

MIDSUMMER, 1938



# RADIO IN INDEX



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# Interested in 10 METERS?

• • • By B. FRANCIS DASHIELL

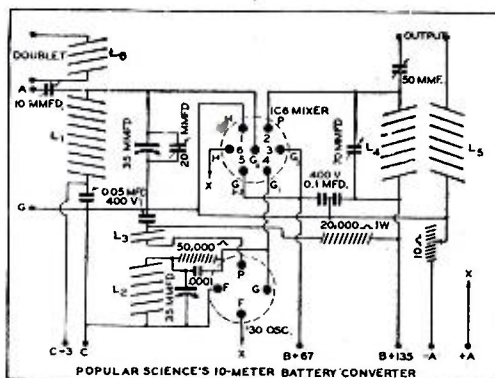
THE 10-meter radio band has become the most interesting portion of the ultra-short-wave spectrum. In this region, between 28 and 30 megacycles, remarkable radio transmissions are being accomplished. On the other hand, the band is erratic at times, being influenced by the things that affect radio reception, 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 all-wave 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 short-wave 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.

Recently, some people 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 heroic service in thousands of homes. It was thought that the 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-wave set. This little unit picks 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 un-

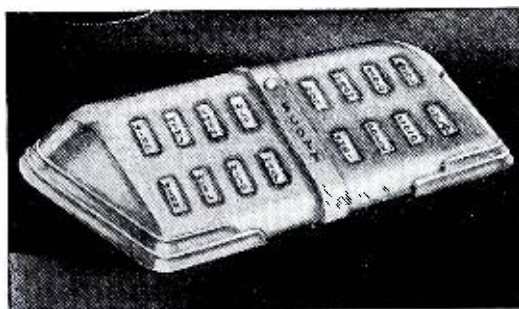
able to work in it.

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, too, requires skill. These 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 10-meter converter. With this in mind, we are mentioning a simple two-volt, 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 the courtesy of the Editor of POPULAR SCIENCE. But 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  $\frac{3}{4}$ -inch in diameter. Coil  $L_1$ , which tunes the incoming signals, has 8 turns of No. 14 wire;  $L_2$ , which is the oscillator, has  $6\frac{1}{4}$  turns of No. 14;  $L_3$  has 4 turns of No. 20;  $L_4$ , the output coil, has 20 turns of No. 30, closely wound, but  $1\frac{1}{2}$ -inch in diameter on a tube;  $L_5$ , 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  $\frac{1}{8}$ -inch from the plate end of coil  $L_4$ ; and  $L_6$ , 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  $L_4$ , 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."

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 WEAFF 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

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 Fecamp, Rennes and Bordeaux 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 attention 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 re-organizations 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 vice-president. 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 won 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 transmitters and arrow-like directional 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

• • • For New DXers

**T**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 short-wave 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 short-wave 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

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 dead-spot 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 digits, minutes. Thus, 1 a. m. is 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 min-

utes 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.

*Second District (W2—)*—includes, in the State of New York, the counties of Albany, Long Island, New York, Rensselaer, Schenectady and Staten Island, and, in the State of New Jersey, the counties of Bergen, Essex, Hudson, Middlesex, Monmouth, Ocean, Passaic and Union.

*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 Vir-

ginia, 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, Zed.

These pronunciations are given the way they sound on the radio and may not agree with Spanish textbooks. Slightly different 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 in very much should become familiar with some of the expressions used, such as "OM", meaning "Old man," or "YL," meaning "Young Lady." Amateurs must be good diplomats because every 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 in print. A few samples are "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 is "es." The letters "FB" mean "fine business," or, in other words, "very good," as a "FB receiver." "Hi" is a laugh in code. The seldom-heard "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.

XX 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.

## TIME CONVERTER

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan could have around. Just a twirl of the dial shows the correct time at any location in the world. No calculation is necessary; the dial does all the work.

**You Can't Get Along  
Without It.**

**The price is only**

**25c**

(26c in Ohio)

## 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

**I** HAVE a 1938 11-tube Super-Sky-rider 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 WEAJ 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 wave-trap 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 station. The trap, fully adjusted, is 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 4-tube set? Please give me a circuit using this old receiver.*

We doubt whether the Zenith 9-tube 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 satis-

factory. 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 pre-selector. 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 your 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 super-heterodyne 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 small booklet, "Build Your Own," 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 man-made 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. A 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.

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 transformer 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 two-stage 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. This tends to separate stations 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 variable-selectivity 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. A simple electrical method of changing coupling does not require mechanical control of adjustment, 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 frequency.

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 a slight frequency variation between 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 short-wave stations. I have a good all-wave 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 os-

illator 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, by-pass 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 makes signals indistinguishable. 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 band 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 31-meter 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 you 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

• • • By CARLETON LORD

OF 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-



*Fanny Brice has scored an overnight hit on the NBC Good News broadcasts, with Baby 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-watt-ers 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 old-timers. 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. Winkley, Hughson, Calif. "Between September 8th and March 19th, exactly 290 new stations were heard on my four-tube Lafayette 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 yes-

terday 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 I heard CMX, CMCK, CMQ and 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 Hallcrafters 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 which 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 six-tube Kolster receiver. My present log stands at 613 stations heard and 52 verified. Some of my best catches include CMOX, CMHJ, KLPM, 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 listen-

ers, 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 keys, 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 two-

room 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, Mex-

ico 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 kcys—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 kecs is XEL at Mexico City.

### Station Data

"We note in the March issue of RADEX that the sign-on and sign-off 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 early-morning 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 in-

forms 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 kecs. Station 7DY in Derby, Tasmania, changed its frequency from 1400 to 1390 kecs.

Mr. Hutchison advises also that 4YZ in Invercargill, New Zealand, 680 kecs., 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 mid-winter 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 equal terms. The most ingenious 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 second-place 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.

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## 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

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 Arai-juka, 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).

William Wheatley, 130-30—90th 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. Key to the small letters is given at the end of the column.

### 28 Megacycles—Ten Meters

CN8AV (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); 5BU (v); 5CN (v); 5CY (v); 5JO (c); 5KH (cv); 5LJ (c); 5RV (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); IIT (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); 5GM (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); CT1-: AG (q); AY (qE); DA (E); QG (pqE); GH (eiqrE); CT2DC (E); CT3AN (s); CX2AK (apAE).

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 (hjkmpqztCE); 8AM (hmpqsE); 8AT (s); 8BA (hr); 8CP (s); 8DC (m); 8DL (p); 8DR (y); 8GF (q); 8GM (h); 8GS (m); 8JI (E); 8JJ (t); 8JQ (qE); 8KI (ampqrtuzCE); 8MA (e); 8NQ (s); 8OO (t); 8OZ (s); 8PU (E); 8QD (hpE); 8QH (E); 8RR (s); 8RZ (g); 8SI (q); 8UE (hpAE); 8VE (q); 8VJ (s); 8XN (qE); 8XT (rz); 8YZ (m); 8ZC (mE); 8ZF (kmpqzC).

G

GI-: 2AK (v); 2CC (hjprE); 5QX (kpqz); 8BA (j); 8JE (j); 8LW (j); GM-: 2DI (hpszc); 2MP (p); 2UU (adfhjknpqrzCE); 5NW (k); 6BM (s); 6KO (s); 6NX (s); 6WD (jpszE); 6XI (s); 8CH (s); 8MN (qE); 8RG (s); 8RJ (z); GW-: 5GV (k); 5IJ (r); 6JW (gpC); 6WD (C); 8HI (z); G-: 2AI (hjmpqtuCE); 2AK (pqrACE); 2AV (A); 2BN (v); 2BO (j); 2BY (pr); 2CU (q); 2DS (hk); 2DV (kpzE); 2DZ (g); 2HA (qE); 2HK (qE); 2JG (js); 2LG (s); 2LK (A); 2MF (E); 2OC (f); 2OS (p); 2PL (pC); 2PR (m); 2PU (fhpqtuvzACDE); 2QN (s); 2QT (kmtAE); 2TR (ahipqrvyzAC); 2UQ (s); 2UT (hpatC); 2VD (s); 2XU (j); 2XV (ipqt); 2XY (kmpqA); 2ZT (s); 3BM (k); 3CP (ks); 3DO (C); 3DY (t); 4TK (j); 5AD (m); 5BD (k); 5BJ (himngstuzE); 5BL (r); 5BM (E); 5DO (h); 5DR (pt); 5DT (uE); 5GS (jpp); 5IF (q); 5JM (s); 5KH (agjimpsCE); 5KI (E); 5LE (j); 5LK (kpqt); 5LP (s); 5LU (gpuvE); 5ML (dgipqrE); 5NA (h); 5NI (dmpqrE); 5NL (f); 5NT (s); 5OA (f); 5PN (m); 5QI (pE); 5QN (hjnpqstuCE); 5RB (n); 5RU (j); 5RV (hpatzC); 5Y (q); 5TO (p); 5TP (q); 5VM (h); 5WU (s); 5XI (p); 5XT (qrE); 5YV (hptCE); 5ZB (s); 5ZG (tE); 5ZJ (p); 6AG (pqE); 6AH (p); 6AI (h); 6AN (h); 6BC (p); 6BK (s); 6BL (q); 6BV (m); 6BW (fmqE); 6BX (E); 6BY (mnsE); 6CL (akpsu);

6DD (pq); 6DL (hgrsE); 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 (j); 6KL (E); 6KS (r); 6LF (j); 6LK (eghmpqrUVACE); 6LL (E); 6LV (z); 6ML (mptuz); 6NF (ehjkpqrstC); 6OM (s); 6OY (s); 6RA (m); 6VE (j); 6VK (mp); 6VX (qE); 6WL (h); 6WU (qC); 6WX (ghqCE); 6WY (hpqrstz); 6XN (hkm); 6XR (hmpqrstCE); 6ZI (hp).

**G8-**: BX (qE); BZ (j); CN (q); CS (m); DU (p); DW (p); FZ (p); GB (s); GM (mq); GP (ksv); GX (fmAE); IG (hnpvrt); KT (q); KV (s); KZ (qE); LD (j); MA (pqCE); MF (kqE); MN (h); MX (hpqzC); 8NJ (p); 6OG (q); QH (puE); RX (sC); SA (f); SB (p); SJ (s); WF (E).

### I-I

**HB-**: 2SP (s); 9BL (E); 9J (hp); **HC-**: 1FG (qrw); 1JB (adflrvwCEF); 1JW (abpqrsuZC); 1SE (E); 2HP (ab); 2LC (x); **HH-**: 2B (adhprvE); 2G (d); 2PB (apuE); 2S (r); 2U (r); 2X (adilmopqrstvACEF); 2XX (f); 3BX (s); 4AS (afkrAC); 5PA (adhqprwx); **HI-**: 1C (adxC); 1W (B); 2BZ (s); 2W (d); 3N (dhmqrvzEF); 4N (F); 4R (q); 5X (adimqrvwE); 5Z (F); 7G (qqr); 7I (agpq); 7O (q); **HK-**: 1AZ (v); 1BA (v); 1DG (abdlpuvrE); 1GC (d); 1GL (a); 1JC (prz); 1KC (x); 1LZ (bz); 1PA (h); 1QS (F); 2LD (f); 3JB (vC); 3LDC (abdiJlprvzCDE); 3LE (x); 3LR (m); 4AG (d); 5AR (mA); 5BB (v); HP1A (hi); HP2HP (C).

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

### K

**KA-**: 1CS (a); 1ME (alpqszC); 1ZL (ablzB); **K4-**: DDH (adE); EFG (r); EJF (abdprstDEF); EMG (mns); ENY (apqtvzE); EQA (F); EZR (f); FAY (ahipqsuCE); SA (adlpstuE); **K6-**: BJJ (pwB); BNR (airsw); 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).

### L-N

**LA1F** (akpqryE); **LU-**: 1BA (f); 1DA (ad); 1DJ (d); 1HI (w); 1QA (E); 2BG (pr); 3BAC (r); 3BK (r); 3BV (r); 5AN (abprsvzC); 5CZ (E); 5DL (b); 6JA (s); 6KE (apqC); 7AG (arE); 9BV (abflpsE); NK1JN (r); NY2AE (abr).

### O-P

**OA-**: 2B (l); 4AF (a); 4AL (aE); 4R (aA); **ON-**: 4AP (m); 4AW (s); 4BG (pqt); 4BR (qt); 4BZ (h); 4FE (s); 4GJ (h); 4MJ (q); 4PA (mprsvCE); 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); OMZ (mpuE); ONA (p); OQQ (s); OUN (ahkmpqrstACE); OWF (qr); OXF (p); OZB (s); **PK-**: 1PK (a); 1ZZ (a); 2WL (a); **PY-**: 1GJ (ap); 1MU (p); 2AC (abp); 2AP (E); 2PC (a); 3BP (E); 5AK (m); 5AQ (abp).

### S

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

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

### T

**TI-**: 2AV (ahkmpqsuZC); 2FG (afhkmpqrsvCF); 2HP (afpqrvCB); 2KP (m); 2LR (eqA); 2PG (m); 2RC (akpqrsuACF); 3AV (fkpr); 6AY (A); 7AC (g).

### V

VE9AT (w); VI2PP (j); **VK2-**: ABD (ow); ABF (a); ABG (bdpAC); AC (m); ACO (d); ADE (abdnpstWB); ADK (b); ADS (s); ADT (bdmpsA); AEZ (p); AF (a); AGO (s); AHA (pA); AIB (s); AS (aA); AV (s); AZ (mw); BN (b); BQ (bdhw); BZ (abu); CD (a); CJ (adnpqs); CP (a); CZ (q); DA (s); DE (h); DK (adpsu); EH (w); ES (a); FM (s); GU (adijnpqsuZC); GV (s); HF (abpuw); HZ (s); 1Q (admnpstuC); JO (a); JU (s); MB (s); MT (s); NP (s); NQ (s); NY (pqs); OG (a); OQ (abA); PK (s); QL (s); QP (s); RA (s); RK (s); RQ (s); SK (s); TC (ab); TF (s); TI (s); TT (s); UC (dlpns); UD (h); UF (s); UR (s); UU (n); UZ (s); VA (ds); VB (d); VQ (s); VU (s); VV (abdqstuwAC); VZ (s); WD (h); WS (a); XJ (a); YL (a); YW (dA); ZC (adnoAC); ZP (s).

**VK3-**: AV (s); BJ (u); BZ (pqu); GQ (ads); HJ (sB); IO (a); IT (u); IW (s); LI (b); LR (b); MX (npu); NP (ab); NS (s); OI (b); PX (p); PZ (n); QK (s); RW (d); TZ (dA); WA (B); XJ (ablpWB); ZB (ds); ZC (a); ZJ (b); ZL (abdnprsuC); 3ZX (b); ZZ (aux).

**VK4-**: AC (s); CD (abpq); DU (q); EC (w); GG (w); HN (c); JU (adsw); LW (aboq); RJ (w); TH (a); VD (bdipqsu); VJ (ab); WD (a); ZU (q).

**VK5-**: BF (bq); BV (s); LW (s); TR (bs); WD (abdlosw); WO (p); WR (s); ZF (s); **VK6-**: LF (s); MW (ap); WA (a); YZ (B); VK7CM (s); VK7QZ (s).

**VO-**: 1A (dmnqA); 1I (ap); 1M (q); 1S (m); 1X (mz); 1Y (q); 2Z (dE); 3X (m); 4A (mq); 6D (ahlmrpeCE); 6G (t); 6J (dn); **VP-**: 1BA (ap); 1DA (s); 1DM (yA); 1GN (v); 2AB (dfvA); 2AT (pAE); 2CD (y); 2DA (C); 3BG (c); 3MR (q); 4AG (e); 4GA (ahkmpzCE); 4TH (aE); 4TK (mv); 6FO (C); 6LR (s); 6MO (abpvzAC); 6MR (bhjpvzE); 6PC (r); 6PR (d); 6TR (akuvE); 6YB (abdlmpqrUvCE); 6YN (r); 7NA (advC); 7NT (s); 9AD (s); 9G (adj); 9L (adjjppquvC); 9R (abdKmpqrUvCEF); VR6AY (abefhjlmoprstwxyzBC).

### W-X

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

### Y

**YN-**: 1OP (abdefhmpqryACE); 3DG (abjprAC); **YR-**: 5AA (jkmprqs); 5KW (q); 5RU (s); YU4VD (s); YU7AY (s); YV-: 1AA (dmsx); 1ABY (w); 1AG (ajruE); 1AP (adfhnpqrstwBCDE); 1AQ (adhilqrsvzBCE); 1AT (rs); 2AK (s); 4AA (adhmnpruvCEF); 4AB (adnqrtACE); 4ABG (E); 4AD (svE); 4AO (n); 5AA (fqE); 5ABA (av); 5ABF (dkpvEF); 5ABQ (adpC); 5ABY (adelpqrsvEF); 5AC (a).

### Z

**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).

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



*"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

**A**FTER frequent changes, the 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 President Cleveland. The White House will be shown on the 4½ cent stamp previously announced for President Monroe's portrait.

Under the revised program, Presi-

Station KZIB in Manila, 900 kcs 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.).

dent Monroe will appear on the 5 cent stamp, which means that the entire Presidential list from the 4½ 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 office. For example, Lincoln, the 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, 1½ cent Martha Washington, 2 cent John Adams, 3 cent Jefferson, 4 cent Madison, 4½ 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 Hayes, 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 gallery 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 1½ 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 issue 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. 6¾ 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 Troopers 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. W1XX 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.)

CJ CX 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 Havana.

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.)



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 "Wszvstkie 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 Ill.)

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 Klipheuvell 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 Ill.)

#### 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 kcs, 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

**E**XAMINERS 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 off 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 twenty-four hour program can be chosen at one time and will be reproduced without further adjustment of any kind.

Additional control, in case a pre-selected 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 Blich 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 kcs, 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
990	CMKL	Bayamo, Cuba. Cespedes 26
1210	KWJB	Globe, Ariz. Sims Broadcasting Co.
1210	.....	Rice Lake, Wis. Walter H. McGenty
1250	WKST	New Castle, Pa. Keystone Brdcastg. Co.
1250	.....	St. Louis, Mo. Star-Times Pub. Co.
1370	WHLS	Port Huron, Mich. Port Huron Brdcastg. Co.
1420	KGLU	Safford, Ariz. Gila Broadcasting Co.
1420	.....	Bozeman, Mont. Roberts McNab Co.
		Power
950	WRC	Washington, D. C., 1000 (5) from 500
1490	KFBK	Sacramento, Calif., 10,000 from 5000
		Network
570	KGKO	Wichita Falls, Tex., NBC from CBS
640	WHKC	Columbus, O., new MBS
1210	KPFA	Helena, Mont., new NBC
1310	CJLS	Yarmouth, N. S., new CBC
1370	KTOK	Oklahoma City, Okla., new NBC
1500	CJIC	Sault Ste. Marie, Ont., new CBC
		Owner
1200	WHBC	Ohio Brdcastg. Co., 319 Tuscola St., W., Canton, O.
1200	WJNO	WJNO, Inc., Box 189, W. Palm Beach, Fla.
		Permit to Change Frequency
980	XEFE	Nuevo Laredo, Tams., to ?
1190	WATR	Waterbury, Conn., to 1290
1240	KLPM	Minot, N. Dak., to 1360
1250	WCAL	Northfield, Minn., to 760
1250	WLB	Minneapolis, Minn., 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**

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

(Continued 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:

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



# NBC Shortwave Service

**D**URING 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 short-

waved 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 their appreciation of the special programs broadcast to them in Europe and in many of the out-of-the-way 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

**T**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.

All times listed are a.m., Eastern Standard.

## Second Monday

3:00-3:15	WABY	1370	Albany, N. Y.
3:05-3:20	WMAS	1420	Springfield, Mass.
3:10-3:25	WCAX	1200	Burlington, Vt.
3:15-3:30	WRDO	1370	Augusta, Maine
3:20-3:35	WAGM	1420	Presque Isle, Me.
3:30-3:45	WQDM	1390	St. Albans, Vt.
3:35-3:50	WMFF	1310	Plattsburg, N. Y.
3:40-3:55	WABI	1200	Bangor, Maine
3:45-4:00	WCAD	1220	Canton, N. Y.
3:50-4:05	WLNH	1310	Laconia, N. H.
3:55-4:10	WIBX	1200	Utica, N. Y.
4:00-4:15	WWRL	1500	Woodside, N. Y.
4:05-4:20	WMBO	1310	Auburn, N. Y.
4:10-4:25	WBRB	1210	Red Bank, N. J.
4:20-4:35	KVOX	1310	Moorhead, Minn.
4:25-4:40	KFPW	1210	Fort Smith, Ark.
4:30-4:45	WMIN	1370	St. Paul, Minn.
4:35-4:50	KNET	1420	Palestine, Texas
4:40-4:55	WBBZ	1200	Ponca City, Okla.
4:45-5:00	KFGQ	1370	Boone, Iowa
4:50-5:05	KRBC	1420	Abilene, Texas
4:55-5:10	KGHI	1200	Little Rock, Ark.
5:00-5:15	KTEM	1370	Temple, Texas
5:05-5:20	KABR	1420	Aberdeen, S. D.
5:10-5:25	KGEK	1200	Sterling, Colo.
5:15-5:30	KPJZ	1370	Fort Worth, Texas
5:20-5:35	WMBR	1420	Joplin, Mo.
5:25-5:40	WIL	1200	St. Louis, Mo.
5:30-5:45	WOC	1370	Davenport, Iowa
5:35-5:50	KABC	1420	San Antonio, Texas
5:40-5:55	KADA	1200	Ada, Okla.
5:45-6:00	KLUF	1370	Galveston, Texas
5:55-6:10	KHBC	1400	Hilo, Hawaii
6:00-6:15	KRE	1370	Berkeley, Calif.
6:05-6:20	KXO	1500	El Centro, Calif.
6:10-6:25	KWG	1200	Stockton, Calif.
6:15-6:30	KERN	1370	Bakersfield, Calif.
6:20-6:35	KUMA	1420	Yuma, Ariz.
6:25-6:40	KVCV	1200	Redding, Calif.
6:30-6:45	KLS	1280	Oakland, Calif.
6:35-6:50	KYOS	1040	Merced, Calif.
6:40-6:55	KSUN	1200	Lowell, Ariz.
6:45-7:00	KGDM	1100	Stockton, Calif.
6:50-7:05	KIEM	1450	Eureka, Calif.
6:55-7:10	KVEC	1200	San Luis Obispo, Calif.

