Reading, Pa.		Bridgeton, N. J.
	WOC 1370 100	WRAX 920 Philadelphia, Pa.	1000	WSOC 1210 100 Charlotte, N. C.
	Davenport, Iowa WOI 640 5000	WRBL 1200	100	WSPA 920 1000
	Ames, Iowa	Columbus, Ga.		Spartanburg, S. C. WSPD 1340 1000
	WOKO 1430 500 Albany, N. Y.	WRC 950 Washington, D. C	1000	Toledo, Ohio
	WOL 1310 1000	WRD0 1370	100	WSPR 1140 500
	Washington, D. C. WOLS 1200 100	Augusta, Me. WRDW 1500	100	Springfield, Mass. WSUI 880 500
	WOLS 1200 100 Florence, S. C.	Augusta, Ga.	100	Iowa City, Iowa
	WOMI 1500 100	WREC 600	1000	WSUN 620 1000 St. Petersburg, Fla.
	Owensboro, Ky. WOMT 1210 100	Memphis, Tenn. WREN 1220	1000	WSVA 550 500
	Manitowoc. Wis.	Lawrence, Kans.		Harrisonburg, Va. WSVS 1370 50
	WOOD 1270 500 Grand Rapids, Mich.	WRGA 1500 Rome, Ga.	100	Buffalo, N. Y.
	WOPI 1500 100	WRJN 1370	100	WSYB 1500 100
	Bristol, Tenn. WOR 710 50000	Racine, Wis. WRNL 880	500	Rutiand, Vt. WSYR 570 1000
	WOR 710 50000 Newark, N. J.	Richmond, Va.	500	Syracuse, N. Y.
	WORC 1280 500	WROK 1410	500	WTAD 900 1000 Quincy, Ill.
	Worcester, Mass. WORK 1320 1000	Rockford, III. WROL 1310	100	WTAG 580 1000
	York, Pa.	Knoxville, Tenn.		Worcester, Mass. WTAL 1310 100
	WORL 920 500 Boston, Mass.	Dallas, Texas	500	Tallahassee, Fla.
	WOSU 570 750	WRTD 1500	100	WTAM 1070 50000 Cleveland, Ohio
	Columbus, Ohio WOV 1130 1000	Richmond, Va. WRUF 830	5000	WTAQ 1330 1000
	New York, N. Y.	Gainesville, Fla.		Green Bay, Wis. WTAR 780 1000
	WOW 590 1000 Omaha, Neb.	Richmond, Va.	5000	Norfolk, Va.
	WOWO 1160 10000	WSAI 1330	1000	WTAW 1120 500
	Fort Wayne, Ind. WPAD 1420 100	Cincinnati, Ohio WSAJ 1310	100	College Station, Tex. WTAX 1210 100
	Paducah, Ky.	Grove City, Pa.	100	Springfield, Ill.
	WPAR 1420 100	WSAL 1200	250	WTBO 800 250 Cumberiand, Md.
	Parkersburg, W. Va. WPAX 1210 100	Salisbury, Md. WSAN 1440	500	WTCN 1250 1000
	Thomasville, Ga.	Allentown, Pa.		Minneapolis, Minn. WTEL 1310 100
	WPAY 1370 100 Portsmouth, Ohio	Fall River, Mass.	1000	Philadelphia, Pa.
	WPEN 920 1000	WSAU 1370	100	WTHT 1200 100 Hartford, Conn.
	Philadelphia, Pa. WPG 1100 5000	Wausau, Wis. WSAY 1210	100	WTIC 1040 50000
	Atlantic City, N. J.	Rochester, N. Y.		Hartford, Conn. WTIS 1310 100
	WPRA 1370 190 Mayaguez, P. R.	WSAZ 1190 Huntington, W. V	1000	WTJS 1310 100 Jackson, Tenn.
-	WPRO 630 500	WSB 740	50000	WTMJ 620 1000
	Providence, R. I.	Atlanta, Ga. WSBC 1210	100	Milwaukee, Wis. WTMV 1500 100
	WPRP 1420 100 Ponce, P. R.	Chicago, Ill.		East St. Louis, Ill.
	ronce, r. ne.	WSBT 1360	500	
	-	WSBT 1360 South Bend, Ind.	500	