## Second Tuesday

3:00-3:15	WSJS	1310	Winston-Salem, N. C.
3:05-3:20	WMFJ	1420	Daytona Beach, Fla.
3:10-3:25	WAIM	1200	Anderson, S. C.
3:15-3:30	WMFD	1370	Wilmington, N. C.
3:20-3:35	WEED	1420	Rocky Mount, N. C.
3:25-3:40	WJNO	1200	W. Palm Beach, Fla.
3:30-3:45	WRDW	1500	Augusta, Ga.
3:35-3:50	WICA	940	Ashtabula, Ohio
	WIOD	610	Miami, Fla.
3:40-3:55	WAYX	1200	Waycross, Ga.
	WBLY	1210	Lima, Ohio
3:45-4:00	WDNC	1500	Durham, N. C.
	WPAY	1370	Portsmouth, Ohio
3:50-4:05	WAIR	1250	Winston-Salem, N. C.
	WMBC	1420	Detroit, Mich.
3:55-4:10	WALR	1210	Zanesville, Ohio
	WMFR	1200	High Point, N. C.
4:00-4:15	WHBB	1500	Selma, Ala.
	WKRC	550	Cincinnati, Ohio
4:05-4:20	WCLE	610	Cleveland, Ohio
	WSMB	1320	New Orleans, La.
4:10-4:25	KALB	1210	Alexandria, La.
	WLBC	1310	Muncie, Ind.
4:15-4:30	KELD	1370	El Dorado, Ark.
	WOPI	1500	Bristol, Tenn.
	WWAE	1200	Hammond, Ind.
4:20-4:35	WACO	1420	Waco, Texas
	WBCM	1410	Bay City, Mich.
	WDBO	580	Orlando, Fla.
4:25-4:40	KXYZ	1440	Houston, Texas
	WCMI	1310	Ashland, Ky.
	WSIX	1210	Nashville, Tenn.
4:30-4:45	KGKL	1370	San Angelo, Tex.
	WHBY	1200	Green Bay, Wis.
	WHEF	1500	Kosciusko, Miss.
4:35-4:50	KCMC	1420	Texarkana, Tex.
	WRK	1390	Cleveland, Ohio
4:40-4:55	KRGV	1260	Weslaco, Texas
	WADC	1320	Akron, Ohio
4:45-5:00	KTOK	1370	Oklahoma City, Okla.
	WJBK	1500	Detroit, Mich.
4:50-5:05	KGFF	1420	Shawnee, Okla.
4:55-5:10	KFVS	1210	Cape Girardeau, Mo.
5:00-5:15	KMAC	1370	San Antonio, Texas
5:05-5:20	KAND	1310	Corsicana, Texas
5:10-5:25	KLAH	1210	Carlsbad, N. Mex.
5:15-5:30	KIUP	1370	Durango, Colo.
5:20-5:35	KFXR	1310	Oklahoma City, Okla.
5:25-5:40	KDLR	1210	Devils Lake, N. D.
5:30-5:45	KICA	1370	Clovis, N. Mex.
5:35-5:50	KGMB	1320	Honolulu, Hawaii
5:40-5:55	KBTM	1200	Jonesboro, Ark.
5:45-6:00	KRMC	1370	Jamestown, N. D.
6:05-6:20	KORE	1420	Eugene, Ore.
6:10-6:25	KOOS	1200	Marshfield, Ore.
6:15-6:30	KAST	1370	Astoria, Ore.
6:20-6:35	KPQ	1500	Wenatchee, Wash.
6:25-6:40	KFXD	1290	Nampa, Idaho
6:30-6:45	KUJ	1370	Walla Walla, Wash.
6:35-6:50	KRNR	1500	Roseburg, Ore.
6:40-6:55	KVOS	1200	Bellingham, Wash.
6:45-7:00	KEEN	1370	Seattle, Wash.
6:50-7:05	KMED	1410	Medford, Ore.
7:00-7:15	KRKO	1370	Everett, Wash.

## Second Wednesday

3:00-3:15	WTEL	1310	Philadelphia, Pa.
3:05-3:20	WNBF	1500	Binghamton, N. Y.
3:10-3:25	WLVA	1200	Lynchburg, Va.
3:15-3:30	WSAJ	1310	Grove City, Pa.
3:20-3:35	WWSW	1500	Pittsburgh, Pa.
3:25-3:40	WBAX	1210	Wilkes-Barre, Pa.
3:30-3:45	WHAT	1310	Philadelphia, Pa.
3:35-3:50	WRTD	1500	Richmond, Va.

3:40-3:55	WBBL	1210	Richmond, Va.	WTRC	1310	Elkhart, 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, Okla.
4:05-4:20	WQAN	890	Scranton, Pa.	5:30-5:45	KFRO	1370	Longview, Texas
4:10-4:25	KWNO	1200	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	Midland, 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.	6:05-6:20	KHUB	1310	Watsonville, Calif.
4:25-4:40	KSO	1430	Des Moines, Iowa	6:10-6:25	KGGC	1420	San Francisco, Calif.
	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.
4:35-4:50	KDAL	1500	Duluth, Minn.	6:30-6:45	KJBS	1070	San Francisco, Calif.
	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	Monterey, Calif.
	WTAW	1120	College Station, Tex.	6:45-7:00	KGU	750	Honolulu, Hawaii
4:45-5:00	KRMD	1310	Shreveport, La.	6:50-7:05	KHSL	1260	Chico, Calif.
	WSAU	1370	Wausau, Wis.	6:55-7:10	KROY	1210	Sacramento, Calif.
4:50-5:05	KNEL	1500	Brady, Texas				
	WLAP	1420	Lexington, Ky.		<b>Second Friday</b>		
4:55-5:10	KFDM	560	Beaumont, Texas	3:00-3:15	WVSF	1370	Buffalo, N. Y.
	WFAM	1200	South Bend, Ind.	3:05-3:20	WJAC	1310	Johnstown, Pa.
5:00-5:15	KPDN	1310	Pampa, Texas	3:10-3:25	WJTN	1210	Jamestown, N. Y.
5:05-5:20	KPLT	1500	Paris, Texas	3:15-3:30	WBLK	1370	Clarksburg, W. Va.
	WCBS	1420	Springfield, Ill.	3:20-3:35	WLEU	1420	Erie, Pa.
5:10-5:25	KGKO	570	Wichita Falls, Tex.	3:25-3:40	WCAP	1280	Asbury Park, N. J.
5:15-5:30	KFPL	1310	Dublin, Texas		WSAY	1210	Rochester, N. Y.
	WDWS	1370	Champaign, Ill.	3:30-3:45	WDEV	550	Waterbury, Vt.
5:20-5:35	KAWM	1500	Gallup, N. Mex.		WGH	1310	Newport News, Va.
	WPAD	1420	Paducah, Ky.	3:35-3:50	WCNW	1500	Brooklyn, N. Y.
5:25-5:40	KGLO	1210	Mason City, Iowa		WMBS	1420	Uniontown, Pa.
	WJBC	1200	Bloomington, Ill.	3:40-3:55	WFAS	1210	White Plains, N. Y.
5:30-5:45	KRRV	1310	Sherman, Texas		WMBG	1350	Richmond, Va.
	WGL	1370	Fort Wayne, Ind.	3:45-4:00	WOKO	1430	Albany, N. Y.
5:35-5:50	KGKY	1500	Scottsbluff, Neb.		WRAW	1310	Reading, Pa.
5:40-5:55	WIBU	1210	Poynette, Wis.	3:50-4:05	WDAS	1370	Philadelphia, Pa.
					WSYB	1500	Rutland, Vt.
				3:55-4:10	WNBZ	1200	Saranac Lake, N.Y.
					WSYR	570	Syracuse, N. Y.
				4:00-4:15	WBRE	1310	Wilkes-Barre, Pa.
				4:05-4:20	WBTM	1370	Danville, Va.
					WNLC	1500	New London, Conn.
				4:10-4:25	WGBB	1210	Freeport, N. Y.
					WHEC	1430	Rochester, N. Y.
				4:15-4:30	WTHT	1200	Hartford, Conn.
				4:20-4:35	WMBQ	1500	Brooklyn, N. Y.
					WRAK	1370	Williamsport, Pa.
				4:25-4:40	WBOW	1310	Terre Haute, Ind.
					WGNV	1210	Newburgh, N. Y.
				4:30-4:45	WJBL	1200	Decatur, Ill.
				4:35-4:50	KATE	1420	Albert Lea, Minn.
					WKBB	1500	Dubuque, Iowa
				4:40-4:55	KARK	890	Little Rock, Ark.
					WJIM	1210	Lansing, Mich.
				4:45-5:00	WEXL	1310	Royal Oak, Mich.
					WHLB	1370	Virginia, Minn.
				4:50-5:05	KIUN	1420	Pecos, Texas
				4:55-5:10	KFJB	1200	Marshalltown, Iowa
				5:00-5:15	KGGM	1230	Albuquerque, N. M.
					WBEO	1310	Marquette, Mich.
				5:05-5:20	KGIW	1420	Alamosa, Colo.
					WKBV	1500	Richmond, Ind.
				5:10-5:25	KGDE	1200	Fergus Falls, Minn.
					WHBF	1210	Rock Island, Ill.
				5:15-5:30	KGFL	1370	Roswell, N. Mex.
					WEMP	1310	Milwaukee, Wis.
				5:20-5:35	KEUB	1420	Price, Utah
				5:25-5:40	WCAT	1200	Rapid City, S. D.
					WEBQ	1210	Harrisburg, Ill.
				5:30-5:45	KWYO	1370	Sheridan, Wyo.
				5:35-5:50	KIDW	1420	Lamar, Colo.
				5:40-5:55	KFXJ	1200	Grand Junction, Colo.
				5:45-6:00	KGBX	1230	Springfield, Mo.
				5:50-6:05	KRQA	1310	Santa Fe, N. Mex.
					<b>Second Saturday</b>		
				3:35-3:50	WKBZ	1500	Muskegon, Mich.
				3:40-3:55	WJW	1210	Akron, Ohio
				3:45-4:00	WBNS	1430	Columbus, Ohio

3:50-4:05	WGAR 1450	Cleveland, Ohio	KVOL 1310	Lafayette, La.	
	WOIS 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.
	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.
	WQBC 1360	Vicksburg, Miss.		WROL 1310	Knoxville, Tenn.
4:05-4:20	WJBO 1120	Baton Rouge, La.	6:15-5:30	KMLB 1200	Monroe, La.
	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.
	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, Iowa
	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.
	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.
	WHBU 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.
	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.
	WNAD 1010	Norman, Okla.	6:15-6:30	KGEZ 1310	Kallispell, 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.
	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.
	WMBR 1370	Jacksonville, Fla.	6:45-7:00	KINY 1310	Juneau, Alaska
	WMPC 1200	Lapeer, Mich.	6:50-7:05	KFQD 780	Anchorage, Alaska
4:50-5:05	KGCA 1270	Decorah, Iowa	6:55-7:10	KRLC 1390	Lewiston, Idaho
4:55-5:10	KOCA 1210	Kilgore, Texas			

## 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 publica-

tion in this column are eligible for one of the prizes listed in the September issue of RADEX.

## The DX Reporter

THE 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.

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## 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	P—Police
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).  
Du—Dutch  
Eng—English  
Fr—French  
Ger—German  
It—Italian  
Jap—Japanese  
Port—Portuguese  
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 each. (X) means the station will not verify.



		Mystery of Life." add: Aptdo 2874. Hrs: 7:30 p.m.-midnt. Addis Ababa, Ethiopia. (C).	13410	HHS WCT	Port-au-Prince, Haiti. (C). San Juan, Puerto Rico. 400 w. Add: Radio Corp. of P. R.
11955	IUC	Trujillo, D. R. 500 w. (B).	13530	TDH	Shinkio, Manchukuo. (C). Manchukuo Teleg. & Teleph. Co., Ltd.
11960	HI2X	Relays HIX. Owner: J. R. Saladin, Mgr., for Dominican Gov't. Hrs: Sun., 7:40-10:40 a.m.; Tues., Fri., 8-10 p.m.	13585	GBB	Rugby, Gt. Britain. See GDP on 7920.
12000	RNE	Moscow, U.S.S.R. 20 kw. (B). Programs in Czech, Dutch, Eng, Fr, Ger, Hungarian, Ru, Sp, Swedish. Int: Kremlin chimes on even hours. s/o: "Internationale." Add: Sollanka 12.	13635	SPW	Warsaw, Poland. 10 kw. (B). Int: "The Haunted Castle." Add: Polskie Radjo, 5 Mazowiecka St. Hrs: 6-7 p.m. (X) Bollnas, Calif. (C).
12120	TPZ	Algiers, Algeria. (B and C). Add: L'Engineur en Chef des P. T., T., 137 Rue de Constanting, Alger.	13690	KKZ	(X) Bollnas, Calif. (C).
12150	GBS	Rugby, Gt. Britain. 15 kw. (C). See GDP on 7920.	13745	CGA2	Drummondville, P. Q. (SS).
12235	TFJ	Reykjavik, Iceland. 7500 w. (B). Add: Icelandic State Brdestg. Service., Box 547. Hrs: Sun., 1:45-2:30 p.m.	13760	TYE2	Pontoise, France. 20 kw. (C). Add: Societe Francalse Radlo-Electrique, 79 Blvd. Haussmann, Paris.
12290	GBU	Rugby, Gt. Britain. (C). See GDP on 7920.	13780	KKW	(X) Bollnas, Calif. (C).
12330	****	Pacific Alaska Airways	13820	SUZ	Cairo, Egypt. (Abu Zabal). (C).
12500	HIN	Pan American Airways Trujillo, D. R. 750 w. (B). s/o: Nat'l anthem. Add: Aptdo 604.	13880	VJZ	Raboul, New Guinea. (C).
12630	NAA	Arlington, Va. Time signals at 9:55 a.m.	13900	WQP	(X) Rocky Point, N. Y. (C).
12675	.....	Guayaquil, Ecuador. (B). "Radio Paris."	13980	TDC	Shinkio, Manchukuo. (C).
12680	.....	Duala, French Cameroons. (C)	13986	DJS	Berlin, Germany. (Zeese). (E). See DJN on 9540 kcs.
12765	VP&LO	Basseterre. St. Kitts, B.W.I. 600 w. (B).	13990	GBA2	Rugby, Gt. Britain. (C). See GDP on 7920.
12830	CNR	Rabat, Morocco. 12 kw. (C). Add: Direction de l'Office des Postes, des Telegraphes et des Telephones.	14050	EA9AH	Tetuan, Sp. Morocco. 500 w. (B). Add: F. Diaz Gomez, Aptdo 124.
12840	WOO	(X) Ocean Gate, N. J. 20 kw. (SS).	14000		to
12862	W9XDXH	Elgin, Ill. (Ex). Press Wireless, Inc.	14400		AMATEURS
12870	VVS	Mingaladon, Burma. 1500 w. (C). Add: Mingaladon Radio, 15th Mile, Prome Road, near Rangoon.	14420	HC1JB	Quito, Ecuador. (B). "Radio Rodante." Add: Clarence W. Jones, Casilla 691.
12885	NPG	San Francisco, Calif. Time signals at 11:55 a.m.	14440	GBW	Rugby, Gt. Britain. 15 kw. (C). Add: G.P.O. (Radio Section), Armour House, St. Martin's le Grand, London EC1.
12998	TYC1	Ste. Assise, France. (C). L'Engineur en Chef, Directeur de Service de la Telegraphie sans Fil, 5 rue Froidvaux (14e) Paris.	14460	DZH	Berlin, Germany. (Zeese). (E).
13040	.....	German Shps. Same as 8830 kcs.	14470	WDO	(X) Ocean Gate, N. J. 20 kw. (C).
13050	.....	Italian Shps.	14480	YNA	(X) Lawrenceville, N. J. (C).
		IBEG, S. S. "Conte Rosse"	14485	HJA3	Managua, Nicaragua. (C).
		IBGI, S. S. "Conte Verde"		HPF	Bogota, Colombia. (C).
		IBLI, S. S. "Conte di Savola"		HRM5	Panama City, Panama. (C).
		ICEJ, S. S. "Rex"		HRM	La Lima, Honduras. (C).
13075	VPD	Suva, Fiji. (B and C). "Radio Suva." s/o: "God Save The King." Add: Amalgamated Wireless, (A/sia) Ltd., Suva.		YSJ	Tegucigalpa, Honduras. (C). San Salvador, E. S. (C). Add: Telegrafos, Telefonos y Radio Nacionales.
13190	FNSK	S. S. "Normandle." (SS). Add: French Lines, Pier 88, North River, Foot of W. 48th St., NYC. S. S. "Europa." 70 w. (SS).	14500	LSM2	Buenos Aires, Argentina. (C). Add: Cla. Internacional de Radio, S. A., Defensa 143.
13210	DOAI FNSK	S. S. "Normandle." (SS). See FNSK on 13190 kcs.	14530	LSN1	Buenos Aires, Argentina. (C). Add: See LSM2 above.
13260	VVN	Fort Madras, India. 750 w. (C). Hrs: Works VVS 10 p.m.-7 a.m.	14535	HBJ	Geneva, Switzerland. (Prangins). (B and C). "Radio Nations." Add: Information Section, League of Nations.
	ZMBJ	T. S. S. "Awatea." (SS). Add: Union S. S. Co. of N. Z., Ltd.	14545	TGF TIU	Guatemala City, Guat. (C). Cartago, Costa Rica. (C). Add: Cla. Radiografica Internacional de C. R.
13320	.....	British Shps. Same as 8830 kcs.	14590	WMN	(X) Lawrenceville, N. J. 20 kw. (C).
13337	YVQ	Maracay, Venezuela. (C).	14635	GBL	Rugby, Gt. Britain. (C). See GBW on 14440 kcs.
13350	IDU	Asmara, Eritrea. (C)	14640	JVH	Nazaki, Japan. 20 kw. (C).
			14800	WQV	(X) Rocky Point, N. Y. (C).
			14845	OCJ2	Lima, Peru. (C).
			14900	LZA	Sofia, Bulgaria. 1500 w. (B). s/o: nat'l anthem.
			14910	JVG	Nazaki, Japan.
			14930	HJB PSE	Bogota, Colombia. (C). Rio de Janeiro, Brazil. (C).
			14940	HIR HJA3	Trujillo, Dominican Rep. (C). Barranquilla, Colombia. (C).
			14960	YSL	San Salvador, E. S. (C). Telegrafos, Telefonos y Radio Nacionales.

14980	KAY	(X) Manila, Philippine Isl. (C).			
15000	WWV	Beltsville, Md. Standard frequency transmissions irregularly.			
15040	RKI	Moscow, U.S.S.R. (B). Add: Radio Centre, Solianka 12. Hrs: 7-9:15 p.m.			
15055	WNC	(X) Hialeah, Fla. 400 w. (C).	15290	LRU	tune. s/o: "Horst Wessel Lied" and "Deutschlandlied." Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.
15080	RKI	Moscow, U.S.S.R. (C).			Buenos Aires, Argentina. 5 kw. (B). "Radio El Mundo." Add: Calle Maipu 555.
15110	DJL	Berlin, Germany. (Zeesen). (B).	15300	LYZA	Kaunas, Lithuania.
15116	OLR5C	Prague, Czechoslovakia. 35 kw. (B).	15310	GSP	London, Gt. Britain. (Davenport). 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 Brdcastg. Corp., London W1.
15120	HVJ	Vatican City. 10 kw. (B). Int: ticking of clock. Ann: "Laudatur Jesus Christus." Add: Pontificia Accademia Della Scienze, Roma-Castina Pio IV. Hrs: 10:30-10:45 a.m.	15320	OLR5B	Praha, Czechoslovakia. (Podebrady). 35 kw. (B). "Radio Podebrady." Add: Praha XII, Fochova Tr. 16.
15130	TPB6	Paris, France. (Essarts). (B). "Paris Mondial".	15330	W2XAD	Schenectady, N. Y. 25 kw. (B). Relays NBC-WGY. Add: General Electric Co.
15140	GSF	London, Gt. Britain. (Davenport). 15 kw. (B). "F for Fortune." For more data see GSB on 9510 kcs. Hrs: 2-4:15 a.m.; 5:45 a.m.-noon.		W6XBE	Belmont, Calif. 20 kw. (B). General Elec. Co.
15150	YDC	Bandoeng, Java, N.E.I. 3 kw. (B).	15340	DJR	Berlin, Germany. (Zeesen). 50 kw. (B). See DJQ on 15310.
15155	SM5SX	Stockholm, Sweden. 500 w. (B). s/o: Nat'l anthem. Add: Telegrafverket Tjanstebrev Nr. 5. Hrs: Sun. 9 a.m.-5 p.m. Week-days, 11 a.m.-5 p.m.	15355	KWU	(X) Dixon, Calif. 15 kw. (C).
15160	JZK	Tokyo, Japan. (Nazaki). 50 kw. (B). See JZJ on 11800.	15360	DZG	Berlin, Germany. (Zeesen). (E). See DJQ on 15280.
	XEWW	Mexico City, D. F. 10 kw. (B). "La Voz de la America Latina desde Mexico." Add: Aptdo 2516.	15370	HAS3	Budapest, Hungary. 20 kw. (B). "Justice for Hungary!" Ann: usually by lady, in Eng, Fr, Hungarian. s/o: Nat'l anthem. Add: Radiolabor, Kiserleti Alhomas, Gyali-ut 22, Budapest IX. (X) Dixon, Calif. 20 kw. (C).
15170	CXA14	Montevideo, Uruguay. (B)	15415	KWO	Mazatlan, Stn., Mexico. 50 w. (B). "El Pregonero del Pactico." Relays XEBL. Int: 4 chimes. s/o: "Quimbamba." Add: Difusora del Pactico, S. A., Aptdo. 78.
	TGWA	Guatemala City, Guat. 10 kw. (B). "The Voice of Guat." Add: Ministerio de Fomento. Verles FREE.	15440	XBBM	Shanghai, China. (C).
	.....	Lima, Peru. (B). "Radio Nacional."	15800	XOJ	Buenos Aires, Argentina. (C).
15180	GSO	London, Gt. Britain. (Davenport). "O For Ocean." For more data see GSB on 9510 kcs.	15810	LSL3	Shinkio, Manchukuo. (C).
15200	DJB	Berlin, Germany. (Zeesen). 40 kw. (B). For more details see DJN on 9540 kcs.	15905	TD1	(X) Kahuku, Hawaii. 50 w. (C).
15210	W8XK	Pittsburgh, Pa. (Saxonburg). 40 kw. (B). Relays NBC-KDKA. Add: Westinghouse Elec. & Mfg. Co., Grant Bldg.	16140	GBX	Rugby, Gt. Britain. (C).
15220	PCJ	Hulzen, Netherlands. 20 kw. (B). Ann: Dutch, Eng, Fr, Ger, Malay, Port, Sp. s/o: Nat'l anthem.	16440	****	Pan American Airways
15230	OLR5A	Praha, Czechoslovakia. (Podebrady). 35 kw. (B). Add: Praha XII, Fochova Tr. 16.	16460	DHEY	Pacific Alaska Airways
15243	TPA2	Paris, France (Essarts). (B). "Paris Mondial." Add: Ministere des Postes, Telegraphes et Telephones, 98 bis Blvd. Hausmann, Paris. Hrs: 5-10 a.m.	16600	DOAI	S. S. "Deutschland." (SS).
15250	W1XAL	Boston, Mass. 20 kw (B). "Dedicated to Enlightenment." Add: Educational Director, University Club.	16765	DHTY	S. S. "Europa." (SS).
15260	GSI	London, Gt. Britain. (Davenport). (B). "I for Ireland." See GSB on 9510 for details.	16820	NAA	S. S. "Resolute." (SS).
15270	H13X	Trujillo, D. R. 500 w. (B). Relays HIX. Director: J. R. Saladin.	17080	GBC	Arlington, Va. Time signals at 9:55 a.m. EST.
	W2XE	New York, N. Y. (Wayne. N. J.). 10 kw. (B). See W2XE on 11830 kcs.	17120	WOO	Rugby, Gt. Britain. 5 kw. (C). (X) Rocky Point, N. Y. 20 kw. (SS).
15280	DJQ	Berlin, Germany. (Zeesen). 50 kw. (B). Int: music box	17225	ICEJ	S. S. "Rex." (SS).
			17280	FZE8	Djibouti, French Somaliland. Add: Chef de la Radiotelegraphique Djibouti. Hrs: First Thurs. each month, 8-8:30 a.m.
			17310	W2XGB	Hicksville, N. Y. 5 kw. (E). Add: Press Wireless, Inc.
				W3XL	New York, N. Y. (Bound Brook, N. J.). 20 kw. (E).
			17375	LSY	Buenos Aires, Arg. (C).
			17480	VWY2	Kirkee, Poona, India. (C). Add: Indian Radio & Cable Communications Co., Ltd., Poona 6.
			17640	PZF	Paramaribo, Surinam. (C).
			17650	XGM	Shanghai, China. (C).
			17755	ZBW5	Hong Kong. 2400 w. (B). Add: Box 200.
			17760	DJE	Berlin, Germany. (Zeesen.) 50 kw. (B). See DJQ on 15310.
				W2XE	New York, N. Y. (Wayne, N. J.). 10 kw. (B).
			17765	TPB3	Paris, France. (Essarts). (B). "Paris Mondial."



17770	PHI	Hilversum, Netherlands. 23600 w. (B). Ann: Dutch, Eng, Fr, Ger, Malay, Port, Sp. s/o: Nat'l anthem. Add: Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven.			
17780	W3XAI	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.			
	W8XK	(X) Pittsburgh, Pa. (Saxonburg). 40 kw. (B).			
	W9XAA	Chicago, Ill. 5 kw. (B).			
	W9XF	Chicago, Ill. (Downer's Grove). 10 kw.			
	.....	Paris, France. (Essarts). (B). "Paris Mondial."			
17785	JZL	Tokyo, Japan.			
17790	G8G	London, Gt. Britain. (Davenport). 15 kw. (B). "G for Greeting." See GSP on 15310 for details.			
17800	TGWA	Guatemala City, Guat. 10 kw. (B).			
18090	TYE	Pontoise, France. 20 kw. (C). See TYE2 on 13760.			
18270	IUD	Addis Ababa, Ethiopia. (C).			
18310	GAS	Rugby, Gt. Britain. (C).			
18350	WLA	(X) Lawrenceville, N. J. (C).			
18385	FZS	Saigon, Fr. Indo-China. (C).			
18450	HBF	Geneva, Switzerland. (B). "Radio Nations"			
18480	HBH	Geneva, Switzerland. (Prangins). (B). "Radio Nations."			
18620	GAU	Rugby, Gt. Britain. (C).			
18680	OCC2	Lima, Peru. (C). All America Cables, Inc., Casilla 2336.			
18830	PLE	Bandoeng, Java, N.E.I. 40 kw. (C).			
18890	ZSS	Cape Town, Union of So. Africa (Kilpheuvel). (C). Add: Overseas Communications of S. A., Ltd., Kodak House, Box 962. Rugby, Gt. Britain. (C).			
18970	GAQ	Bangkok, Slam. 5 kw. (B). Ann: Eng, Fr, Siamese. Int: 3 ascending ohmes. Add: Post & Telegraph Dept.			
19020	H88PJ	(X) Dixon, Calif. 20 kw. (C).			
19080	KNY	Buenos Aires, Argentina. (C).			
19140	LSM3	(X) Ocean Gate, N. J. 20 kw. (SS).			
19220	WDP	Rugby, Gt. Britain. (C).			
19480	GAD	Rome, Italy. (C).			
19520	IRW	Nairobi, Kenya. (C). Add: Cable & Wireless, Ltd., Box 777.			
19630	VQG	Nauen, Germany. (C). Add: Berlin W88, Lelpziger Str. 15			
20020	DFZ	Rugby, Gt. Britain. 15 kw. (C).			
20380	GAA	Buenos Aires, Arg. (C).			
21020	LSN6	Buenos Aires, Arg. (Hurlingham). (C).			
21160	LSL4	Praha, Czechoslovakia. (B).			
21450	OLR6A	Roston, Mass. 10 kw. (B).			
21460	W1XAL	London, Gt. Britain (Davenport). (B). "H For Home." See GSP on 15310.			
21470	GSH	Schenectady, N. Y. 50 kw. (B). General Elec. Co. Hrs: 8 a.m.-noon.			
21500	W2XAD	Nazaki, Japan			
21520	JZM	New York, N. Y. (Wayne, N. J.). 10 kw. (B).			
	W2XE	Philadelphia, Pa. (Newtown Square). (B).			
	W3XAU	London, Gt. Britain. (Davenport). (B). "J For Justice." See GSP on 15310.			
21530	G8J	Pittsburgh, Pa. (Saxonburg). 40 kw. (B).			
21540	W8XK	London, Gt. Britain. (Davenport). (B). "T for Transmitter." See GSP on 15310.			
21550	G8T	Spartanburg, S. C. 50 w. (B). Relays WSPA.			
25950	W4XH	Los Angeles, Calif. 100 w. (B). Relays KGFJ.			
	W6XKG	St. Paul, Minn. 1 kw. (B). Relays KSTP.			
	W9XUP	High Frequency Broadcast.			
26050	****	London, Gt. Britain. (Davenport). (B). "K for King." See GSP on 15310.			
26100	G8SK	Superior, Wis. 80 w. (B). Relays WEBC.			
	W9XJL	Milwaukee, Wis. 500 w. (B). Relays WTMJ.			
26400	W9XAZ	High Frequency Broadcast			
26500	****	Flushing, N. Y. 100 w. (B). Relays WMCA.			
26550	W2X(Q)				
28000		AMATEURS			
30000					
30100	****	Ultra High Freq. Police			
30604	IAG	Golfo Aranci, Sardinia. 5 kw.			
31100	****	High Frequency Broadcast			
31600	****	High Frequency Broadcast			
	****	High Frequency Police			
31900	****	High Frequency Police			
33100	****	High Frequency Police			
34100	K6XCG	Manawabua, Hawaii. 150 w. (C). Mutual Telephone Co.			
34800	****	High Frequency Broadcast			
35200	K8XCC	Waikiki, Hawaii. 150 w. (C). Mutual Tele. Co.			
35600	.....	New York City Fire Boats, as follows:			
	W2XNA	"James Duane"			
	W2XNB	"Thomas Willett"			
	W2XNC	"William Stroag"			
	W2XND	"George McClellan"			
	W2XNE	"William Gaynor"			
	W2XNF	"John P. Mitchel"			
	W2XNG	"Abram Hewitt"			
	W2XNH	"John Harvey"			
	W2XNI	"Cornelius Lawrence"			
	W2XNJ	Tender "Captain Connell"			
	****	High Frequency Police			
	****	High Frequency Broadcast			
37100	****	High Frequency Police			
37600	****	High Frequency Broadcast			
38100	****	High Frequency Police			
38600	****	High Frequency Police			
	****	High Frequency Broadcast			
38900	****	High Frequency Broadcast			
39100	****	High Frequency Broadcast			
39300	****	High Frequency Broadcast			
39500	****	High Frequency Broadcast			
40100	****	High Frequency Police			
40300	****	High Frequency Broadcast			
40600	****	High Frequency Broadcast			
41000	****	High Frequency Police			
41800	.....	Lanai City, Hawaii. 50 w. (C). Mutual Telephone Co.			
	****	High Frequency Broadcast			
56000		AMATEURS			
60000					
86000					
	to				
	****	High Frequency Police			
400000					
88000	****	High Frequency Broadcast			
110000					
	to				
	Infintly				
123000	****	High Frequency Broadcast			
164000	****	High Frequency Broadcast			
205000	****	High Frequency Broadcast			
401000					
	and				
	****	High Frequency Police			
	above				

# 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**  
**C — Boake Carter**

KDAL KFAB KFH KGKO KGLO  
 KLRA KMBC KMOX KNOW KOMA  
 KRLL 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 WKBH WKBN WKBW WKRC  
 WLAC WMBD WMBR WNAX  
 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 KBAL WBZ WBZA  
 WFLA WIOD WJAX WJZ WLW  
 WMAL WOOD WRVA WSYR WTAM  
 WXYZ

**C — Lum and Abner**

KFAB KMBC KMOX KNOW KOMA  
 KRLL KRNT KTRH KTSa KTUL  
 WABC WBBM WBNS WBT WCAO  
 WCAU WCOA WDAE WDBJ WDRC  
 WEEI WFBL WFBM WGAR WGST  
 WHAS WHEC WHIO WJR WJSV  
 WKBW WKRC WLAC WMBR WOKO  
 WPRO WQAM 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**

KSP KSTP KYW WBEN WCAE  
 WCSH WFAF 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 KFJR KGBX KGNC KPRC  
 KSTP KTBS KTHS KVOO KYW  
 WBAP WBEN WCAE WCKY WCOL  
 WCSH WDAF WDAY WEAF WECB  
 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**

**C — Eddie Cantor; Deanna Durbin**  
 KDAL KFAB KFH KGKO KGLO  
 KLRA KMBC KMOX KNOW KOMA  
 KRLL 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 WKSJ WKBH  
 WKBN WKRC WLAC WLZ WMAS  
 WMBD WMBR WMFG WMMN  
 WNAX WNBW WNBX WNOX WOC  
 WOKO WORC WPRO WQAM WREC  
 WRVA WSFA WTAQ WTOC WWL

**M — The Lone Ranger**

WFIL WNBW 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 WLZ WMAS  
 WMFG WNAX WNBX WOC WOKO  
 WORC WPRO

**R — Burns and Allen**

CRCT KYW WBEN WCAE WCSC  
 WCSH WFAF WFBR WFLA WGY  
 WHO WIOD WIRE WIS WJAR  
 WJAX WLW WMAQ WNAC WPTF  
 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  
 WKRC WLZ WMAS WNAC WOKO  
 WORC WSPD

**R — Voice of Firestone**

CFCF CRCT KFJR KPRC KSD  
 KSTP KTBS KVOO KYW WAVE  
 WBEN WCAE WCSC WCSH WDAF  
 WDAY WFAF WECB WEEI WFAA  
 WFBC WFBR WFLA WGY WHO  
 WIBA WIOD WIRE WIS WJAR  
 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  
 WREN WSPD WSYR WTAR WXYZ

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**

**C — Boake Carter**  
 KFPY KGAR KIRO KLZ KNX  
 KOIN KOY KSFO KSL KVI KVOZ

**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  
 KRLL KRNT KSFO KSL KTRH  
 KTSa KTUL KVI WABC WADC  
 WBBM WBNS WBRW WBT WCAO  
 WCCO WDAE WDBJ WDRC WEEI  
 WFBL WFBM WGAR WGST WHAS  
 WHEC WHIO WIBX WISN WJAS  
 WJR WJSV WKBW WKRC WLAC  
 WMAS WMBD WNAX WOKO WORC  
 WPRO WQAM WREC WRVA WWL  
 Also on Canadian Network

**R — Phil Spitalny's Girl Orchestra**

CBL CBM KDYL KFI KGHL KGIR  
 KGW KHQ KIDO KOA KOMO KPO  
 KPRC KSD KSEI KSTP KTAZ  
 KVOO KYW WAVE WBEN WBRW  
 WCAE WCSH WDAF WDEL WFAF  
 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  
 WWJ

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

**R — Contented Program**  
 CFCF CRCT KDYL KFI KGW KHQ  
 KOA KOMO KPO KPRC KSD KYW  
 WBEN WCAE WCSH WDAF WFAF  
 WEEI 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

**C — Wayne King and Orchestra**

KDB KERN KFAB KFBK KFPY  
 KFRG 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  
WKWB WKRC WOKO WSPD WWSL

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

**C — Eddie Cantor; Deanna Durbin**  
KFPY KGAR KIRO KLZ KNX  
KGIN KOY KSFO KSL KVI WFBM

**R — Burns and Allen**  
KARK KDYL KFBK KFI KFYZ  
KFBX KGHL KGIR KGNC KGO  
KGW KHQ KMJ KOA KOMO 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 KPRC KFXM KGB  
KGDH 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 KPRC  
KGB KHJ KLRA KLZ KMBC KMOX  
KGIN KOL KOMA KRLL 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**

**C — Pick and Pat**

KFPY KGKO KLRA KLZ KMOX  
KNX KGIN KOL KOMA KRLL  
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**

**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**

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

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

**C — Geo. McCall, Hollywood Talk**  
KFAB KFH KLRA KMOX KNOW  
KOMI KRLL KRNT KTRH KTSI  
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  
WQAM WREC WRVA WWL

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

**C — Helen Menken, Drama**  
KFAB KFPY KIRO KLZ KMBC  
KMOX KNX KGIN 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  
WJZ WSYR

**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

**C — Edward Robinson; Claire Trevor**

CBM CFRB KFAB KFH KFPY  
KIRO KLRA KLZ KMBC KMOX  
KNOW KNX KGIN KOMA KRLL  
KRNT KSFO KSL KTRH KTSI  
KTUL KVI WABC WADC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDRC WEEI  
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  
Also on Canadian Network

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

**C — Al Jolson; Parkyakarkus**

CFRB CROM KFAB KFH KLRA  
KMBC KMOX KNOW KOMA KRLL  
KRNT KTRH KTSI KTUL WABC  
WADC WBBM WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDRC WEEI 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

Also on Canadian Network

**R — Wayne King and Orchestra**

KFYR KPRC KSD KSTP KTBS  
KVOO KYW WAVE WBAP WBEN  
WCAE WCKY WCSH WDAF WDAY  
WEAF WEBC WEEI 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**

**C — Al Pearce and Gang**

CFRB CKAC KFAB KFH KGKO  
KLRA KMBC KMOX KOMA KRLL  
KRNT KSCJ KTRH KTSI 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 WLWB WMAS WMBD WMBG  
WMBR WMMN WNAC WNAX  
WNBF WNOX WOC WOKO WORC  
WOW WPG WQAM WREC WSBT  
WSFA WSJS WSPD WTOC WWL

**R — 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 WJAX WJZ WKY WLS  
WLW WMAL WMC WMT WOAI  
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**

**C — Benny Goodman's Orchestra**

KFAB KFH KFPY KGKO KIRO  
KLRA KLZ KMBC KMOX KNOW  
KNX KGIN KOMA KOY KRLL  
KRNT KSCJ KSFO KSL KTRH  
KTSI KTUL KVI KWOR KWKH  
WABC WACO WADC WALA WBBM  
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 WKBH  
WKBN WKBW WKRC WLAC WLBZ  
WMAS WMBD WMBR WNAX  
WNBZ WNOX WOC WOKO WORC  
WPG WPRO WQAM WREC WRVA  
WSBT WSFA WSJS WTOC WWL

**R — Fibber McGee and Molly**

CFBC CRCT KDYL KFI KGHL  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KVOO  
KYW WAVE WBAP WBEN WCAE  
WCOL WCSH WCSH WDAF WDEL  
WEAF WEBC WFBM WFLA WGY  
WHO WIBA WIOD WIRE WIS  
WJAR WJAX WKY WMAQ WMBG  
WMC WNAC WOAI WOOD WOW  
WRC WSB WSM WSMB WSOC  
WTAG WTAM WTAR WTIC WTMJ  
WWJ

**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 KTSI KVOO KWG KYW  
WAVE WBAP WBEN WBRC WBRE  
WCAE WCOL WCSH WDAF WDAY  
WDEL WEAF WEBC WFBM WFLA  
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 KHQ KOA KOMO  
KPO KSD KSTP KYW WBNB WCAE  
WCSH WDAF WDEL WFAE WFBW  
WGY WIIO 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  
KGIN KSFO KSL KVI

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

**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

## WEDNESDAY

**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  
KPRC KGB KIH KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KRNT  
KSL KVI KWG WABC WBBM  
WBNS WCAU WCCO WDRC WEAN  
WFBL WFBM WGR WHAS WHEC  
WHK WJAS WJR WJSV WKRC  
WLAC WMBG WNAC WOKO WTOC  
WWL

**R — One Man's Family**  
KDYL KFI KFYP KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTAR KTBS KTHS KVOO KYW  
WAPI WAVE WBAP WBNB WCAE  
WCSH WDAF WDAY WFAE WFCB  
WEEI WFAA WFBW WFLA WGY  
WJO WJBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOI 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 KFH KFPY  
KGAR KGKO KGLO KIRO KLRA  
KLZ KMBC KMOX KNOW KNX  
KOH KOIN KOMA KOY KRLD  
KRNT KSCJ KSFO KSL KTRH  
KTSa KTUL KVI KVOR KWKH

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

**B — Harriet Parsons**  
KDKA KECA KFEL KFSB KGA  
KGO KJR KLO KOIL KSO KWK  
WBAL WBZ WBAZ WCKY WEAN  
WEBR WFIL WHAM WHK WICC  
WJZ WLS WMAL WMT WOWO  
WREN WSPD WSYR WXYZ

**R — Tommy Dorsey Orchestra**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KPRC KSD KSTP KTBS KYW  
WAVE WBNB WBRW WCAE WCSH  
WDAF WDEL WFAE WFAA WFBW  
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**  
**C — Chesterfield; Andre Kostelanetz**  
KDB KERN KFAB KFBK KFH  
KFPY KPRC KGB KGKO KGM  
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 WBRW WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDDO WDRC WEAN  
WFBL WFBM WFAA WGST WHAS  
WHEC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBH WKBW WKRC WLAC WLBZ  
WMAS WMBD WMBG WMBR  
WNAC WNAX WNBW WNOX WOC  
WOKO WORC WJWS WPG WQAM  
WREC WSFA WSJS WSPD WTOC  
WWL

**R — Town Hall Tonight**  
KFYP KPRC KSD KSTP KTBS  
KTHS KVOO KYW WAVE WBNB  
WCAE WCSH WDAF WDAY WFAE  
WFCB WEEI WFAA WFBW WFLA  
WGY WHO WJBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOI WOW WPTF WRC WSM  
WSMB WSOC WTAG WTAM  
WTAR WTIC WTMJ WWJ WWNC

**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 KPRC KGB KHJ KLKA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLD KRNT KSCJ KTRH  
KTSa KTUL KVI KWG KWKH  
WABC WACO WBBM WBNS WBRW  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRC WEAN WFBL  
WFBM WGST WHAS WHEC WHK  
WICC WISN WJAS WJR WJSV  
WKRW WKRC WLAC WLBZ WMBG

WMBR WNAC WOKO WORC WOWO  
WQAM WREC WTOC WWL

**R — Kay Kyser Orchestra**  
Kary KDYL KERN KFBK KFI  
KFYP KGBX KGHL KGIR KGNC  
KGU KGW KHQ KIDO KMJ KOA  
KOB KOMO KPO KPRC KSD KSEI  
KSTP KTAR KTBS KTHS KTSM  
KWG KYW WAVE WBNB WBRW  
WCAE WCCO WCSH WDAF WDAY  
WDEL WFAE WFCB WFAA WFBW  
WFBW WFEA WFLA WGL WGY  
WHO WJBA WIOD WIRE WIS  
WJAR WJAX WJDX WKY WLW  
WMAQ WMBG WMC WNAC WOI  
WOOD WORK WOW WPTF WRC  
WSB WSM WSMB WSOC WSUN  
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 WNBW WOC WOKO WORC  
WPRO

**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  
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. McCall, see Tues.**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — "Wa, The People."**  
KFAB KMBC KMOX KNOW KOMA  
KRLD KRNT KSCJ KTRH KTSa  
KTUL WABC WBBM WBNS WCAO  
WCAU WCCO WDAE WDBO WDRC  
WEEI WFBL WGAR 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 CRMC KDAL KFAB KFH  
KGKO KLRA KMBC KMOX KNOW  
KOMA KRLD KRNT KSCJ KTRH  
KTSa KTUL KWKH WABC WACO  
WADC WBBM WBNS WBRW WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDRC WEEI WEOA  
WFBL WFBM WGAR WGR WGST  
WHAS WHEC WHIO WHP WIBW  
WISN WJAS WJR WJSV WKBW  
WKRC WLAC WLBZ WMBD WMBR  
WNAX WNOX WOC WOKO WORC  
WPRO WQAM WRVA WREC WSFA  
WTAQ WWL

## THURSDAY (Continued)

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

**B — The March of Time**  
 KDKA KECA KERN KFBK KFEL  
 KPSD KGA KGO KJR KLO KMJ  
 KOIL KSO KWG KWK KXYZ  
 WABY WAGA WBAL WBZ WBZA  
 WCKY WCOL WCSO WDSU WEAN  
 WEBR WFIL WHAM WHK WICC  
 WJZ WLS WMAL WMPX WMT  
 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**  
**C — Major Bowes' Amateurs**  
 CFRB CKAC KDB KERN KFAB  
 KFBK KFH KFPY KFRC KGB  
 KGKO KLRA KLZ KMBC KMJ  
 KMOX KOIN KOL KOMA KRLD  
 KRNT KSCJ KSL KTRH KTSB  
 KTUL KVI KVOR KWG KWKH  
 WABC WACO WADC WALA WBBM  
 WBIG WBNS WBRW WBT WCAO  
 WCAU WCCO WCOA WDAE WDBJ  
 WDBO WDNC WDOO 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 WQAM WREC  
 WSFA WSJS WSPD WTOG WWL

**R — MGM Program**  
 CRCT KDYL KERN KFBK KFI  
 KFYZ KGHK KGIR KGNC KGW  
 KMJ KOA KOMO KPO KPRC KSD  
 KSTP KTBS KWG KYW WAPI  
 WAVE WBAP WBEN WCAE WCSH  
 WDAF WDAY WIBC 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 KFYZ  
 KGW KHQ KOA KOMO KPO KPRC  
 KSD KSTP KTAR KTBS KTHS  
 KVOO KYW WAVE WBAP WENB  
 WCAE WCSH WDAF WDAY WFAE  
 WIBC 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