WTNJ 1280 500 Trenton, N. J.	XEBL 1220 50 Mazatlan, Sin.	XEL 1100 250 Mexico City, D. F.
 WTOC 1260 1000	XEBO 1310 25	XELA 1240 54 Saltillo, Coah.
 Savannah, Ga. WTOL 1200 100	Irapuato, Guan. XEBP 1150 250	XELO 580 1000
Toledo, Ohio	Durango, Dgo.	Tijuana, B. Cfa.
WTRC 1310 100 Elkhart, Ind.	XEBS 1340 200 Mexico City, D. F.	XELZ 1370 100 Mexico City, D.F.
WVFW 1400 500	XEBU 1200 50	XEMO 860 500
 Brooklyn, N. Y. WWAE 1200 100	Chihuahua, Chih. XEBX 640 250	Tijuana, L. C. XEMU 580 25
 Hammond, Ind.	Sabinas, Coah.	Piedras Negras, Coah.
WWJ 920 5000 Detroit, Mich.	XEBZ 810 100 Mexico City, D. F.	XEMX 1280 10 Mexico City, D. F.
 WWL 850 10000	XEC 1150 100	XEN 780 100
 New Orleans, La. WWNC 570 1000		Mexico City, D. F. XENC 860 5
 Asheville, N. C.	San Luis Potosi, S.L.P. XED 1160 2500	Mexico City, D. F.
WWRL 1500 100 Woodside, N. Y.	XED 1160 2500 Guadalajara, Jal.	XENT 910 15000 Nuevo Laredo, Tams.
WWSW 1500 100	XEDA 1220 200	XEOJ
 Pittsburgh, Pa. WWVA 1160 5000	Gral. Anaya, D. F. XEDF 810 100	XEOK 760 250
 Wheeling, W. Va.	Nuevo Laredo, Tams.	Tijuana, L. C.
 WXYZ 1240 1000 Detroit, Mich.	XEDH 1340 200 Villa Acuna, Coah.	XEP 1160 50 Juarez, Chih.
 W3XDD 50000	XEDP 1080 500	XEPN 730 10000
 Whippany, N. J. W3XJ 1060 100	Mexico City, D. F. XEDW 1150 20	Piedras Negras, Coah. XERA 840 25000
College Park, Md.	Minatitlan, Ver.	Villa Acuna, Coah.
W8XO 700 500000 Cincinnati, Obio	XEE 1210 50 Durango, Dgo,	XERB 730 10000 Rosarito Beach, B. Cfa.
 XEAA 750 200	XEF 1450 100	XES 990 25
 Mexicali, B. C. XEAC 980 1000	Juarez, Chih. XEFA 1180 500	Tampico, Tams. XET 690 500
XEAC 980 1000 Tijuana, L. C.	Tacuba, D. F.	Monterrey, N. L.
XEAF 990 750	XEFB 870 200 Monterrey, N. L.	XETB 1310 12 Torreon, Coah,
 Nogales, Son. XEAG 1310 10	XEFC 550 100	XETF 1220 1
 Cordoba, Ver.	Merida, Yuc. XEFE 980 250	Veracruz, Ver. XETH 1210 10
XEAI 1250 500 Mexico City, D. F.	Nuevo Laredo, Tams.	Puebla, Pue.
XEAL 660 1000 Mexico City, D. F.	XEFI 1440 250 Chihuahua, Chih.	XEU 1010 25 Veracruz, Ver.
 XEAM 750 25	XEFM 1160 20	XEW 890 5000
 Matamoros, Tams.	Leon, Gto.	Mexico City, D. F XEX 1310 12
XEAO 660 250 Mexicall, B. C.	XEFO 940 5000 Mexico City, D. F.	Monterrey, N. L.
XEAP 1340 50	XEFQ 1010 50	XEXB 1270 25
 Obregon, Son. XEAS 1160 100	Cananea, Son. XEFV 1210 100	Jalapa, Ver. XEXD 1340 35
Saltillo, Coah.	Juarez, Chih.	Jalapa, Ver.
XEAT 1210 250 Parral, Chih.	XEFW 1310 300 Tampico, Tams.	XEXE 1270 1 Texcoco, D. F.
XEAU 1320	XEG 1230 250	XEXH 1250 25
 Tijuana, B. Cfa. XEAW 960 100000	Monterrey, N. L. XEH 720 250	San Luis Potosi, S.L.P. XEXM 610 50
Reynosa, Tams.	Monterrey, N. L.	Mexico City, D. F.
XEB 1030 10000 Mexico City, D. F.	XEI 1370 125 Morelia, Mich.	XEXS 1310 10 Mexico City, D. F.
 XEBA 1080 20	XEJ 1020 1000	XEXX 1170 100
 Guzman, Jal. XEBG 820 1000	Juarez, Chih. XEJP 1130 100	Mexico City, D. F. XEYO 610 50
Tijuana, B. Cfa.	Mexico City, D. F.	Mexico City, D. F.
XEBH 930 500 Hermosillo, Sonora	XEJW 870 500 Mexico City, D. F.	XEZ 630 50 Merida, Yuc.
 XEBI 1000 25	XEK 890 100	ZNS 540 40
 Aguascalientes, Ags. XEBK 1080 100	Mexico City, D. F. XEKL 1240 500	VSS 640 50
VEDV 1000 100	Leon, Guan.	San Salvador, E. S.