## FRIDAY

**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 WFAE WIBC 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**  
**C — Paul Whiteman; Deems Taylor**

KFAB KFH KGKO KLRA KMBC  
 KMOX KOMA KRLD KRNT KSCJ  
 KTRH KTSB KTUL KWKH WABC  
 WACO WADC WALA WBBM WBIG  
 WBNS WBRW WBT WCAO WCAU  
 WCCO WCOA WDAE WDBJ WDBO  
 WDNC WDOO WDRC WEEI WFBL  
 WFBR WFEA WGR WGST WHAS  
 WHEC WHIO WHK WHP WIBW  
 WIBX WISN WJAS WJR WJSV  
 WKBN WKRC WLAC WLBZ WMAS  
 WMBD WMBG WMBR WMMN  
 WNAX WNBW WNOX WOC WOKO  
 WORC WOWO WPG WPRO WQAM  
 WREC WSFA WSJS WSPD WTOG  
 WWL

**B — Death Valley Days**

KDKA KDYL KFI KGW KHQ KOIL  
 KOMO KPO KSO KWK WBAL WBZ  
 WBZA WFIL WGAR WHAM WJZ  
 WLS 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**  
**B — Tim and Irene; G. Olsen**

KDKA KFEL KLO KOIL KPRC  
 KSO KTAR KTBS KVOO KWK  
 WABY WAVE WBAL WBRW WBZ  
 WBZA WCSO WEAN WIBC WEBR  
 WFAA WFBC WFIL WFLA WHAM  
 WHK WICC WIOD WIS WJAX  
 WJDX WJZ WKY WLS WLW WMAL  
 WMC WMT WOAI 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 KTSB KTUL KVI  
 KVOR KWG KWKH WABC WADC  
 WBBM WBNS WBRW 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  
 WMAS WMBD WMBG WMBR  
 WNAC WNAX WNOX WOKO WORC  
 WPG WQAM WREC WSPD WWL

**R — Frank Munn; Abe Lyman**  
 KSD KYW WBEN WCAE WCSH  
 WDAF WFAE 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  
 WFAE 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 KTSB  
 KTUL KVI KVOR KWKH WABC  
 WACO WADC WALA WBBM WBIG  
 WBNS WBRW WBT WCAO WCAU  
 WCCO WCHS WCOA WCOO WDAE  
 WDBJ WDBO WDNC WDOO WDRC  
 WEEI WEOA WFBL WFBM WGAR  
 WGBI WGST WHAS WHEC WHIO  
 WHP WIBW WIBX WISN WJAS  
 WJNO WJR WJSV WKBW WKBW  
 WKRC WLAC WLBZ WMAS WMBD  
 WMBR WMMN WNBW WNOX WOC  
 WOKO WORC WPAR WPG WPRO  
 WQAM WREC WRVA WRSBT WSFA  
 WSJS WTOG WWL

**CBC — Canada 1938**

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

**R — First Nighter; Drama**

KDYL KFI KFYZ KGW KHQ KOA  
 KOMO KPO KPRC KSD KSTP  
 KTBS KTHS KYW WAVE WBEN  
 WCAE WCSH WDAF WDAY WFAE  
 WIBC WEEI 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 WFAE  
 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 WFAE 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 WRZA 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**  
**WDRG WEEI WFBL WFBM WGR**  
**WGST WHAS WHEC WHIO WHK**  
**WHP WISN WJAS WJR WJSV**  
**WKRC WMBD WMBG WMBF WOC**  
**WOKO WPRO WSBT WVVA**

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Prof. Quiz**  
**KDB KERN KFAB KFBK KFPY**  
**KFRC KGB KHJ KLRA KLZ KMBC**  
**KMJ KMOX KOIN KOL KOMA**  
**KRLD KRNT KSL KTRH K TSA**  
**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**

**B — National Barn Dance**  
**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 WPTF**  
**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**  
**C — Saturday Night Serenade**  
**KFAB KFH KFPY KGKO KLRA**  
**KLZ KMBC KMOX KNOW KNX**  
**KOIN KOL KOMA KRLD KSFO**  
**KTRH K TSA KTUL KVI KWKH**  
**WALA WBBM WBIG WBNS WBRG**  
**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**  
**WVVA**

**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 K TSA**  
**KTUL KVI KVOR KWG KWKH**  
**WABC WACO WADC WALA WBBM**  
**WBIG WBNS WBRG 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**  
**WMBD WMBG WMBR WNAC**  
**WNAX WNOX WOC WOKO WORC**  
**WPG WQAM WREC WSBT WSFA**  
**WSJS WSPD WTOC WWL WVVA**

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

**B — National Barn Dance**  
**KDYL KFI KFSD KFYR KGHL**  
**KGIR KGU KGW KHQ KOA KOMO**  
**KPO KSTP KTAR WDAY WEBG**  
**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 KFBK KFBK**  
**KFH KFPY KFRC KGB KGVO**  
**KMBC KOH KOL KRLD KSL KTRH**  
**K TSA KVI KVOR KWG KWKH**  
**WABC WACO WADC WALA WBNS**  
**WBRG WCAO WCCO WDAE WDBJ**  
**WDBO WDNC WESG WFBL WFEA**  
**WHAS WHK WIBX WJAS WJR**  
**WKRC WLBZ WMBD WMBR**  
**WMMN WOC WOKO WORC WPG**  
**WQAM 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 K TSA KVI KVOR**  
**KWG WABC WACO WADC WALA**  
**WBIG WBNS WBRG 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-Noon, 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 K TSA 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 WVVA**

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

**B — Magic Key of RCA**  
**CFCE 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**  
**WBCB WENR WFAA WFIL WFLA**  
**WGAR WHAM WHIO WIBA WIOD**  
**WIRE WIS WJAX WJDX WJZ WKY**  
**WMAL WMC WMT WOAI 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**  
**KDKA KFYR KOIL KSO KWK**  
**WBAL WBZ WBZA WCKY WEAN**  
**WEBR WENR WFIL WHAM WHK**  
**WICC WJZ WMAL WMT WREN**  
**WSPD WSYR WTCN WXYZ**

**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**  
**WBCB WFBR WGY WHO WIBA**  
**WIRE WJAR WMAQ WNAC WOOD**  
**WOW WRC WSAI WTAG WTMJ**  
**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**  
**WDRG WEAN WFBL WFBM WGR**  
**WHAS WHEC WHK WIBX WICC**  
**WJR WJSV WMAS WOKO WORC**  
**WSPD WVVA**

**R — Mickey Mouse Theater**

**KANS KDYL KFI KGNC KGW**  
**KHQ KOA KOMO KPO KPRC KSD**  
**KSTP KVOO KYW WAVE WBAP**  
**WBEN WBRG WCAE WCSH WDAF**  
**WDEL WEAF WFCB 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 WTMJ**  
**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**  
**KMOX KNOW KNX KOIN KOL**  
**KOMA KRLD KRNT KSFO KSL**

# SUNDAY (Continued)

KTRH K TSA KVI WABC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBO WDRC WEEL  
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 Net-  
works**

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
R — A Tale of Today**  
WBEN WEAFF 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 WEAFF WFBR 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 K TSA  
KTUL KWKH WABC WACO WADC  
WALA WBIG WBNS WBRC WBT  
WCAO WCAU WCOA WDAE WDBJ  
WDBO WDNC WDOD WDRC WEAN  
WFBL WFBM WFEA WGR WGST  
WHAS WHEC WHK WHP WIBX  
WICC WJAS WJR WJSV WKBN  
WKRC WLAC WLBZ WMAS WMBR  
WNAC WNOX WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSMK  
WSPD WTOC WWL WWVA

**B — Ozzie Nelson; Harriet Hillard**  
KARK KDKA KECA KFEL KEX  
KFSD KFYP KGA KGO KJR KLO  
KOIL KPRC KSO KSTP KTAR  
KTBS KTHS KVOO KWK WABY  
WAPI WAVE WBAL WBAP WBZ  
WBZA WCKY WCOL WDAY WEAN  
WIBC WEBR WFIL WFLA WHAM  
WHK WIBA WICC WIOD WIS  
WJAX WJDX WJZ WKY WLEU  
WLS WMAL WMC WMT WOAI  
WPTF WREN WRD WSB WSM  
WSMB WSOC WSUN WSYR WTAR  
WTMJ WVMC WXYZ

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
R — Don Ameche; Edgar Bergen**  
CFCF CRCT KDYL KFI KFYP  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KVOO  
KYW WAVE WBEN WCAE WCSH

WDAF WDAY WEAFF WEBC WFAA  
WFBR 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  
KFBB KFH KFPY KFRC KGB  
KGKO KHJ K LRA KLZ KMBC  
KMJ KMOX KOH KOIN KOI KOMA  
KRLD KRNT KSCJ KSL KTRH  
K TSA KTUL KVI KFOR 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 WGR  
WGST WHAS WHEC WHK WHP  
WIBW WIBX WICC WISN WJAS  
WJR WJSV WKBN WKRC WLAC  
WLBZ WMAS WMBD WMBR WNAC  
WNAX WOC WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSPD  
WTOC WWL WWVA

**B — Tyrone Power; Drama**  
KDKA KECA KFSD KGA KGHL  
KGIR 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 KFYP KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTHS KYW WAVE  
WBEN WCAE WCKY WCSH WDAF  
WDAY WEAFF WEBC WEEL WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOW WPTF WRC WRVA WSB  
WSM WSMB WSOC WTAG WTAM  
WTAR WTIC WTMJ WWJ WWNC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
R — Album of Familiar Music**  
CFCF CRCT KDYL KFI KFYP  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KYW WAPI  
WAVE WBEN WCAE WCSH WDAF  
WDAY WEAFF WEBC WEEL WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMAQ WMC WOAI WOW  
WPTF WRC WRVA 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  
KPO KPRC KSD KSTP KTAR KTBS  
KTHS KYW WAVE WBAP WBEN  
WCAE WCSH WDAF WEAFF WFBR  
WFLA WGY WHO 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 KFBB 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 Winchell**  
KDYL KFI KFSD KGHL KGIR  
KGW KHQ KOA KOMO KPO KPRC  
KTAR KTBS KTHS WAPI WAVE  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSMB

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
R — Jack Benny-Mary Livingstone**  
KDYL KERN KFBB 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-Charlie 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., Red  
Eddie Cantor, 7:30 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 Jolson, 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 Bernle, 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 Heidt, 9:00 p.m. Tues., Blue  
 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 Palge, 9:00 p.m. Fri., 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 Fri., 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. Fri., Red  
 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 11:00 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  
 Believe 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, 8:00 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 Gayle, 6 and 11 p.m. Sun., CBS  
 Freda 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. 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. Fri., 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  
 Smiling 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  
 Marlon 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, 6:30 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  
 Harriet Parsons, 8:30 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

(Continued 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 Ft. Worth
1500	WKBB	E. Dubuque, Ill., to Dubuque, Iowa.

## KGKO Moves

**S**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 kcs 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

As shown in the Index by  
Frequencies and Dial Numbers

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts 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.

- |                              |  |                              |   |                         |   |
|------------------------------|--|------------------------------|---|-------------------------|---|
| <b>Second Column Symbols</b> | n                                      | Weather or time only.        | R                                       | National "Red" network. |   |
| a                            | Verifies reception for return postage. | z                            | No information available.               | S                       | Sunday only.  |
| b                            | Verifies only occasionally.            | <b>Fourth Column Symbols</b> |   |                         |   |
| c                            | Does not verify.                       | B                            | National "Blue" network.                | Sy                      | Synchronized.                                       |
| d                            | Verification 10c; letter 25c.          | C                            | Columbia network.                       | X                       | Has permit to increase power.                       |
| h                            | Sends own station stamp for 10c.       | D                            | Day time only.                          | Y                       | Has permit to change location.                      |
| i                            | Sends own station stamp for 5c.        | Dn                           | Day time with occasional evening hours. | Z                       | Has permit to change frequency.                     |
| j                            | Sends own station stamp for postage.   | F                            | Canadian Brdcastg. Corp.                | a-b-c.                  | Small letters show stations using same transmitter. |
| k                            | Has no stamps.                         | M                            | Mutual Brdcastg. Sys.                   | 1-2-3.                  | Figures denote stations sharing time.               |
| m                            | Verifies for 5c.                       | N                            | National "Red" and "Blue" networks.     | ....                    | No information.                                     |
|                              |  | P                            | Has construction permit only.           |                         |   |

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

540 keys. (555.2)

CJRM	ak	1000	F	Regina, Sask.
ZNS	ak	400	....	Nassau, Bahamas

550 keys. (545.1)

CFNB	ak	500	F (1)	Fredericton, N. B.
KFUO	ak	500	2 (1)	St. Louis, Mo.
KFYR	ak	1000	N (5)	Bismarck, N. Dak.
KOAC	ak	1000	....	Corvallis, Ore.
KSD	ak	1000	2R (5)	St. Louis, Mo.
KTSA	ak	1000	C (5)	San Antonio, Tex.
WDEV	ak	500	D	Waterbury, Vt.
WGR	ak	1000	C (5)	Buffalo, N. Y.
WKRC	ak	1000	C (5)	Cincinnati, Ohio
WSVA	ak	500	D	Harrisonburg, Va.
XEFC	ak	100	....	Merida, Yuc.

560 keys. (535.4)

KFDM	ak	500	(1) N	Beaumont, Texas
KLZ	ak	1000	C (5)	Denver, Colo.
KSFO	ak	1000	C (5)	San Francisco, Cal.
KWTO	ak	5000	D	Springfield, Mo.
WFIL	ak	1000	BM	Philadelphia, Pa.
WIND	ak	1000	(5)	Gary, Ind.
WIS	ak	1000	N (5)	Columbia, S. C.
WQAM	ak	1000	C	Miami, Fla.

570 keys. (526.0)

CMCY	ak	5000	X	Havana, Cuba
KGKO	ak	250	NXY(1)	Wichita Falls, Tex.
KMTR	ak	1000	....	Los Angeles, Calif.
KVI	ak	1000	C (5)	Tacoma, Wash.
WKBN	ak	500	C1	Youngstown, Ohio
WMCA	ak	1000	....	New York, N. Y.
WNAX	ak	1000	C (5)	Yankton, S. Dak.
WOSU	ak	750	1 (1)	Columbus, Ohio
WSYR	ak	1000	B (WSYU)	Syracuse, N. Y.
WWNC	ak	1000	N	Asheville, N. C.

580 keys. (516.9)

CFPR	ak	50	....	Prince Rupert, B. C.
CHRC	ak	100	....	Quebec, P. Q.
CKCL	ak	100	F	Toronto, Ont.
CKUA	ak	500	F	Edmonton, Alta.
KMJ	ak	1000	N	Fresno, Calif.

Heard      Reported      Verified

**Heard**

**Reported**

**Verified**

KSAC	ak	500	2 (1)	Manhattan, Kans.
WCHS	ak	500	C (1)	Charleston, W. Va.
WDBO	ak	1000	C(5)	Orlando, Fla.
WIBW	ak	1000	2C (5)	Topeka, Kans.
WILL	ak	1000	D	Urbana, Ill.
WTAG	ak	1000	R	Worcester, Mass.
XELO	ak	10000	.....	Tijuana, B. Cfa.
XEMU	z	250	.....	Piedras Negras, Coah.

**590 kcys. (508.2)**

KHQ	ak	1000	R (5)	Spokane, Wash.
WEEI	ak	1000	C (5)	Boston, Mass.
WKZO	ak	1000	BDX	Kalamazoo, Mich.
WOW	ak	1000	R (5)	Omaha, Nebr.

**600 kcys. (499.7)**

CFCF	ak	500	BF	Montreal, P. O.
CJOR	ak	500	.....	Vancouver, B. C.
CMQ	ak	25000	.....	Havana, Cuba
FQN	ad	250	609	St. Pierre, Miquelon
KFSD	ak	1000	B	San Diego, Calif.
WCAO	ak	500	C (1)	Baltimore, Md.
WICC	ak	500	BM (1)	Bridgeport, Conn.
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa
WREC	ak	1000	C (5)	Memphis, Tenn.
XEOJ	z	.....	.....	.....

**610 kcys. (491.5)**

KFRC	c	1000	M (5)	San Francisco, Cal.
WGLE	ak	500	DM	Cleveland, Ohio
WDAF	ak	1000	R (5)	Kansas City, Mo.
WIOD	ak	1000	N(WMBF)	Miami, Fla.
WIP	ak	1000	.....	Philadelphia, Pa
XEXM	z	500	2	Mexico City, D. F.
XEYO	z	500	2	Mexico City, D. F.

**620 kcys. (483.6)**

KGW	ak	1000	R (5)	Portland, Ore.
KTAR	ak	1000	N	Phoenix, Ariz.
TIPG	z	2000	625	San Jose, Costa Rica
WFLA	ak	1000	Na (5)	Tampa, Fla.
WHJB	ak	250	CD	Greensburg, Pa.
WLBZ	ak	500	CM (1)	Bangor, Maine
WSUN	ak	1000	Na (5)	St. Petersburg, Fla.
WTMJ	ak	1000	N (5)	Milwaukee, Wis.

**630 kcys. (475.9)**

CFCO	ak	100	F	Chatham, Ont.
CFCY	ak	1000	F	Charlottetown, P.E.I.
CJRC	ak	500	F (1)	Winnipeg, Man.
CKOV	ak	100	F	Kelowna, B. C.
CMCD	ak	250	.....	Havana, Cuba
KFRU	ak	500	I (1)	Columbia, Mo.
KGFX	ak	200	D	Pierre, S. Dak.
WGBF	ak	500	N1 (1)	Evansville, Ind.
WMAL	ak	250	B (.5)	Washington, D. C.
WPRO	ak	500	C (1)	Providence, R. I.
XEZ	z	500	.....	Merida, Yuc.
.....	z	10000	P	Havana, Cuba

**640 kcys. (468.5)**

KFI	ak	50000	R	Los Angeles, Calif.
WGAN	z	500	DP	Portland, Maine
WHKC	ak	500	M	Columbus, Ohio
WOI	ak	5000	D	Ames, Iowa
XEBX	z	250	.....	Sabinas, Coah.
YSS	ak	500	.....	San Salvador, E. S.

**650 kcys. (461.3)**

TIX	z	1000	.....	San Jose, C. R.
WSM	ak	50000	MN	Nashville, Tenn.

**Heard**

**Reported**

**Verified**

660 kcys. (454.3)

WAAW ak 500 D Omaha, Nebr.  
 WEAJ ak 50000 R New York, N. Y.  
 XEAL z 1000 ..... Mexico City, D. F.  
 XEAO ak 250 ..... Mexicali, B. Cfa.

670 kcys. (447.5)

WMAQ ak 50000 R Chicago, Ill.

680 kcys. (440.9)

CMBO z 5000 P Havana, Cuba  
 CMCG ak 1000 ..... Havana, Cuba  
 KFEQ ak 2500 D St. Joseph, Mo.  
 KPO ak 50000 R San Francisco, Cal.  
 VAS akn 2000 685 Glace Bay, N. S.  
 VOWR ck 500 681 St. John's, Nfld.  
 WLAW ak 1000 D Lawrence, Mass.  
 WPTF ak 5000 N Raleigh, 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 (W8XO) 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, Ill.  
 XEH ak 250 ..... Monterrey, N. L.

730 kcys. (410.7)

CFPL ak 100 F London, Ont.  
 CJCA ak 1000 F Edmonton, Alta.  
 CKAC ak 5000 C Montreal, P. Q.  
 CKPR ak 100 F Fort William, Ont.  
 CMCL z 10000 P Havana, Cuba  
 XEPN ak 100000 ..... Piedras Negras, Coah.  
 XERB ak 100000 ..... Rosarito Bch., B. Cfa.

740 kcys. (405.2)

KMMJ ak 1000 D Clay Center, Nebr.  
 KTRB ak 250 D Modesto, Calif.  
 WHEB ak 250 D Portsmouth, N. H.  
 WSB ak 50000 R Atlanta, Ga.

750 kcys. (399.8)

CMBL z 2500 ..... Havana, Cuba  
 KGU aj 2500 N Honolulu, Hawaii  
 WJR ak 50000 C Detroit, Mich.  
 XEAA ak 200 ..... Mexicali, B. Cfa.  
 XEAM z 25 ..... Matamoros, Tams.

760 kcys. (394.5)

CMHX ak 200 ..... Cienfuegos, Cuba

Heard

Reported

Verified

KXA ak 250 (.5)X Seattle, Wash.  
 WBAL ak 2500 BMSy Baltimore, Md.  
 WEW ak 1000 D St. Louis, Mo.  
 WJZ ak 50000 BSy New York, N. Y.  
 XEOK ak 2500 .... Tijuana, B. Cfa.

770 kcys. (389.4)

CMBF z 10000 .... Havana, Cuba  
 KFAB ak 10000 CSy Lincoln, Nebr.  
 WBBM ak 50000 CSy Chicago, Ill.

780 kcys. (384.4)

CHWK dk 100 F Chilliwack, B. C.  
 CKSO ak 1000 F Sudbury, Ont.  
 CMJK ak 250 .... Camaguey, Cuba  
 KEHE ak 1000 (5) Los Angeles, Calif.  
 KFDY ak 1000 D Brookings, S. Dak.  
 KFOD ck 250 .... Anchorage, Alaska  
 KGHL ak 1000 N (5) Billings, Mont.  
 KWLK z 250 DP Longview, Wash.  
 WEAN ak 1000 BM (5) Providence, R. I.  
 WMC ak 1000 R (5) Memphis, Tenn.  
 WTAR ak 1000 N Norfolk, Va.  
 XEN ak 1000 .... Mexico City, D. F.

790 kcys. (379.5)

CMGH ak 500 .... Matanzas, Cuba  
 KGO ak 7500 B San Francisco, Cal.  
 KOAM z 1000 DN Pittsburg, Kans.  
 WGY ak 50000 R Schenectady, N. Y.

800 kcys. (374.8)

HIX ak 800 .... Trujillo, D. R.  
 WBAP ak 50000 Na Fort Worth, Texas  
 WFAA ak 50000 Na Dallas, Texas  
 WTBO ak 250 D Cumberland, Md.

810 kcys. (370.2)

CMCF ak 600 X Havana, Cuba  
 WCCO ak 50000 C Minneapolis, Minn.  
 WNYC ak 1000 D New York, N. Y.  
 XEBZ ad 100 .... Mexico City, D. F.  
 XEDF z 100 .... Nuevo Laredo, Tams.

820 kcys. (365.6)

CMHW ak 100 .... Santa Clara, Cuba  
 WHAS ak 50000 C Louisville, Ky.  
 XEBG z 1000 .... Tijuana, B. Cfa.

830 kcys. (361.2)

CMJX ak 500 .... Camaguey, Cuba  
 KOA ak 50000 R Denver, Colo.  
 WEEU ak 1000 D Reading, Pa.  
 WHDH ak 1000 Dn Boston, Mass.  
 WRUF ak 5000 Dn Gainesville, Fla.

840 kcys. (356.9)

CBL ak 50000 F Toronto, Ont.  
 CFOC ak 1000 F Saskatoon, Sask.  
 VOGY ak 400 .... St. John's, Nfld.  
 XERA ck 250000 .... Villa Acuna, Coah.

850 kcys. (352.7)

CMCM ak .... .... Havana, Cuba  
 KIEV ak 250 D Glendale, Calif.  
 WESG ak 1000 CD Elmira, N. Y.

**Heard**

**Reported**

**Verified**

WKAR ak 1000 D E. Lansing, Mich.  
 WWL ak 10000 CX New Orleans, La.

**860 keys. (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 keys. (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 keys. (340.7)**

CBO ak 1000 F Ottawa, Ont.  
 CFJC ak 1000 F Kamloops, B. C.  
 CMW ak 1400 X Havana, Cuba  
 KFKA ak 700 2M (1) Greeley, Colo.  
 KLX ak 1000 .... Oakland, Calif.  
 KPOF ak 1000 2 Denver, Colo.  
 TIEP ak 1000 .... San Jose, Costa Rica  
 WCOG ak 500 CX (1) Meridian, Miss.  
 WGBI ak 500 CI (1) Scranton, Pa.  
 WOAN ak 500 1 (1) Scranton, Pa.  
 WRNL ak 500 D Richmond, Va.  
 WSUI ak 500 (1) Iowa City, Iowa

**890 keys. (336.9)**

KARK ak 500 N (1) Little Rock, Ark.  
 KFNF ak 500 2 (1)X Shenandoah, Iowa  
 KFPY ak 1000 C (5) Spokane, Wash.  
 KUSD ak 500 2 Vermillion, S. Dak.  
 WBAA ak 500 (1) W. Lafayette, Ind.  
 WGST ak 1000 C (5) Atlanta, Ga.  
 WJAR ak 1000 R (5) Providence, R. I.  
 WMMN ak 500 C (1)X Fairmont, W. Va.  
 XEK ak 100 .... Mexico City, D. F.  
 XEW ak 50000 .... Mexico City, D. F.

**900 keys. (333.1)**

KGBU ak 500 X Ketchikan, Alaska  
 KHJ ak 1000 M (5) Los Angeles, Calif.  
 KSEI ak 250 (1)N Pocatello, Idaho  
 WBEN ak 1000 R (5) Buffalo, N. Y.  
 WELI ak 500 D New Haven, Conn.  
 WFMD ak 500 D Frederick, Md.  
 WJAX ak 1000 N (5) Jacksonville, Fla.  
 WKY ak 1000 N (5) Oklahoma City, Ok.  
 WLBL ak 5000 D Stevens Point, Wis.  
 WTAD ak 1000 D Quincy, Ill.

**910 keys. (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 keys. (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  
 KVOB 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 Philadelphia, Pa.  
 WSPA ak 1000 D Spartanburg, S. C.  
 WWJ ak 5000 R Detroit, Mich.

930 kcys. (322.4)

CFAC ak 1000 F Calgary, Alta.  
 CFCH ak 100 F North Bay, Ont.  
 CFCL ak 100 .... Prescott, Ont.  
 CHNS ak 1000 F Halifax, N. S.  
 CKPC ak 100 F Brantford, Ont.  
 KMA ak 1000 (5) Shenandoah, Iowa  
 KROW ak 1000 .... Oakland, Calif.  
 WBRC ak 1000 R(5) Birmingham, Ala.  
 WDBJ ak 1000 C (5) Roanoke, Va.  
 XEBH ak 500 .... Hermosillo, Son.

940 kcys. (319.0)

KOIN ak 1000 C (5) Portland, Ore.  
 VOAS ak 100 .... St. John's, Nfld.  
 WAAT ak 500 D Jersey City, N. J.  
 WAVE ak 1000 N Louisville, Ky.  
 WCSH ak 1000 R (2.5) Portland, Maine  
 WDAY ak 1000 N (5) Fargo, N. Dak.  
 WHA ak 5000 D Madison, Wis.  
 WICA ak 250 D Ashtabula, Ohio  
 XEFO ak 5000 .... Mexico City, D. F.

950 kcys. (315.6)

CJOC ak 100 F Lethbridge, Alta.  
 CMBC z 10000 .... Havana, Cuba  
 CRCK ak 1000 F Quebec, P. O.  
 KFWB ak 1000 (5) Hollywood, Calif.  
 KMBC ak 1000 C (5) Kansas City, Mo.  
 WHAL z 500 DP Saginaw, Mich.  
 WRC ak 1000 R (5) Washington, D. C.

960 kcys. (312.3)

CFRN ak 100 F Edmonton, Alta.  
 CHNC ak 1000 F New Carlisle, P. O.  
 CMKS z .... Guantanamo, Cuba  
 CRCY ck 100 F Toronto, Ont.  
 XEAW c 100000 .... Reynosa, Tams.

970 kcys. (309.1)

CMBY z 150 .... Havana, Cuba  
 KJR ak 5000 B Seattle, Wash.  
 WCFL ak 5000 N Chicago, Ill.  
 WIBG ak 100 D Glenside, Pa.

980 kcys. (306.0)

KDKA bk 50000 B Pittsburgh, Pa.  
 XEAC ak 1000 .... Tijuana, B. Cfa.  
 XEFE z 250 z Nuevo Laredo, Tams.

990 kcys. (302.8)

CMKL z .... Bayamo, Cuba  
 WBZ ak 50000 BSy Boston, Mass.  
 WBZA ak 1000 BSy Springfield, Mass.  
 XEAF ak 750 .... Nogales, Son.  
 XES ak 250 .... Tampico, Tams.

1000 kcys. (299.8)

CMBZ ak 500 (1) X Havana, Cuba  
 KFVD ak 1000 Dn Los Angeles, Calif.  
 VOCM z 200 1006 St. John's, Nfld.

**Heard**

**Reported**

**Verified**

WHO ak 50000 R Des Moines, Iowa  
 XEBI ak 25 .... Aguascalientes, Ags.

**1010 keys. (296.9)**

CHML ak 100 F Hamilton, Ont.  
 CKGD ak 100 1 Vancouver, B. C.  
 CKCK ak 1000 F Regina, Sask.  
 CKCO ak 100 F Ottawa, Ont.  
 CKIC ak 50 .... Wolfville, N. S.  
 CKWX ak 100 1 Vancouver, B. C.  
 CMJA ak 300 .... Camaguey, Cuba  
 KGGF ak 1000 2M Coffeyville, Kans.  
 KQW ak 1000 M San Jose, Calif.  
 WHN ak 1000 (5) New York, N. Y.  
 WNAD ak 1000 2 Norman, Okla.  
 WNOX ak 1000 C (5) Knoxville, Tenn.  
 XEFQ ak 50 .... Cananea, Son.  
 XEU ak 250 .... Veracruz, Ver.

**1020 keys. (293.9)**

KYW ak 10000 R Philadelphia, Pa.  
 WDZ ak 250 D Tuscola, Ill.  
 XEJ ak 1000 .... Juarez, Chih.

**1030 keys. (291.1)**

CFCN ak 10000 F Calgary, Alta.  
 CJBR z 1000 F Rimouski, P. Q.  
 CKLW ak 5000 M Windsor, Ont.  
 CMCK ak 5000 .... Havana, Cuba  
 XEB ak 10000 .... Mexico City, D. F.

**1040 keys. (288.3)**

KRLD ak 10000 C Dallas, Texas  
 KWJJ ak 500 .... Portland, Ore.  
 KYOS bk 250 D Merced, Calif.  
 WFIC ah 50000 R Hartford, Conn.

**1050 keys. (285.5)**

CBM ak 5000 F Montreal, P. Q.  
 CMKD ak 250 .... Santiago, Cuba  
 HIT z 50 .... Trujillo, D. R.  
 KFBI ak 5000 Dn Abilene, Kans.  
 KNX ak 50000 C Los Angeles, Calif.  
 WEAU z 1000 D Eau Claire, Wis.  
 WGVA z 1000 DP Indianapolis, Ind.

**1060 keys. (282.8)**

KTHS ak 10000 N Hot Springs, Ark.  
 VOAC z 40 1065 St. John's, Nfld.  
 WBAL ak 10000 BM Baltimore, Md.  
 WJAG ak 1000 D Norfolk, Nebr.  
 W3XJ z 100 P College Park, Md.

**1070 keys. (280.2)**

CMBX ak 500 .... Havana, Cuba  
 CMHA z 50 .... Sagua la Grande, Cuba  
 KJBS ak 500 .... San Francisco, Calif.  
 WCAZ ak 100 D Carthage, Ill.  
 WTAM ak 50000 R Cleveland, Ohio

**1080 keys. (277.6)**

CMJO z 200 .... Camaguey, Cuba  
 WBT ak 50000 C Charlotte, N. C.  
 WCBD ak 5000 Dnl Chicago, Ill.  
 WMBI ak 5000 Dnl Chicago, Ill.  
 XEBA z 20 .... Guzman, Jal.  
 XEBK ak 100 .... Nuevo Laredo, Tams.  
 XEDP ak 500 .... Mexico City, D. F.



Heard

Reported

Verified

1090 keys. (275.1)

KMOX ak 5000 C St. Louis, Mo.

1100 keys. (272.6)

CBR ak 5000 F Vancouver, B. C.  
 KGDM ak 1000 DM Stockton, Calif.  
 KWKH ak 10000 C Shreveport, La.  
 WBIL ak 5000 I New York, N. Y.  
 WPG ak 5000 CI Atlantic City, N. J.  
 XEL z 250 .... Mexico City, D. F.

1110 keys. (270.1)

CMCJ ak 500 X Havana, Cuba  
 KSOO ak 2500 DnNX Sioux Falls, S. Dak.  
 WRVA ak 5000 CM Richmond, Va.

1120 keys. (26 7)

CHLP ak 100 F Montreal, P. O.  
 CHSJ ak 500 F (1) St. John, N. B.  
 CKOC ak 500 F (1) Hamilton, Ont.  
 CKX ak 1000 F Brandon, Man.  
 CMGF ak 250 .... Matanzas, Cuba.  
 CMKM ak 200 .... Manzanillo, Cuba  
 CRCS ak 100 F Chicoutimi, P. O.  
 KFIO ak 100 D Spokane, Wash.  
 KFSG ak 500 a (2.5) Los Angeles, Calif.  
 KRKD ak 500 a (2.5) Los Angeles, Calif.  
 KRSC ak 250 .... Seattle, Wash.  
 KTBC z 1000 DP Austin, Texas  
 WCOP ak 500 D Boston, Mass.  
 WDEL ak 250 R (.5) Wilmington, Del.  
 WISN ak 250 C (1) Milwaukee, Wis.  
 WJBO ak 500 B Baton Rouge, La.  
 WTAW ak 500 .... College Sta., Tex.

1130 keys. (265.3)

CMJI ak 150 .... Ciego de Avila, Cuba  
 KSL ak 50000 G Salt Lake City, Ut.  
 WJJD ak 20000 Dn Chicago, Ill.  
 WOV ak 1000 D New York, N. Y.  
 XEJP z 100 .... Mexico City, D. F.

1140 keys. (263.0)

CMCW dk 500 .... Havana, Cuba  
 KVOO ak 25000 NI Tulsa, Okla.  
 WAPI ak 5000 CI Birmingham, Ala.  
 WSPR ak 500 DM Springfield, Mass.

1150 keys. (260.7)

CMJF z 200 .... Camaguey, Cuba  
 WHAM ak 50000 B Rochester, N. Y.  
 XEBP z 250 .... Durango, Dgo.  
 XEC ak 100 .... Tijuana, B. Cfa.  
 XEDW z 20 .... Minatitlan, Ver.

1160 keys. (258.5)

CMHJ ak 175 .... Cienfuegos, Cuba  
 CMKG z .... Santiago, Cuba  
 WOWO ak 10000 B1 Fort Wayne, Ind.  
 WWVA ak 5000 CI Wheeling, W. Va.  
 XEAS ak 50 .... Saltillo, Coah.  
 XED ak 2500 .... Guadalajara, Jal.  
 XEFM z 20 .... Leon, Gto.  
 XEP ak 500 .... Juarez, Chih.

Heard

Reported

Verified

1170 keys. (256.3)

CMBS	ak	150	X	Havana, Cuba
WCAU	ak	50000	C	Philadelphia, Pa.
XEXX	z	1000	.....	Mexico City, D. F.

1180 keys. (254.1)

CMJO	ak	50	.....	Ciego de Avila, Cuba
KEX	ak	5000	B2	Portland, Ore.
KOB	ak	10000	N2	Albuquerque, N. M.
WDGY	ak	1000	CDn(5)	Minneapolis, Minn.
WINS	ak	1000	.....	New York, N. Y.
WMAZ	ak	1000	C(5)	Macon, Ga.
XEFA	z	500	.....	Tacuba, D. F.

1190 keys. (252.0)

CMKX	z	.....	.....	Santiago, Cuba
KTKC	ak	250	D	Visalia, Calif.
VONF	ak	500	1195	St. John's, Nfld.
WATR	ak	100	DXZ	Waterbury, Conn.
WOAI	ak	50000	N	San Antonio, Tex.
WSAZ	ak	1000	.....	Huntington, W. Va.

1200 keys. (249.9)

CFGP	z	100	.....	Grande Prairie, Alta.
CHAB	ak	100	F	Moose Jaw, Sask.
CKNX	dk	100	.....	Wingham, Ont.
CKTB	ak	100	F	St. Catharines, Ont.
CMCO	ad	250	.....	Havana, Cuba
KADA	ak	100	DM	Ada, Okla.
KBTM	ak	100	D	Jonesboro, Ark.
KDNC	z	100	(.25) P	Lewistown, Mont.
KELO	z	100	N	Sioux Falls, S. Dak.
KFJB	ak	100	(.25)	Marshalltown, Ia.
KFXD	ak	100	(.25)	Nampa, Idaho
KFXJ	ak	100	(.25)	Grand Junc., Colo.
KGCI	z	100	DP	Coeur d'Alene, Idaho
KGDE	c	100	(.25)	Fergus Falls, Minn.
KGEK	ak	100	.....	Sterling, Colo.
KGfJ	ak	100	.....	Los Angeles, Calif.
KGHI	ak	100	(.25)	Little Rock, Ark.
KGVL	z	100	DP	Greenville, Texas
KMLB	ak	100	(.25)	Monroe, La.
KOOS	ak	100	(.25)	Marsh field, Ore.
KSUN	ak	100	(.25)	Lowell, Ariz.
KVCV	ak	100	.....	Redding, Calif.
KVEC	ak	250	D	San Luis Obispo, Calif.
KVOS	dk	100	M	Bellingham, Wash.
KWG	ak	100	N	Stockton, Calif.
KWNO	z	250	D	Winona, Minn.
WABI	ak	100	(.25)	Bangor, Maine
WAIM	ak	100	C	Anderson, S. C.
WAYX	ak	100	(.25)	Waycross, Ga.
WBBZ	ak	100	M (.25)	Ponca City, Okla.
WBHP	ak	100	.....	Huntsville, Ala.
WBNO	ak	100	2	New Orleans, La.
WCAT	ak	100	D	Rapid City, S. Dak.
WCAX	ak	100	(.25)	Burlington, Vt.
WCLO	ak	100	(.25)	Janesville, Wis.
WCPO	ak	100	(.25)	Cincinnati, Ohio
WDSM	z	100	P	Superior, Wis.
WEST	ak	100	3 (.25)	Easton, Pa.
WFAM	ak	100	4	South Bend, Ind.
WFTC	ak	100	(.25)	Kinston, N. C.
WHBC	ak	100	(.25)	Canton, Ohio
WHBY	ak	100	(.25)	Green Bay, Wis.
WIBX	ak	100	C (.25)	Utica, N. Y.
WIL	ak	100	(.25)	St. Louis, Mo.
WJBC	ak	100	5 (.25)	Bloomington, Ill.
WJBL	ak	100	5	Decatur, Ill.
WJBW	ak	100	2	New Orleans, La.
WJNO	ak	100	C (.25)	W. Palm Beach, Fla.
WJRD	ak	250	D	Tuscaloosa, Ala.
WKBO	ak	100	3 (.25)	Harrisburg, Pa.
WLVA	ak	100	(.25)	Lynchburg, Va.

Heard

Reported

Verified

WMFR	ak	100	D	High Point, N. C.
WMPC	ak	100	(.25)	Lapeer, Mich.
WOLS	z	100	D	Florence, S. C.
WRBL	ak	100	(.25)	Columbus, Ga.
WSAL	z	250	D	Salisbury, Md.
WTHT	ak	100	M	Hartford, Conn.
WTOL	ak	100	D	Toledo, Ohio
WWAE	ak	100	8	Hammond, Ind.
XEBU	z	50	....	Chihuahua, Chih.

1210 keys. (247.8)

CHLT	z	100	....	Sherbrooke, P. Q.
CJCS	ak	50	....	Stratford, Ont.
CJCU	z	50	....	Aklavik, N.W.T.
CKBI	ak	100	F	Prince Albert, Sask.
CKCH	ak	100	F	Hull, P. Q.
CKMC	ak	50	....	Cobalt, Ont.
CMHI	ak	150	....	Santa Clara, Cuba
KALB	ak	100	(.25)	Alexandria, La.
KANS	ak	100	N	Wichita, Kans.
KASA	c	100	....	Elk City, Okla.
KDLR	ak	100	....	Devils Lake, N. D.
KDON	z	100	M	Monterey, Calif.
KFJI	ak	100	....	Klamath Falls, Ore.
KFOR	ak	100	CM(.25)	Lincoln, Nebr.
KFPW	ak	100	....	Fort Smith, Ark.
KFVS	ak	100	5 (.25)	Cape Girardeau, Mo.
KFXM	ak	100	M2	San Bernardino, Cal.
KGLO	z	100	C (.25)	Mason City, Iowa
KG Y	ak	100	M	Olympia, Wash.
KHBG	z	100	D	Okmulgee, Okla.
KIUL	ak	100	....	Garden City, Kans.
KLAH	ak	100	....	Carlsbad, N. Mex.
KOCA	ak	100	(.25)	Kilgore, Texas
KPFA	ak	100	N(.25)	Helena, Mont.
KPPC	ak	100	2	Pasadena, Calif.
KROY	ak	100	CD	Sacramento, Calif.
KVSO	ak	100	M (.25)	Ardmore, Okla.
KWJB	z	100	(.25)P	Globe, Ariz.
KWTN	ak	100	....	Watertown, S. Dak.
WALR	ak	100	....	Zanesville, Ohio
WBAX	ak	100	M	Wilkes-Barre, Pa.
WBBL	ak	100	S	Richmond, Va.
WBL Y	ak	100	D	Lima, Ohio
WBRB	ak	100	3	Red Bank, N. J.
WCOL	ak	100	N	Columbus, Ohio
WCRW	ak	100	4	Chicago, Ill.
WEBQ	ak	100	5 (.25)	Harrisburg, Ill.
WEDC	ak	100	4	Chicago, Ill.
WFAS	ak	100	3	White Plains, N. Y.
WFOY	ak	100	(.25)	St. Augustine, Fla.
WGBB	ak	100	3	Freeport, N. Y.
WGCM	ak	100	(.25)	Gulfport, Miss.
WGNY	ak	100	3	Newburgh, N. Y.
WGRM	ak	100	....	Grenada, Miss.
WHAI	z	250	DP	Greenfield, Mass.
WHBF	ak	100	(.25)	Rock Island, Ill.
WHBU	ak	100	(.25)	Anderson, Ind.
WIBU	ak	100	(.25)	Poynette, Wis.
WJBY	ak	100	(.25)	Gadsden, Ala.
WJEJ	ak	50	Dn(.1)	Hagerstown, Md.
WJIM	z	100	(.25)	Lansing, Mich.
WJTN	ak	100	B (.25)	Jamestown, N. Y.
WJW	ak	100	(.25)	Akron, Ohio
WKOK	ak	100	....	Sunbury, Pa.
WLMU	z	100	P (.25)	Middlesboro, Ky.
WMFG	ak	100	(.25)	Hibbing, Minn.
WOMT	ak	100	....	Manitowoc, Wis.
WPAX	ak	100	D	Thomasville, Ga.
WSAY	z	100	D	Rochester, N. Y.
WSBC	ak	100	4 (.25)	Chicago, Ill.
WSIX	ak	100	(.25)	Nashville, Tenn.
WSNJ	z	100	D	Bridgeton, N. J.
WSOC	ak	100	N (.25)	Charlotte, N. C.
WTAX	ak	100	....	Springfield, Ill.
XEAT	ak	250	....	Parral, Chih.
XEE	ak	50	....	Durango, Dgo.
XEFV	ak	100	....	Juarez, Chih.
XETH	ak	100	....	Puebla, Pue.
.....	z	100	DP	Rice Lake, Wis.

1220 keys. (245.8)

CMJE	z	50	....	Camaguey, Cuba
KFKU	ak	1000	a (5)	Lawrence, Kans.
KTMS	z	500	B	Santa Barbara, Cal.
KTW	ak	1000	S2	Seattle, Wash.
KWSC	ak	1000	2 (5)	Pullman, Wash.
WCAD	ak	500	D	Canton, N. Y.
WCAE	ak	1000	MR (5)	Pittsburgh, Pa.
WDAE	ak	1000	C (5)	Tampa, Fla.
WREN	ak	1000	Ba(5)	Lawrence, Kans.
XEBL	z	50	....	Mazatlan, Sin.
XEDA	z	200	....	Gral. Anaya, D. F.
XETF	ak	12	....	Veracruz. Ver.

1230 keys. (243.8)

CMCB	z	150	....	Havana, Cuba
KGBX	ak	500	N ..	Springfield, Mo.
KGGM	ak	1000	....	Albuquerque, N. M.
KYA	ak	1000	(5)	San Francisco, Cal.
WFBM	ak	1000	C (5)	Indianapolis, Ind.
WNAC	ak	1000	R (5)	Boston, Mass.
XEAZ	z	200	....	Zacatecas, Zac.
XEG	z	250	....	Monterrey, N. L.

1240 keys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.
CMHB	z	50	....	Sancti Spiritus, Cuba
KGCU	ak	250	1	Mandan, N. Dak.
KLPM	ak	250	1XZ	Minot, N. Dak.
KTAT	ak	1000	M	Fbrt Worth, Texas
KTFI	ak	1000	....	Twin Falls, Idaho
WKAQ	ak	1000	....	San Juan, P. R
WXYZ	ak	1000	B	Detroit, Mich.
XEKL	z	500	....	Leon, Guan.
XELA	z	50	....	Saltillo, Coah.
XEME	z	50	....	Merida, Yuc.