Scrapbook

(Continued from page 10)

Latin American countries. With announcements in Portuguese and Spanish, German publicists extol the glories of their form of government. their achievements, and the advantages of trading exclusively with German concerns. To make sure that the messages of Hitler and Goebbels get across, translations are broadcast in the native tongue. German consuls take down the speech in shorthand, send it to the local press where it invariably is printed in full. It is claimed that the consul is authorized to pay advertising rates if necessary, but the speech must be printed in its entirety.

When Secretary of State Cordell Hull spoke recently on Latin American relations, American press services cabled a brief condensation to South America. Few papers gave more than half a column to the Hull speech, but devoted a full page to a message from Goebbels the same week.

At DEADLINE . . .

NEW—Elmira, N. Y., 1200 kcs., 250 watts days. The Elmira Star-Gazette, Inc.

NEW—Jackson, Miss., 1420 kcs., 100 watts nights, 250 watts days. The Standard Life Insurance Co. of the South.

NEW—Youngstown, Ohio, 1420 kcs., 100 watts days. The Youngstown Vindicator.

NEW—WDAN, Danville, Ill., 1500 kcs., 250 watts days. The Danville Commercial News.

WDWS, Champaign, Ill., on 1370 kcs., has increased power to 100 watts nights, 250 watts days.

Ownership of KFXR, Oklahoma City, has been transferred to the Plaza Court Broadcasting Co.

Time Conversion Table

The time given in our indices is Eastern Standard by the 24-hour clock.

ClockESTCSTMSTPST0000Midn't11 pm10 pm9 pm	GMT 0500
0000 Midn't 11 nm 10 nm 9 nm	n 0500
0100 1 am Midn't 11 pm 10 pm	
0200 2 am 1 am Midn't 11 pm	
0300	
0400 4 am 3 am 2 am 1 am	
0500 5 am 4 am 3 am 2 am	
0600 6 am 5 am 4 am 3 am	
0700	
0800 8 am 7 am 6 am 5 an	
0900	
1000 10 am 9 am 8 am 7 an	
1100 11 am 10 am 9 am 8 an	
1200 Noon 11 am 10 am 9 an	
1300 1 pm Noon 11 am 10 an	
1400 2 pm 1 pm Noon 11 an	
1500 3 pm 2 pm 1 pm Noor	
1600 4 pm 3 pm 2 pm 1 pn	
1700 5 pm 4 pm 3 pm 2 pm	
1800 6 pm 5 pm 4 pm 3 pm	
1900 7 pm 6 pm 5 pm 4 pm	
2000	
2100	
2200 10 pm 9 pm 8 pm 7 pm	
2300	
2400 Midn't 11 pm 10 pm 9 pm	
For times throughout the entire world consult th	e RADEX

Time Converter.

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Back issues of RADEX available from September, 1930 (No. 41) to date, at 25c each; five for \$1.00; ten for \$1.75, or twenty for \$3.25.

By Locations

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Distant Volume Control, for regulation of volume of set from a distance	\$2.00
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