1250 keys. (239.9)

CMKC	ak	150	....	Santiago, Cuba
HRN	c	50	....	Tegucigalpa, Hond.
KFOX	ak	1000	....	Long Beach, Calif.
KIT	ak	250	X (.5)	Yakima, Wash.
KXOK	z	1000	P	St. Louis, Mo.
WAIR	ak	250	D	Winst.-Salem, N. C.
WCAL	ah	1000	2 XZ	Northfield, Minn.
WDSU	ak	1000	B	New Orleans, La.
WHBI	ak	1000	(2.5)	Newark, N. J.
WKST	z	250	DP	New Castle, Pa.
WLB	ak	1000	2XZ	Minneapolis, Minn.
WNEW	ak	1000	(2.5)	New York, N. Y.
WTCN	ak	1000	B (5)	Minneapolis, Minn.
XEAI	z	500	....	Mexico City, D. F.
XEXH	z	250	....	San Luis Pot., S.L.P.

1260 keys. (238.0)

CMBD	ak	500	2X	Havana, Cuba
CMC	z	150	2	Havana, Cuba
KGVO	ak	1000	C	Missoula, Mont.
KHSL	ak	250	....	Chico, Calif.
KOIL	ak	1000	BM(5)	Omaha, Nebr.
KPAC	ak	500	D	Port Arthur, Texas
KRGV	ak	1000	N	Weslaco, Texas
KUOA	ak	5000	D	Siloam Spgs., Ark.
KVOA	ak	1000	....	Tucson, Ariz.
WHIO	ak	1000	C (5)	Dayton, Ohio
WNBX	ak	500	CM(1)	Springfield, Vt.
WTOC	ak	1000	C	Savannah, Ga.

1270 keys. (236.1)

CMHD	dk	250	....	Calbarien, Cuba
KGCA	ak	100	2D	Decorah, Iowa
KOL	ak	1000	M (5)	Seattle, Wash.
KVOR	ak	1000	C	Colo. Springs, Colo.
KWLC	ak	100	2D	Decorah, Iowa

Heard

Reported

Verified

WASH	ak	500	DaN	Grd. Rpds., Mich.
WFBR	ak	500	R (1)	Baltimore, Md.
WJDX	ak	1000	R (5)	Jackson, Miss.
WOOD	ak	500	Na	Gd. Rapids, Mich.
XEXB	ak	250	....	Jalapa, Ver.
XEXE	z	17	....	Texcoco, D. F.

1280 kcys. (234.2)

CMKO	z	....	....	Holguin, Cuba
KFBB	ak	1000	C (5)	Great Falls, Mont.
KLS	ak	250	....	Oakland, Calif.
WCAM	ak	500	1	Camden, N. J.
WCAP	ak	500	1	Asbury Park, N. J.
WDOD	ak	1000	C (5)	Chattanooga, Tenn.
WIBA	ak	1000	N (5)	Madison, Wis.
WORC	ak	500	C	Worcester, Mass.
WRR	ak	500	M	Dallas, Texas
WTNJ	ak	500	1	Trenton, N. J.
XEMX	z	100	....	Mexico City, D. F.

1290 kcys. (232.4)

CMCU	ak	500	....	Havana, Cuba
KDYL	ak	1000	RX	Salt Lake City, Ut.
KLCN	ak	100	D	Blytheville, Ark.
KTRH	ak	1000	C (5)	Houston, Texas
WEBC	ak	1000	N (5)	Duluth, Minn.
WJAS	ak	1000	C (5)	Pittsburgh, Pa.
WNBZ	ak	100	D	Saranac Lake, N. Y.
WNEL	ak	1000	(2.5)	San Juan, P. R.

1300 kcys. (230.6)

HI7P	ak	25	....	Trujillo, D. R.
KALE	ak	1000	M	Portland, Ore.
KFAC	ak	1000	....	Los Angeles, Calif.
KFII	ak	1000	C (5)	Wichita, Kans.
TG1	ak	....	1305	Guatemala City, Guat.
WBRR	ak	1000	1	Brooklyn, N. Y.
WEVD	ak	1000	1	New York, N. Y.
WFAB	ak	1000	1	New York, N. Y.
WFBC	ak	1000	N (5)	Greenville, S. C.
WHIAZ	ak	1000	1	Troy, N. Y.
WHBL	ak	250	....	Sheboygan, Wis.

1310 kcys. (228.9)

CHCK	ak	50	....	Charlottetown, P.E.I.
CJKL	ak	100	F	North Bay, Ont.
CJLS	ak	100	F	Yarmouth, N. S.
CKGV	ak	100	F	Quebec, P. Q.
KAND	z	100	D	Corsicana, Tex.
KARM	ak	100	C	Fresno, Calif.
KCKN	ak	100	....	Kansas City, Kans.
KCRJ	ak	100	(.25)	Jerome, Ariz.
KFPL	dk	100	(.25)	Dublin, Texas
KFXR	ak	100	(.25)	Okla. City, Okla.
KFYO	ak	100	(.25)	Lubbock, Texas
KGEZ	ak	100	....	Kalspell, Mont.
KGFV	ak	100	....	Kearney, Nebr.
KIHUB	ak	250	D	Watsonville, Calif.
KINY	ak	100	XZ	Juneau, Alaska
KPDN	ak	100	D	Pampa, Texas
KRBA	z	100	DP	Lufkin, Texas
KRMD	ak	100	(.25)	Shreveport, La.
KROC	ak	100	(.25)	Rochester, Minn.
KROA	ak	100	....	Santa Fe, N. Mex.
KRRV	z	250	D	Sherman, Texas
KSRO	ak	250	D	Santa Rosa, Calif.
KSUB	ak	100	....	Cedar City, Utah
KTSM	ak	100	N(.25)	El Paso, Texas
KVOL	ak	100	....	Lafayette, La.
KVOX	z	100	(.25)	Moorhead, Minn.
KWOC	z	100	DP	Poplar Bluff, Mo.
KWOS	z	100	D	Jefferson City, Mo.
KXRO	ak	100	M(.25)	Aberdeen, Wash.
WAML	ak	100	(.25)	Laurel, Miss.
WBEO	ak	100	D	Marquette, Mich.

**Heard**

**Reported**

**Verified**

WBOW	ak	100	N (.25)	Terre Haute, Ind.
WBRE	ak	100	N	Wilkes-Barre, Pa.
WBRK	z	100	C (.25)	Pittsfield, Mass.
WCLS	ak	100		Joliet, Ill.
WCMI	ak	100	(.25)	Ashland, Ky.
WDAH	ak	100	S (.25)	El Paso, Texas
WEBR	ak	100	B (.25)	Buffalo, N. Y.
WEMP	ak	100	D	Milwaukee, Wis.
WEXL	ak	50	....	Royal Oak, Mich.
WFBG	ak	100	3	Altoona, Pa.
WDFD	ak	100	....	Flint, Mich.
WGAU	z	100	(.25)	Athens, Ga.
WGH	ak	100	(.25)	Newport News, Va.
WGTM	z	100	D	Wilson, N. C.
WHAT	ak	100	4	Philadelphia, Pa.
WJAC	ak	100	3 (.25)	Johnstown, Pa.
WLAK	z	100	....	Lakeland, Fla.
WLBC	ak	100	(.25)	Muncie, Ind.
WLNH	ak	100	M	Laconia, N. H.
WMBO	ak	100	....	Auburn, N. Y.
WMFF	ak	100	(.25)	Plattsburg, N. Y.
WNBH	ak	100	M (.25)	New Bedford, Mass.
WOL	ak	1000	MZ	Washington, D. C.
WRAW	ak	100	....	Reading, Pa.
WROL	ak	100	N (.25)	Knoxville, Tenn.
WSAJ	ak	100	....	Grove City, Pa.
WSGN	ak	100	B (.25)	Birmingham, Ala.
WSJS	ak	100	C	Winston-Salem, N. C.
WTAL	ak	100	(.25)	Tallahassee, Fla.
WTEL	ak	100	4	Philadelphia, Pa.
WTJS	ak	100	(.25)	Jackson, Tenn.
WTRC	ak	100	(.25)	Elkhart, Ind.
XEAG	z	10	....	Cordoba, Ver.
XEBO	z	25	....	Irapuato, Guan.
XEFW	ak	300	....	Tampico, Tams.
XETB	ak	125	....	Torreón, Coah.
XEX	ak	125	....	Monterrey, N. L.
XEXS	z	100	....	Mexico City, D. F.

**1320 keys. (227.1)**

CMOX	ak	200	....	Havana, Cuba
KGHF	ak	500	B	Pueblo, Colo.
KGMB	ak	1000	C M	Honolulu, Hawaii
KID	ak	500	(1)	Idaho Falls, Idaho
KRNT	ak	1000	C (5)	Des Moines, Iowa
WADC	ak	1000	C(5)	Akron, Ohio
WORK	ak	1000	N	York, Pa.
WSMB	ak	1000	R (5)	New Orleans, La.
XEAU	z	....	....	Tijuana, B. Cfa.

**1330 keys. (225.4)**

CMHK	z	250	....	Cruces, Cuba
KGB	ak	1000	M	San Diego, Calif.
KMO	ak	1000	M	Tacoma, Wash.
KRIS	z	500	N	Corpus Christi, Tex.
KSCJ	ak	1000	C (5)	Sioux City, Iowa
WDRC	ak	1000	C (5)	Hartford, Conn.
WSAI	ak	1000	MN(5)	Cincinnati, Ohio
WTAQ	ak	1000	C	Green Bay, Wis.

**1340 keys. (223.7)**

CMAB	z	300	....	Pinar del Rio, Cuba
CMJW	z	300	....	Camaguey, Cuba
KDTH	z	500	DP	Dubuque, Iowa
KGDY	ak	250	D	Huron, S. Dak.
KGIR	ak	1000	N (.25)	Butte, Mont.
KGNO	ak	250	....	Dodge City, Kans.
WCOA	ak	500	C(1)	Pensacola, Fla.
WFEA	ak	500	MN(1)	Manchester, N. H.
WSPD	ak	1000	B (5)	Toledo, Ohio
XEAP	z	50	....	Obregon, Son.
XEBS	z	200	....	Mexico City, D. F.
XEDH	z	200	....	Villa Acuna, Coah.
XEXD	z	350	....	Jalapa, Ver.

**1350 keys. (222.1)**

CMCA	ak	450	X	Havana, Cuba
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Heard

Reported

Verified

CMKW	z	.....	.....	Santiago, Cuba
KIDO	ak	1000	N (2.5)	Boise, Idaho
KWK	ak	1000	BM(5)	St. Louis, Mo.
WAWZ	ak	500	1 (1)X	Zarephath, N. J.
WBNX	ak	1000	1	New York, N. Y.
WMBC	ak	500	R	Richmond, Va.

1360 kcys. (220.4)

CMJH	dk	50	.....	Ciego de Avila, Cuba
KCRC	ak	250	M	Enid, Okla.
KGER	ak	1000	.....	Long Beach, Calif.
WCSC	ak	500	N (1)	Charleston, S. C.
WFBL	ak	1000	C (5)	Syracuse, N. Y.
WGES	ak	500	1 (1)	Chicago, Ill.
WQBC	ak	1000	D	Vicksburg, Miss.
WSBT	ak	500	1	South Bend, Ind.

1370 kcys. (218.8)

CFAR	z	100	.....	Flin Flon, Man.
CKCW	ak	100	F	Moncton, N. B.
CMGE	ak	150	.....	Cardenas, Cuba
KAST	ak	100	D	Astoria, Ore.
KCMO	ak	100	.....	Kansas City, Mo.
KEEN	ak	100	3	Seattle, Wash.
KELD	z	100	.....	El Dorado, Ark.
KERN	ak	100	N	Bakersfield, Calif.
KFGQ	ak	100	D	Boone, Iowa
KFJZ	ak	100	(.25)	Fort Worth, Texas
KFRO	ak	250	D	Longview, Texas
KGAR	ak	100	C (.25)	Tucson, Arizona
KGFL	ak	100	4	Roswell, N. Mex.
KGKL	ak	100	(.25)	San Angelo, Texas
KICA	ak	100	4	Clovis, N. Mex.
KIUP	ak	100	.....	Durango, Colo.
KLUF	ak	100	.....	Galveston, Texas
KMAC	ak	100	5 (.25)	San Antonio, Tex.
KOBH	ak	100	(.25)	Rapid City, S. Dak.
KOKO	ak	100	.....	La Junta, Colo.
KONO	ak	100	5	San Antonio, Tex.
KRE	ak	100	(.25)	Berkeley, Calif.
KRKO	ak	50	3	Everett, Wash.
KRMC	z	100	(.25)	Jamestown, N. D.
KSLM	ak	100	M	Salem, Ore.
KTEM	ak	250	D	Temple, Texas
KTOK	bk	100	MN	Oklahoma City, Ok.
KUJ	ak	100	.....	Walla Walla, Wash.
KVGB	z	100	.....	Great Bend, Kans.
KVRS	z	100	(.25)P	Rock Springs, Wyo.
KWYO	ak	100	(.25)	Sheridan, Wyo.
WABY	ak	100	B(.25)	Albany, N. Y.
WAGF	ak	250	D	Dothan, Ala.
WATL	ak	100	(.25)	Atlanta, Ga.
WBLK	ak	100	.....	Clarksburg, W. Va.
WBNY	ak	100	2 (.25)	Buffalo, N. Y.
WBTM	ak	100	(.25)	Danville, Va.
WCBM	ak	100	(.25)	Baltimore, Md.
WDAS	ak	100	(.25)	Philadelphia, Pa.
WDWS	ak	100	D	Champaign, Ill.
WEOA	ak	100	C(.25)	Evansville, Ind.
WFOR	ak	100	.....	Hattiesburg, Miss.
WGL	ak	100	N(.25)	Fort Wayne, Ind.
WGRC	ak	250	D	New Albany, Ind.
WHBQ	ak	100	.....	Memphis, Tenn.
WHDF	ak	100	(.25)	Calumet, Mich.
WHLB	ak	100	C(.25)	Virginia, Minn.
WHLS	z	250	DP	Port Huron, Mich.
WIBM	ak	100	(.25)	Jackson, Mich.
WLLH	ak	100	Sy	Lawrence, Mass.
WLLH	ak	100	MSy(.25)	Lowell, Mass.
WMBR	ak	100	C (.25)	Jacksonville, Fla.
WMFD	ak	100	D	Wilmington, N. C.
WMFO	ak	100	D	Decatur, Ala.
WMIN	ak	100	(.25)	St. Paul, Minn.
WOC	ak	100	C (.25)	Davenport, Iowa
WPAY	ak	100	.....	Portsmouth, Ohio
WPRA	z	100	(.25)	Mayaguez, P. R.
WRAK	ak	100	(.25)	Williamsport, Pa.
WRDO	ak	100	M	Augusta, Maine
WRJN	ak	100	(.25)	Racine, Wis.

**Heard**

**Reported**

**Verified**

WSAU ak 100  
 WSVS ak 50 2D  
 XECZ z 100  
 XEI ak 125  
 XELZ z 100  
 ..... 2 100

Wausau, Wis.  
 Buffalo, N. Y.  
 San L. Pot., S.L.P.  
 Morelia, Mich.  
 Mexico City, D. F.  
 Owen Sound, Ont.

**1380 keys. (217.3)**

CMCR z .....  
 CMCX z 150  
 KOH ak 500 C  
 KOV ak 500 C1  
 WALA ak 500 C (1)  
 WKBH ak 1000 C  
 WNBC ak 250 D  
 WSMK ak 200 C1

Havana, Cuba  
 Havana, Cuba  
 Reno, Nevada  
 Pittsburgh, Pa.  
 Mobile, Ala.  
 La Crosse, Wis.  
 New Britain, Conn.  
 Dayton, Ohio

**1390 keys. (215.7)**

CJGX ak 100 F  
 CMJC z 150  
 KLRA ak 1000 C (5)  
 KOY ak 1000 C  
 KRLC ak 250  
 WHK ak 1000 BM(2.5)  
 WQDM dk 1000 D

Yorkton, Sask.  
 Camaguey, Cuba  
 Little Rock, Ark.  
 Phoenix, Ariz.  
 Lewiston, Idaho  
 Cleveland, Ohio  
 St. Albans, Vt.

**1400 keys. (214.2)**

CMGC ad 150  
 CMKR z 100  
 KHBC ak 250 CM  
 KLO ak 500 B  
 KTUL ak 500 C (1)  
 WARD ak 500 2  
 WBBC ak 500 2 (1)  
 WHDL ak 250 D  
 WIRE ak 1000 MR (5)  
 WLTH ak 500 2  
 WVFW ak 500 2

Matanzas, Cuba  
 Santiago, Cuba  
 Hilo, T. H.  
 Ogden, Utah  
 Tulsa, Okla.  
 Brooklyn, N. Y.  
 Brooklyn, N. Y.  
 Olean, N. Y.  
 Indianapolis, Ind.  
 Brooklyn, N. Y.  
 Brooklyn, N. Y.

**1410 keys. (212.6)**

CKFC ak 50 5  
 CKMO ak 100 5  
 CMCO ak 5000  
 KFJM ak 500 (1)  
 KGNC ak 1000 (2.5) N  
 KMED ck 250 N  
 WAAB ak 500 M (1)  
 WBCM ak 500 (1)  
 WHIS ak 500 (1)  
 WROK ak 500 (1)  
 WSFA ak 500 C (1)

Vancouver, B. C.  
 Vancouver, B. C.  
 Havana, Cuba  
 Grand Forks, N. D.  
 Amarillo, Texas  
 Medford, Ore.  
 Boston, Mass.  
 Bay City, Mich.  
 Bluefield, W. Va.  
 Rockford, Ill.  
 Montgomery, Ala.

**1420 keys. (211.1)**

CHLN z 100  
 CKGB ak 100 F  
 KABC ak 100 (.25)  
 KABR ak 100 XZ  
 KATE ak 250 D  
 KBPS ak 100 4  
 KCMC ak 100 (.25)  
 KDNT z 100 DP  
 KEUB ak 100  
 KFAM z 100 P  
 KFIZ ak 100  
 KGFF ak 100 (.25) M  
 KGGC ak 100  
 KGIW ak 100 1  
 KGLU z 100 P(.25)  
 KIDW ak 100 1  
 KIUN z 100  
 KLBW z 100 (.25) P  
 KNET ak 100 D  
 KORE ak 100 M  
 KRBC ak 100 (.25)  
 KRIC z 100 P  
 KRLH ak 100 D  
 KTRI z 100 (.25) P

Three Rivers, P. O.  
 North Bay, Ont.  
 San Antonio, Texas  
 Aberdeen, S. D.  
 Albert Lea, Minn.  
 Portland, Ore.  
 Texarkana, Tex.  
 Denton, Tex.  
 Price, Utah  
 St. Cloud, Minn.  
 Fond du Lac, Wis.  
 Shawnee, Okla.  
 San Francisco, Cal.  
 Alamosa, Colo.  
 Safford, Ariz.  
 Lamar, Colo.  
 Pecos, Texas  
 La Grande, Ore.  
 Palestine, Texas  
 Eugene, Ore.  
 Abilene, Texas  
 Beaumont, Tex.  
 Midland, Texas  
 Sioux City, Iowa



KUMA	ak	100	....	Yuma, Ariz.
KWBG	ak	100	....	Hutchinson, Kans.
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, Ill.
WCHV	ak	100	3 (.25)	Charlottesville, Va.
WEED	ak	100	3 (.25)	Rocky Mount, N. C.
WELL	ak	100	....	Battle Creek, Mich.
WGPC	ak	100	....	Albany, Ga.
WHFC	ak	100	(.25)	Cicero, Ill.
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.
WPAR	ak	100	C	Parkersburg, W. V.
WPRP	z	100	(.25)	Ponce, Puerto Rico
.....	z	100	P(.25)	Bozeman, Mont.
.....	z	100	....	Kenora, Ont.

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, Ohio
WHEC	ak	500	C (1)	Rochester, N. Y.
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, Ill.
WSAN	aj	500	Na	Allentown, Pa.
XEFI	ak	250	....	Chihuahua, Chih.

1450 kcys. (206.8)

CFCT	ak	500	....	Victoria, B. C.
CHGS	ak	50	F	Summerside, P.E.I.
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.
WSAR	ak	1000	M	Fall River, Mass.
XEF	ak	100	....	Juarez, Chih.

1460 kcys. (205.4)

CMKF	z	250	....	Holguin, 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.
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**Heard**

**Reported**

**Verified**

WHIP z 5000 D Hammond, Ind.  
WKBW ak 5000 C Buffalo, N. Y.

1490 kcys. (201.2)

KFBK ak 10000 N Sacramento, Calif.  
WCKY ak 10000 N Covington, Ky.

1500 kcys. (199.9)

CJIC ak 100 F S. S. Marie, Ont.  
KAWM z 100 Gallup, N. Mex.  
KBIX ak 100 M Muskogee, Okla.  
KBST z 100 Big Spring, Texas  
KDAL ak 100 C Duluth, Minn.  
KDB ak 100 M(.25) Santa Barbara, Cal.  
KGF1 ak 100 (.25) Brownsville, Tex.  
KGKB ak 100 (.25) Tyler, Texas  
KGKY ak 100 (.25) Scottsbluff, Neb.  
KNEL ak 250 D Brady, Texas  
KNOW ak 100 C Austin, Texas  
KOTN ak 100 D Pine Bluff, Ark.  
KOV C ak 100 (.25) Valley City, N. D.  
KPAB z 100 (.25) P Laredo, Texas  
KPLC ak 100 (.25) Lake Charles, La.  
KPLT z 250 D Paris, Texas  
KPO ak 100 M(.25) Wenatchee, Wash.  
KRNR ak 100 M(.25) Roseburg, Ore.  
KR0D ak 100 P El Paso, Texas  
KSAL ak 100 (.25) Salina, Kans.  
KUTA z 100 P Salt Lake City, Ut.  
KVNU z 100 P Logan, Utah  
KVOE ak 100 M Santa Ana, Calif.  
KWEW z 100 DP Hobbs, N. Mex.  
KXO ak 100 El Centro, Calif.  
KYSM z 100 (.25) P Mankato, Minn.  
WCNW ak 100 I (.25) Brooklyn, N. Y.  
WDNC ak 100 C Durham, N. C.  
WGAL ak 100 (.25) Lancaster, Pa.  
WGIL z 250 DP Galesburg, Ill.  
WHBB ak 100 Selma, Ala.  
WHBF ak 100 (.25) Kosciusko, Miss.  
WJBK ak 100 (.25) Detroit, Mich.  
WKAT z 100 Miami Beach, Fla.  
WKBB ak 100 (.25) C Y E. Dubuque, Ill.  
WKBV ak 100 (.25) Richmond, Ind.  
WKBZ ak 100 (.25) Muskegon, Mich.  
WKEU ak 100 D Griffin, Ga.  
WMBO ak 100 I Brooklyn, N. Y.  
WMEX ak 100 (.25) Boston, Mass.  
WNB F ak 100 C(.25) Binghamton, N. Y.  
WNLC ak 100 DM New London, Conn.  
WOMI ak 100 (.25) Owensboro, Ky.  
WOPI ak 100 Bristol, Tenn.  
WRDW ak 100 C(.25) Augusta, Ga.  
WRGA ak 100 (.25) Rome, Ga.  
WRTD ak 100 B Richmond, Va.  
WSYB ak 100 Rutland, Vt.  
WTMV ak 100 (.25) E. St. Louis, Ill.  
WWRL ak 100 I (.25) Woodside, N. Y.  
WWSW ak 100 (.25) Pittsburgh, Pa.

1510 kcys. (198.6)

CFRC ak 100 F Kingston, Ont.  
CKCR ak 100 Waterloo, Ont.

1520 kcys. (197.3)

TGW ak 1000 Guatemala City, Guat.

1530 kcys. (196.0)

KXBY ak 1000 Kansas City, Mo.  
WBR Y ak 1000 M Waterbury, Conn.

1550 kcys. (193.4)

KPMC ak 1000 M Bakersfield, Calif.  
WQXR ak 1000 New York, N. Y.

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

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

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Thomasville WPAX 1210 100 Waycross WAYX 1200 100</p> <hr/> <p style="text-align: center;">HAWAII</p> <hr/> <p>Hilo KHBC 1400 250M Honolulu KGMB 1320 1000 C KGU 750 2500 N</p> <hr/> <p style="text-align: center;">IDAHO</p> <hr/> <p>Boise KIDO 1350 1000 N Coeur d'Alene KGCJ 1200 100 Idaho Falls KID 1320 500 Lewiston KRLC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 N Twin Falls KTFI 1240 1000 N</p> <hr/> <p style="text-align: center;">ILLINOIS</p> <hr/> <p>Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Champaign WDWS 1370 100 Chicago WAAF 920 1000 WBBM 779 50000 C WGBD 1080 5000 WGFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGES 1360 500 WGN 720 50000M WJJD 1130 20000 WLS 870 50000 B WMAO 670 50000 R WMBI 1080 5000 WSBC 1210 100 Cicero WHFC 1420 100 Decatur WJBL 1200 100 East Dubuque WKBB 1500 100 C East St. Louis WTMV 1500 100 Galesburg WGIL 1500 250 Harrisburg WEBQ 1210 100 Joliet WCLS 1310 100 Peoria WMBD 1440 1000 C Quincy WTAD 900 1000</p>	<p>Rockford WROK 1410 500 Rock Island WHBF 1210 100 Springfield WCBS 1420 100 WTAX 1210 100 Tuscola WDZ 1020 250 Urbana WILL 580 1000</p> <hr/> <p style="text-align: center;">INDIANA</p> <hr/> <p>Anderson WHBU 1210 100 Elkhart WTRC 1310 100 Evansville WEOA 1370 100 C WGBF 630 500 N Fort Wayne WGL 1370 100 N WOWO 1160 10000 B Gary WIND 560 1000 Hammond WHIP 1480 5000 WWAE 1200 100 Indianapolis WFBM 1230 1000 C WGVA 1050 1000 WIRE 1400 1000 R Muncie WLBC 1310 100 New Albany WGRC 1370 250 Richmond WKBV 1500 100 South Bend WFAM 1200 100 WSBT 1360 500 Terre Haute WBOW 1310 100 N West Lafayette WBAA 890 500</p> <hr/> <p style="text-align: center;">IOWA</p> <hr/> <p>Ames WOI 640 5000 Boone KFGQ 1370 100 Cedar Rapids WMT 600 1000 B Davenport WOC 1370 100 C Decorah KGCA 1270 100 KWLC 1270 100 Des Moines KRNT 1320 1000 C KSO 1430 500 B WHO 1000 50000 R Dubuque KDTH 1340 500 Iowa City WSUI 880 500</p>	<p>Marshalltown KFJB 1200 100 Mason City KGLO 1210 100 C Shenandoah KFNF 890 500 KMA 930 1000 Sioux City KSCJ 1330 1000 C KTRI 1420 100</p> <hr/> <p style="text-align: center;">KANSAS</p> <hr/> <p>Abilene KFBI 1050 5000 Coffeyville KGGF 1010 1000M Dodge City KGNO 1340 250 Garden City KIUL 1210 100 Great Bend KVGB 1370 100 Hutchinson KWBG 1420 100 Kansas City KCKN 1310 100 Lawrence KFKU 1220 1000 WREN 1220 1000 B Manhattan KSAC 580 500 Pittsburg KOAM 790 1000 N Salina KSAL 1500 100 Topeka WIBW 580 1000 C Wichita KANS 1210 100 B KFH 1300 1000 C</p> <hr/> <p style="text-align: center;">KENTUCKY</p> <hr/> <p>Ashland WCMI 1310 100 Covington WCKY 1490 10000 N Lexington WLAP 1420 100 Louisville WAVE 940 1000 N WHAS 820 50000 C Middlesboro WLMU 1210 100 Owensboro WOMI 1500 100 Paducah WPAD 1420 100</p> <hr/> <p style="text-align: center;">LOUISIANA</p> <hr/> <p>Alexandria KALB 1210 100 Baton Rouge WJBO 1120 500 B Lafayette KVOL 1310 100</p>	<p>Lake Charles KPLC 1500 100 Monroe KMLB 1200 100 New Orleans WBNO 1200 100 WDSU 1250 1000 B WJBW 1200 100 WSMB 1320 1000 R WWL 850 10000 C Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 10000 C</p> <hr/> <p style="text-align: center;">MAINE</p> <hr/> <p>Augusta WRDO 1370 100M Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R WGAN 640 500 Presque Isle WAGM 1420 100</p> <hr/> <p style="text-align: center;">MARYLAND</p> <hr/> <p>Baltimore WBAL 760 2500 B WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R College Park W3XJ 1060 100 Cumberland WTBO 800 250 Frederick WFMD 900 500 Hagerstown WJEJ 1210 50 Salisbury WSAL 1200 250</p> <hr/> <p style="text-align: center;">MASSACHUSETTS</p> <hr/> <p>Boston WAAB 1410 500M WBZ 990 50000 B WCOP 1120 500 WEI 590 1000 C WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 R WQRL 920 500 Fall River WSAR 1450 1000M Greenfield WHAI 1210 250 Lawrence WLAW 680 1000 WLLH 1370 100 Lowell WLLH 1370 100M New Bedford WNBH 1310 100M Pittsfield WBRK 1310 100 C</p>
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## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Springfield  
 WBZA 990 1000 B  
 WMAS 1420 100 C  
 WSPR 1140 500M  
 Worcester  
 WORC 1280 500 C  
 WTAG 580 1000 R

### MICHIGAN

Battle Creek  
 WELL 1420 100  
 Bay City  
 WBCM 1410 500  
 Calumet  
 WHDF 1370 100  
 Detroit  
 WJBK 1500 100  
 WJR 750 50000 C  
 WMBG 1420 100  
 WWJ 920 5000 R  
 WXYZ 1240 1000 B  
 East Lansing  
 WKAR 850 1000  
 Flint  
 WFDF 1310 100  
 Grand Rapids  
 WASH 1270 500 N  
 WOOD 1270 500 N  
 Ironwood  
 WJMS 1420 100  
 Jackson  
 WIBM 1370 100  
 Kalamazoo  
 WKZO 590 1000 B  
 Lansing  
 WJIM 1210 100  
 Lapeer  
 WMPC 1200 100  
 Marquette  
 WBEO 1310 100  
 Muskegon  
 WKBZ 1500 100  
 Port Huron  
 WHLS 1370 250  
 Royal Oak  
 WEXL 1310 50  
 Saginaw  
 WHAL 950 500

### MINNESOTA

Albert Lea  
 KATE 1420 250  
 Duluth  
 KDAL 1500 100 C  
 WEBC 1290 1000 N  
 Fergus Falls  
 KGDE 1200 100  
 Hibbing  
 WMFG 1210 100  
 Mankato  
 KYSM 1500 100  
 Minneapolis  
 WCCO 810 50000 C  
 WDGY 1180 1000 C  
 WLB 1250 1000  
 WTCN 1250 1000 B  
 Moorhead  
 KVOX 1310 100  
 Northfield  
 WCAL 1250 1000  
 Rochester  
 KROC 1310 100  
 St. Cloud  
 KFAM 1420 100

St. Paul  
 KSTP 1460 10000 R  
 WMIN 1370 100  
 Virginia  
 WHLB 1370 100 C  
 Winona  
 KWNO 1200 250

### MISSISSIPPI

Grenada  
 WGRM 1210 100  
 Gulfport  
 WGCM 1210 100  
 Hattiesburg  
 WFOR 1370 100  
 Jackson  
 WJDX 1270 1000 R  
 Kosciusko  
 WHEF 1500 100  
 Laurel  
 WAML 1310 100  
 Meridian  
 WCOC 880 500 C  
 Vicksburg  
 WQBC 1360 1000

### MISSOURI

Cape Girardeau  
 KFVS 1210 100  
 Columbia  
 KFRU 630 500  
 Jefferson City  
 KWOS 1310 100  
 Joplin  
 WMBH 1420 100  
 Kansas City  
 KCMO 1370 100  
 KMBC 950 1000 C  
 KXBY 1530 1000  
 WDAF 610 1000 R  
 WHB 860 1000M  
 Poplar Bluff  
 KWOC 1310 100  
 St. Joseph  
 KFEQ 680 2500  
 St. Louis  
 KFUD 550 500  
 KMOX 1090 50000 C  
 KSD 550 1000 R  
 KWK 1350 1000 B  
 KXOK 1250 1000  
 WEW 760 1000  
 WIL 1200 100  
 Springfield  
 KGBX 1230 500 N  
 KWTO 560 5000

### MONTANA

Billings  
 KGHL 780 1000 N  
 Bozeman  
 . . . . 1420 100  
 Butte  
 KGIR 1340 1000 N  
 Great Falls  
 KFBB 1280 1000 C  
 Helena  
 KPFA 1210 100 N  
 Kalispell  
 KGEZ 1310 100  
 Lewistown  
 KDNC 1200 100  
 Missoula  
 KGVO 1260 1000 C

Wolf Point  
 KGCX 1450 1000

### NEBRASKA

Clay Center  
 KMMJ 740 1000  
 Kearney  
 KGFV 1310 100  
 Lincoln  
 KFAB 770 10000 C  
 KFOR 1210 100 C  
 Norfolk  
 WJAG 1060 1000  
 North Platte  
 KGNF 1430 1000  
 Omaha  
 KOIL 1260 1000 B  
 WAAW 660 500  
 WOW 590 1000 R  
 Scottsbluff  
 KGKY 1500 100

### NEVADA

Reno  
 KOH 1380 500 C

### NEW HAMPSHIRE

Laconia  
 WLNH 1310 100M  
 Manchester  
 WFEA 1340 500 N  
 Portsmouth  
 WHEB 740 250

### NEW JERSEY

Asbury Park  
 WCAP 1280 500  
 Atlantic City  
 WPG 1100 5000 C  
 Bridgeton  
 WSNJ 1210 100  
 Camden  
 WCAM 1280 500  
 Jersey City  
 WAAT 940 500  
 WHOM 1450 250  
 Newark  
 WHBI 1250 1000  
 WOR 710 50000M  
 Red Bank  
 WBRB 1210 100  
 Trenton  
 WTNJ 1280 500  
 Whippany  
 W3XDD . . . . 50000  
 Zarephath  
 WAWZ 1350 500

### NEW MEXICO

Albuquerque  
 KGGM 1230 1000  
 KOB 1180 10000 N  
 Carlsbad  
 KLAH 1210 100  
 Clovis  
 KICA 1370 100

Gallup  
 KAWM 1500 100  
 Hobbs  
 KWEW 1500 100  
 Roswell  
 KGFL 1370 100  
 Santa Fe  
 KRQA 1310 100

### NEW YORK

Albany  
 WABY 1370 100  
 WOKO 1430 500 C  
 Auburn  
 WMBO 1310 100  
 Binghamton  
 WBNF 1500 100 C  
 Brooklyn  
 WARD 1400 500  
 WBBC 1400 500  
 WBBR 1300 1000  
 WCNW 1500 100  
 WLTH 1400 500  
 WMBO 1500 100  
 WVFW 1400 500  
 Buffalo  
 WBEN 900 1000 R  
 WBNY 1370 100  
 WEBR 1310 100 B  
 WGR 550 1000 C  
 WKBW 1480 5000 C  
 WWSV 1370 50  
 Canton  
 WCAD 1220 500  
 Elmira  
 WESG 850 1000 C  
 Freeport  
 WGBB 1210 100  
 Jamestown  
 WJTN 1210 100 B  
 Newburgh  
 WGNV 1210 100  
 New York  
 WABC 860 50000 C  
 WBIL 1100 5000  
 WBNX 1350 1000  
 WBOQ 860 50000  
 WEOF 660 50000 R  
 WEVD 1300 1000  
 WFAB 1300 1000  
 WHN 1010 1000  
 WINS 1180 1000  
 WJZ 760 50000 B  
 WMCA 570 1000  
 WNEW 1250 1000  
 WNYC 810 1000  
 WOY 1130 1000  
 WQXR 1550 1000  
 Olean  
 WHDL 1400 250  
 Plattsburg  
 WMFF 1310 100  
 Rochester  
 WHAM 1150 50000 B  
 WHEC 1430 500 C  
 WSAV 1210 100  
 Saranac Lake  
 WNBZ 1290 100  
 Schenectady  
 WGY 790 50000 R  
 Syracuse  
 WFBL 1360 1000 C  
 WSYR 570 1000 B

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

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

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Nashville WLAC 1470 5000 C WSIX 1210 100 WSM 650 50000 N</p> <p style="text-align: center;"><b>TEXAS</b></p> <p>Abilene KRBC 1420 100</p> <p>Amarillo KGNC 1410 1000 N</p> <p>Austin KNOW 1500 100 C KTBC 1120 1000</p> <p>Beaumont KFDM 560 500 N KRIC 1420 100</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 250</p> <p>Brownsville KGFI 1500 100</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KRIS 1330 500 N</p> <p>Corsicana KAND 1310 100</p> <p>Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M</p> <p>Denton KDNT 1420 100</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100</p> <p>Fort Worth KFJZ 1370 100 KTAT 1240 1000M WBAP 800 50000 N</p> <p>Galveston KLUF 1370 100</p> <p>Greenville KGVL 1200 100</p> <p>Houston KPRC 920 1000 R KTRH 1290 1000 C KXYZ 1440 1000 B</p> <p>Kilgore KOCA 1210 100</p> <p>Laredo KPAB 1500 100</p> <p>Longview KFRO 1370 250</p> <p>Lubbock KPYO 1310 100</p> <p>Lufkin KRBA 1310 100</p> <p>Midland KRLH 1420 100</p> <p>Palestine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p> <p>Paris KPLT 1500 250</p> <p>Pecos KIUN 1420 100</p> <p>Port Arthur KPAC 1260 500</p>	<p>San Angelo KGKL 1370 100</p> <p>San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WOAI 1190 50000 N</p> <p>Sherman KRRV 1310 250</p> <p>Temple KTEM 1370 250</p> <p>Texarkana KCMC 1420 100</p> <p>Tyler KGKB 1500 100</p> <p>Waco WACO 1420 100 C</p> <p>Weslaco KRGV 1260 1000 N</p> <p>Wichita Falls KGKO 570 250 N</p> <p style="text-align: center;"><b>UTAH</b></p> <p>Cedar City KSUB 1310 100</p> <p>Logan KVNU 1500 100</p> <p>Ogden KLO 1400 500 B</p> <p>Price KEUB 1420 100</p> <p>Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100</p> <p style="text-align: center;"><b>VERMONT</b></p> <p>Burlington WCAX 1200 100</p> <p>Rutland WSYB 1500 100</p> <p>St. Albans WQDM 1390 1000</p> <p>Springfield WNBX 1260 500 C</p> <p>Waterbury WDEV 550 500</p> <p style="text-align: center;"><b>VIRGINIA</b></p> <p>Charlottesville WCHV 1420 100</p> <p>Danville WBTM 1370 100</p> <p>Harrisonburg WSVA 550 500</p> <p>Lynchburg WLVA 1200 100</p> <p>Newport News WGH 1310 100</p> <p>Norfolk WTAR 780 1000 N</p> <p>Richmond WBBL 1210 100 WMBG 1350 500 R WRNL 880 500 WRTD 1500 100 B WRVA 1110 5000 C</p> <p>Roanoke WDBJ 930 1000 C</p> <p style="text-align: center;"><b>WASHINGTON</b></p> <p>Aberdeen KXRO 1310 100M</p>	<p>Bellingham KVOS 1200 100M</p> <p>Centralia KELA 1440 500M</p> <p>Everett KRKO 1370 50</p> <p>Longview KWLK 780 250</p> <p>Olympia KGY 1210 100M</p> <p>Pullman KWSC 1220 1000</p> <p>Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250</p> <p>Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R</p> <p>Tacoma KMO 1330 1000M KVI 570 1000 C</p> <p>Walla Walla KUJ 1370 100</p> <p>Wenatchee KPQ 1500 100M</p> <p>Yakima KIT 1250 250M</p> <p style="text-align: center;"><b>WEST VIRGINIA</b></p> <p>Bluefield WHIS 1410 500</p> <p>Charleston WCHS 580 500 C</p> <p>Clarksburg WBLK 1370 100</p> <p>Fairmont WMMN 890 500 C</p> <p>Huntington WSAZ 1190 1000</p> <p>Parkersburg WPAR 1420 100 C</p> <p>Wheeling WWVA 1160 5000 C</p> <p style="text-align: center;"><b>WISCONSIN</b></p> <p>Eau Claire WEAU 1050 1000</p> <p>Fond du Lac KFIZ 1420 100</p> <p>Green Bay WHBY 1200 100</p> <p>WTAQ 1330 1000 C</p> <p>Janesville WCLO 1200 100</p> <p>LaCrosse WKBH 1380 1000 C</p> <p>Madison WHA 940 5000 WIBA 1280 1000 N</p> <p>Manitowoc WOMT 1210 100</p> <p>Milwaukee WEMP 1310 100</p>	<p>WISN 1120 250 C WTMJ 620 1000 N</p> <p>Poynette WIBU 1210 100</p> <p>Racine WRJN 1370 100</p> <p>Rice Lake 1210 100</p> <p>Sheboygan WHBL 1300 250</p> <p>Stevens Point WLBL 900 5000</p> <p>Superior WDSM 1200 100</p> <p>Wausau WSAU 1370 100</p> <p style="text-align: center;"><b>WYOMING</b></p> <p>Casper KDFN 1440 500</p> <p>Rock Springs KVR5 1370 100</p> <p>Sheridan KWYO 1370 100</p> <p style="text-align: center;"><b>BAHAMAS</b></p> <p>Nassau ZNS 540 400</p> <p style="text-align: center;"><b>CANADA</b></p> <p style="text-align: center;"><b>ALBERTA</b></p> <p>Calgary CFAC 930 1000 F CFCN 1030 10000 F CJGJ 690 100 F</p> <p>Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500 F</p> <p>Grande Prairie CFGP 1200 100</p> <p>Lethbridge CJOC 950 100 F</p> <p style="text-align: center;"><b>BRIT. COLUMBIA</b></p> <p>Chilliwack CHWK 780 100 F</p> <p>Kamloops CFJC 880 1000 F</p> <p>Kelowna CKOV 630 100 F</p> <p>Prince Rupert CFPR 580 50</p> <p>Trail CJAT 910 1000 F</p> <p>Vancouver CBR 1100 5000 F CJOR 600 500 CKCD 1010 100 CKFC 1410 50 CKMO 1410 100 CKWX 1010 100</p> <p>Victoria CFCT 1450 500</p> <p style="text-align: center;"><b>MANITOBA</b></p> <p>Brandon CKX 1120 1000 F Flin Flon CFAR 1370 100</p>
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**NORTH AMERICAN B. C. STATIONS BY LOCATIONS**

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

<p><b>Mexico City</b></p> <p>XEAI 1250 500          XEAL 660 1000          XEB 1030 10000          XEBS 1340 200          XEBZ 810 100          XEDP 1080 500          XEFO 940 5000          XEJP 1130 100          XEJW 870 500          XEK 890 100          XEL 1100 250          XELZ 1370 100          XEMX 1280 100          XEN 780 1000          XENC 860 50          XEW 890 50000          XEXM 610 500          XEXS 1310 100          XEXX 1170 1000          XEYO 610 500</p> <p><b>Tacuba</b></p> <p>XEFA 1180 500</p> <p><b>Texcoco</b></p> <p>XEXE 1270 17</p> <hr/> <p style="text-align: center;"><b>DURANGO</b></p> <p><b>Durango</b></p> <p>XEBP 1150 250          XEE 1210 50</p> <hr/> <p style="text-align: center;"><b>GUANAJUATO</b></p> <p><b>Irapuato</b></p> <p>XEBÓ 1310 25</p>	<p><b>Leon</b></p> <p>XEFM 1160 20          XEKL 1240 500</p> <hr/> <p style="text-align: center;"><b>JALISCO</b></p> <p><b>Guadalajara</b></p> <p>XED 1160 2500</p> <p><b>Guzman</b></p> <p>XEBA 1080 20</p> <hr/> <p style="text-align: center;"><b>MICHOACAN</b></p> <p><b>Morelia</b></p> <p>XEI 1370 125</p> <hr/> <p style="text-align: center;"><b>NUEVO LEON</b></p> <p><b>Monterrey</b></p> <p>XEFB 870 200          XEG 1230 250          XEH 720 250          XET 690 5000          XEX 1310 125</p> <hr/> <p style="text-align: center;"><b>PUEBLA</b></p> <p><b>Puebla</b></p> <p>XETH 1210 100</p> <hr/> <p style="text-align: center;"><b>SAN LUIS POTOSI</b></p> <p><b>San Luis Potosi</b></p> <p>XECZ 1370 100          XEXH 1250 250</p>	<p style="text-align: center;"><b>SINALOA</b></p> <p><b>Mazatlan</b></p> <p>XEBL 1220 50</p> <hr/> <p style="text-align: center;"><b>SONORA</b></p> <p><b>Cananea</b></p> <p>XEFQ 1010 50</p> <p><b>Hermosillo</b></p> <p>XEBH 930 500</p> <p><b>Nogales</b></p> <p>XEAF 990 750</p> <p><b>Obregon</b></p> <p>XEAP 1340 50</p> <hr/> <p style="text-align: center;"><b>TAMAULIPAS</b></p> <p><b>Matamoros</b></p> <p>XEAM 750 25</p> <p><b>Nuevo Laredo</b></p> <p>XEBK 1080 100          XEDF 810 100          XEFE 980 250          XENT 910 150000</p> <p><b>Reynosa</b></p> <p>XEAW 960 100000</p> <p><b>Tampico</b></p> <p>XEFW 1310 300          XES 990 250</p>	<p style="text-align: center;"><b>VERACRUZ</b></p> <p><b>Cordoba</b></p> <p>XEAG 1310 10</p> <p><b>Jalapa</b></p> <p>XEXB 1270 250          XEXD 1340 350</p> <p><b>Minatitlan</b></p> <p>XEDW 1150 20</p> <p><b>Veracruz</b></p> <p>XETF 1220 12          XEU 1010 250</p> <hr/> <p style="text-align: center;"><b>YUCATAN</b></p> <p><b>Merida</b></p> <p>XEFC 550 100          XEME 1240 50          XEZ 630 500</p> <hr/> <p style="text-align: center;"><b>ZACATECAS</b></p> <p><b>Zacatecas</b></p> <p>XEAZ 1230 200</p> <p style="text-align: center;"><b>MIQUELON</b></p> <p><b>St. Pierre</b></p> <p>FQN 609 250</p> <p style="text-align: center;"><b>NEWFOUNDLAND</b></p> <p><b>St. John's</b></p> <p>VOAC 1065 40          VOAS 940 100          VOVM 1006 200          VOGY 840 400          VONF 1195 500          VOWR 681 500</p>
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## NORTH AMERICAN B. C. STATIONS BY CALLS

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

<b>CKAC</b> 730 Montreal, Que.	5000	<b>CMBY</b> 970 Havana, Cuba	150	<b>CMJH</b> 1360 Ciego de Avila, Cuba	50
<b>CKBI</b> 1210 Prince Albert, Sask.	100	<b>CMBZ</b> 1000 Havana, Cuba	500	<b>CMJI</b> 1130 Ciego de Avila, Cuba	150
<b>CKCD</b> 1010 Vancouver, B. C.	100	<b>CMC</b> 1260 Havana, Cuba	150	<b>CMJK</b> 780 Camaguey, Cuba	250
<b>CKCH</b> 1210 Hull, Que.	100	<b>CMCA</b> 1350 Havana, Cuba	450	<b>CMJO</b> 1180 Ciego de Avila, Cuba	50
<b>CKCK</b> 1010 Regina, Sask.	1000	<b>CMCB</b> 1230 Havana, Cuba	150	<b>CMJP</b> 1430 Camaguey, Cuba	75
<b>CKCL</b> 580 Toronto, Ont.	100	<b>CMCD</b> 630 Havana, Cuba	250	<b>CMJQ</b> 1080 Camaguey, Cuba	200
<b>CKCO</b> 1010 Ottawa, Ont.	100	<b>CMCF</b> 810 Havana, Cuba	600	<b>CMJW</b> 1340 Camaguey, Cuba	300
<b>CKCR</b> 1510 Waterloo, Ont.	100	<b>CMCG</b> 680 Havana, Cuba	1000	<b>CMJX</b> 830 Camaguey, Cuba	500
<b>CKCV</b> 1310 Quebec, Que.	100	<b>CMCJ</b> 1110 Havana, Cuba	500	<b>CMK</b> 720 Havana, Cuba	3000
<b>CKCW</b> 1370 Moncton, N. B.	100	<b>CMCK</b> 1030 Havana, Cuba	5000	<b>CMKC</b> 1250 Santiago, Cuba	150
<b>CKFC</b> 1410 Vancouver, B. C.	50	<b>CMCL</b> 730 Havana, Cuba	10000	<b>CMKD</b> 1050 Santiago, Cuba	250
<b>CKGB</b> 1420 North Bay, Ont.	100	<b>CMCM</b> 850 Havana, Cuba	.....	<b>CMKF</b> 1460 Holguin, Cuba	250
<b>CKIC</b> 1010 Wolfville, N. S.	50	<b>CMCO</b> 1200 Havana, Cuba	250	<b>CMKG</b> 1160 Santiago, Cuba	.....
<b>CKLW</b> 1030 Windsor, Ont.	5000	<b>CMCQ</b> 1410 Havana, Cuba	5000	<b>CMKL</b> 990 Bayamo, Cuba	.....
<b>CKMC</b> 1210 Cobalt, Ont.	50	<b>CMCR</b> 1380 Havana, Cuba	.....	<b>CMKM</b> 1120 Manzanillo, Cuba	200
<b>CKMO</b> 1410 Vancouver, B. C.	100	<b>CMCU</b> 1290 Havana, Cuba	500	<b>CMKO</b> 1280 Holguin, Cuba	.....
<b>CKNX</b> 1200 Wingham, Ont.	100	<b>CMCW</b> 1140 Havana, Cuba	500	<b>CMKR</b> 1400 Santiago, Cuba	100
<b>CKOC</b> 1120 Hamilton, Ont.	500	<b>CMCX</b> 1380 Havana, Cuba	150	<b>CMKS</b> 960 Guantanamo, Cuba	.....
<b>CKOV</b> 630 Kelowna, B. C.	100	<b>CMCY</b> 570 Havana, Cuba	5000	<b>CMKW</b> 1350 Santiago, Cuba	.....
<b>CKPC</b> 930 Brantford, Ont.	100	<b>CMGC</b> 1400 Matanzas, Cuba	150	<b>CMKX</b> 1190 Santiago, Cuba	.....
<b>CKPR</b> 730 Fort William, Ont.	100	<b>CMGE</b> 1370 Cardenas, Cuba	150	<b>CMOA</b> 1440 Havana, Cuba	150
<b>CKSO</b> 780 Sudbury, Ont.	1000	<b>CMGF</b> 1120 Matanzas, Cuba	250	<b>CMOX</b> 1320 Havana, Cuba	200
<b>CKTB</b> 1200 St. Catharines, Ont.	100	<b>CMGH</b> 790 Matanzas, Cuba	500	<b>CMQ</b> 600 Havana, Cuba	25000
<b>CKUA</b> 580 Edmonton, Alta.	500	<b>CMHA</b> 1070 Sagua la Grande, Cuba	50	<b>CMW</b> 880 Havana, Cuba	1400
<b>CKWX</b> 1010 Vancouver, B. C.	100	<b>CMHB</b> 1240 Sancti Spiritus, Cuba	50	<b>CMX</b> 920 Havana, Cuba	1000
<b>CKX</b> 1120 Brandon, Man.	1000	<b>CMHD</b> 1270 Calbarien, Cuba	250	<b>CRCK</b> 950 Quebec, Que.	1000
<b>CKY</b> 910 Winnipeg, Man.	15000	<b>CMHI</b> 1210 Santa Clara, Cuba	150	<b>CRCS</b> 1120 Chicoutimi, Que.	100
<b>CMAB</b> 1340 Pinar del Rio, Cuba	300	<b>CMHJ</b> 1160 Cienfuegos, Cuba	175	<b>CRCY</b> 960 Toronto, Ont.	100
<b>CMBC</b> 950 Havana, Cuba	10000	<b>CMHK</b> 1330 Cruces, Cuba	250	<b>FQN</b> 609 St. Pierre, Miquelon	250
<b>CMBD</b> 1260 Havana, Cuba	500	<b>CMHM</b> 1450 Cienfuegos, Cuba	100	<b>HIT</b> 1050 Trujillo, D. R.	50
<b>CMBF</b> 770 Havana, Cuba	10000	<b>CMHW</b> 820 Santa Clara, Cuba	100	<b>HIX</b> 800 Trujillo, D. R.	800
<b>CMBL</b> 750 Havana, Cuba	2500	<b>CMHX</b> 760 Cienfuegos, Cuba	200	<b>H17P</b> 1300 Trujillo, D. R.	25
<b>CMBQ</b> 680 Havana, Cuba	5000	<b>CMJA</b> 1010 Camaguey, Cuba	300	<b>HRN</b> 1250 Tegucigalpa, Honduras	50
<b>CMBS</b> 1170 Havana, Cuba	150	<b>CMJC</b> 1390 Camaguey, Cuba	150	<b>KABC</b> 1420 San Antonio, Texas	100
<b>CMBX</b> 1070 Havana, Cuba	500	<b>CMJE</b> 1220 Camaguey, Cuba	50	<b>KABR</b> 1420 Aberdeen, S. Dak.	100
		<b>CMJF</b> 1150 Camaguey, Cuba	200	<b>KADA</b> 1200 Ada, Okla.	100

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KALB</b> 1210	100	<b>KERN</b> 1370	100	<b>KFSG</b> 1120	500
Alexandria, La.		Bakersfield, Calif.		Los Angeles, Calif.	
<b>KALE</b> 1300	1000	<b>KEUB</b> 1420	100	<b>KFUO</b> 550	500
Portland, Ore.		Price, Utah		St. Louis, Mo.	
<b>KAND</b> 1310	100	<b>KEX</b> 1180	5000	<b>KFVD</b> 1000	1000
Corsicana, Texas		Portland, Ore.		Los Angeles, Calif.	
<b>KANS</b> 1210	100	<b>KFAB</b> 770	10000	<b>KFVS</b> 1210	100
Wichita, Kans.		Lincoln, Neb.		Cape Girardeau, Mo.	
<b>KARK</b> 890	500	<b>KFAC</b> 1300	1000	<b>KFWB</b> 950	1000
Little Rock, Ark.		Los Angeles, Calif.		Hollywood, Calif.	
<b>KARM</b> 1310	100	<b>KFAM</b> 1420	100	<b>KFXD</b> 1200	100
Fresno, Calif.		St. Cloud, Minn.		Nampa, Idaho	
<b>KASA</b> 1210	100	<b>KFBB</b> 1280	1000	<b>KFXJ</b> 1200	100
Elk City, Okla.		Great Falls, Mont.		Grand Junction, Colo.	
<b>KAST</b> 1370	100	<b>KFBI</b> 1050	5000	<b>KFXM</b> 1210	100
Astoria, Ore.		Abilene, Kans.		San Bernardino, Calif.	
<b>KATE</b> 1420	250	<b>KFBK</b> 1490	10000	<b>KFXR</b> 1310	100
Albert Lea, Minn.		Sacramento, Calif.		Oklahoma City, Okla.	
<b>KAWM</b> 1500	100	<b>KFDM</b> 560	500	<b>KFYO</b> 1310	100
Gallup, N. Mex.		Beaumont, Texas		Lubbock, Texas	
<b>KBIX</b> 1500	100	<b>KFDY</b> 780	1000	<b>KFYR</b> 550	1000
Muskogee, Okla.		Brookings, S. D.		Bismarck, N. D.	
<b>KBPS</b> 1420	100	<b>KFEL</b> 920	500	<b>KGA</b> 1470	5000
Portland, Ore.		Denver, Colo.		Spokane, Wash.	
<b>KBST</b> 1500	100	<b>KFEQ</b> 680	2500	<b>KGAR</b> 1370	100
Big Spring, Texas		St. Joseph, Mo.		Tucson, Ariz.	
<b>KBTM</b> 1200	100	<b>KFGQ</b> 1370	100	<b>KGB</b> 1330	1000
Jonesboro, Ark.		Boone, Iowa		San Diego, Calif.	
<b>KCKN</b> 1310	100	<b>KFH</b> 1300	1000	<b>KGBU</b> 900	500
Kansas City, Kans.		Wichita, Kans.		Ketchikan, Alaska	
<b>KCMC</b> 1420	100	<b>KFI</b> 640	50000	<b>KGBX</b> 1230	500
Texarkana, Texas		Los Angeles, Calif.		Springfield, Mo.	
<b>KCMO</b> 1370	100	<b>KFIO</b> 1120	100	<b>KGCA</b> 1270	100
Kansas City, Mo.		Spokane, Wash.		Decorah, Iowa	
<b>KCRC</b> 1360	250	<b>KFIZ</b> 1420	100	<b>KGCI</b> 1200	100
Enid, Okla.		Fond du Lac, Wis.		Coeur d'Alene, Idaho	
<b>KCRJ</b> 1310	100	<b>KFJB</b> 1200	100	<b>KGCU</b> 1240	250
Jerome, Ariz.		Marshalltown, Iowa		Mandan, N. D.	
<b>KDAL</b> 1500	100	<b>KFJI</b> 1210	100	<b>KG CX</b> 1450	1000
Duluth, Minn.		Klamath Falls, Ore.		Wolf Point, Mont.	
<b>KDB</b> 1500	100	<b>KFJM</b> 1410	500	<b>KGDE</b> 1200	100
Santa Barbara, Calif.		Grand Forks, N. D.		Fergus Falls, Minn.	
<b>KDFN</b> 1440	500	<b>KFJZ</b> 1370	100	<b>KGDM</b> 1100	1000
Casper, Wyo.		Fort Worth, Texas		Stockton, Calif.	
<b>KDKA</b> 980	50000	<b>KFKA</b> 880	500	<b>KG DY</b> 1340	250
Pittsburgh, Pa.		Greeley, Colo.		Huron, S. D.	
<b>KDLR</b> 1210	100	<b>KFKU</b> 1220	1000	<b>KG EK</b> 1200	100
Devils Lake, N. D.		Lawrence, Kans.		Sterling, Colo.	
<b>KDNC</b> 1200	100	<b>KFNF</b> 890	500	<b>KGER</b> 1360	1000
Lewistown, Mont.		Shenandoah, Iowa		Long Beach, Calif.	
<b>KDNT</b> 1420	100	<b>KFOR</b> 1210	100	<b>KGEZ</b> 1310	100
Denton, Texas		Lincoln, Neb.		Kalispell, Mont.	
<b>KDON</b> 1210	100	<b>KFOX</b> 1250	1000	<b>KGFF</b> 1420	100
Monterey, Calif.		Long Beach, Calif.		Shawnee, Okla.	
<b>KDTH</b> 1340	500	<b>KFPL</b> 1310	100	<b>KGFI</b> 1500	100
Dubuque, Iowa		Dublin, Texas		Brownsville, Tex.	
<b>KDYL</b> 1290	1000	<b>KFPW</b> 1210	100	<b>KG FJ</b> 1200	100
Salt Lake City, Utah		Fort Smith, Ark.		Los Angeles, Calif.	
<b>KECA</b> 1430	1000	<b>KFPY</b> 890	1000	<b>KGFL</b> 1370	100
Los Angeles, Calif.		Spokane, Wash.		Roswell, N. M.	
<b>KEEN</b> 1370	100	<b>KFQD</b> 780	250	<b>KGFW</b> 1310	100
Seattle, Wash.		Anchorage, Alaska		Kearney, Neb.	
<b>KEHE</b> 780	1000	<b>KFRC</b> 610	1000	<b>KGFX</b> 630	200
Los Angeles, Calif.		San Francisco, Calif.		Pierre, S. D.	
<b>KELA</b> 1440	500	<b>KFRO</b> 1370	250	<b>KG GC</b> 1420	100
Centralla, Wash.		Longview, Texas		San Francisco, Calif.	
<b>KELD</b> 1370	100	<b>KFRU</b> 630	500	<b>KG GF</b> 1010	1000
El Dorado, Ark.		Columbia, Mo.		Coffeyville, Kans.	
<b>KELO</b> 1200	100	<b>KFSD</b> 600	1000	<b>KG GM</b> 1230	1000
Sioux Falls, S. Dak.		San Diego, Calif.		Albuquerque, N. M.	

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KGHF</b> 1320 Pueblo, Colo.	500	<b>KIUL</b> 1210 Garden City, Kans.	100	<b>KOCA</b> 1210 Kilgore, Texas	100
<b>KGHI</b> 1200 Little Rock, Ark.	100	<b>KIUN</b> 1420 Pecos, Texas	100	<b>KOH</b> 1380 Reno, Nev.	500
<b>KGHL</b> 780 Billings, Mont.	1000	<b>KIUP</b> 1370 Durango, Colo.	100	<b>KOIL</b> 1260 Omaha, Neb.	1000
<b>KGIR</b> 1340 Butte, Mont.	1000	<b>KJBS</b> 1070 San Francisco, Calif.	500	<b>KOIN</b> 940 Portland, Ore.	1000
<b>KGIW</b> 1420 Alamosa, Colo.	100	<b>KJR</b> 970 Seattle, Wash.	5000	<b>KOKO</b> 1370 La Junta, Colo.	100
<b>KGKB</b> 1500 Tyler, Texas	100	<b>KLAH</b> 1210 Carlsbad, N. Mex.	100	<b>KOL</b> 1270 Seattle, Wash.	1000
<b>KGKL</b> 1370 San Angelo, Texas	100	<b>KLBM</b> 1420 La Grande, Ore.	100	<b>KOMA</b> 1480 Oklahoma City, Okla.	5000
<b>KGKO</b> 570 Wichita Falls, Texas	250	<b>KLCN</b> 1290 Blytheville, Ark.	100	<b>KOMO</b> 920 Seattle, Wash.	1000
<b>KGKY</b> 1500 Scottsbluff, Neb.	100	<b>KLO</b> 1400 Ogden, Utah	500	<b>KONO</b> 1370 San Antonio, Texas	100
<b>KGLO</b> 1210 Mason City, Iowa	100	<b>KLPM</b> 1240 Minot, N. D.	250	<b>KOOS</b> 1200 Marshfield, Ore.	100
<b>KGLU</b> 1420 Safford, Ariz.	100	<b>KLRA</b> 1390 Little Rock, Ark.	1000	<b>KORE</b> 1420 Eugene, Ore.	100
<b>KGMB</b> 1320 Honolulu, T. H.	1000	<b>KLS</b> 1280 Oakland, Calif.	250	<b>KOTN</b> 1500 Pine Bluff, Ark.	100
<b>KGNC</b> 1410 Amarillo, Texas	1000	<b>KLUF</b> 1370 Galveston, Texas	100	<b>KOVC</b> 1500 Valley City, N. Dak.	100
<b>KGNF</b> 1430 North Platte, Neb.	1000	<b>KLX</b> 880 Oakland, Calif.	1000	<b>KOY</b> 1390 Phoenix, Ariz.	1000
<b>KGNO</b> 1340 Dodge City, Kans.	250	<b>KLZ</b> 560 Denver, Colo.	1000	<b>KPAB</b> 1500 Laredo, Texas	100
<b>KGO</b> 790 San Francisco, Calif.	7500	<b>KMA</b> 930 Shenandoah, Iowa	1000	<b>KPAC</b> 1260 Port Arthur, Texas	500
<b>KGU</b> 750 Honolulu, T. H.	2500	<b>KMAC</b> 1370 San Antonio, Texas	100	<b>KPDN</b> 1310 Pampa, Texas	100
<b>KGVL</b> 1200 Greenville, Texas	100	<b>KMBC</b> 950 Kansas City, Mo.	1000	<b>KPFA</b> 1210 Helena, Mont.	100
<b>KGVO</b> 1260 Missoula, Mont.	1000	<b>KMED</b> 1410 Medford, Ore.	250	<b>KPLC</b> 1500 Lake Charles, La.	100
<b>KGW</b> 620 Portland, Ore.	1000	<b>KMJ</b> 580 Fresno, Calif.	1000	<b>KPLT</b> 1500 Paris, Texas	100
<b>KGY</b> 1210 Olympia, Wash.	100	<b>KMLB</b> 1200 Monroe, La.	100	<b>KPMC</b> 1550 Bakersfield, Calif.	1000
<b>KHBC</b> 1400 Hilo, T. H.	250	<b>KMMJ</b> 740 Clay Center, Neb.	1000	<b>KPO</b> 680 San Francisco, Calif.	50000
<b>KHBG</b> 1210 Okmulgee, Okla.	100	<b>KMO</b> 1330 Tacoma, Wash.	1000	<b>KPOF</b> 880 Denver, Colo.	1000
<b>KHJ</b> 900 Los Angeles, Calif.	1000	<b>KMOX</b> 1090 St. Louis, Mo.	50000	<b>KPPC</b> 1210 Pasadena, Calif.	100
<b>KHQ</b> 590 Spokane, Wash.	1000	<b>KMPC</b> 710 Beverly Hills, Calif.	500	<b>KPQ</b> 1500 Wenatchee, Wash.	100
<b>KHSL</b> 1260 Chico, Calif.	250	<b>KMTR</b> 570 Los Angeles, Calif.	1000	<b>KPRC</b> 920 Houston, Texas	1000
<b>KHUB</b> 1310 Watsonville, Calif.	250	<b>KNEL</b> 1500 Brady, Texas	250	<b>KPV</b> 1380 Pittsburgh, Pa.	500
<b>KICA</b> 1370 Clovis, N. M.	100	<b>KNET</b> 1420 Palestine, Texas	100	<b>KQW</b> 1010 San Jose, Calif.	1000
<b>KID</b> 1320 Idaho Falls, Idaho	500	<b>KNOW</b> 1500 Austin, Texas	100	<b>KRBA</b> 1310 Lufkin, Texas	100
<b>KIDO</b> 1350 Boise, Idaho	1000	<b>KNX</b> 1050 Los Angeles, Calif.	50000	<b>KRBC</b> 1420 Arlene, Texas	100
<b>KIDW</b> 1420 Lamar, Colo.	100	<b>KOA</b> 830 Denver, Colo.	50000	<b>KRE</b> 1370 Berkeley, Calif.	100
<b>KIEM</b> 1450 Eureka, Calif.	500	<b>KOAC</b> 550 Corvallis, Ore.	1000	<b>KRGV</b> 1260 Weslaco, Texas	1000
<b>KIEV</b> 850 Glendale, Calif.	250	<b>KOAM</b> 790 Pittsburg, Kans.	1000	<b>KRIC</b> 1420 Beaumont, Texas	100
<b>KINY</b> 1310 Juneau, Alaska	100	<b>KOB</b> 1180 Albuquerque, N. M.	10000	<b>KRIS</b> 1330 Corpus Christi, Tex.	500
<b>KIRO</b> 710 Seattle, Wash.	1000	<b>KOBH</b> 1370 Rapid City, S. Dak.	100	<b>KRKD</b> 1120 Los Angeles, Calif.	500
<b>KIT</b> 1250 Yakima, Wash.	250				

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KRKO</b> 1370 50 Everett, Wash.	<b>KTHS</b> 1060 10000 Hot Springs, Ark.	<b>KWK</b> 1350 1000 St. Louis, Mo.
<b>KRLC</b> 1390 250 Lewiston, Idaho	<b>KTKC</b> 1190 250 Visalia, Calif.	<b>KWKH</b> 1100 10000 Shreveport, La.
<b>KRLD</b> 1040 10000 Dallas, Texas	<b>KTMS</b> 1220 500 Santa Barbara, Calif.	<b>KWLC</b> 1270 100 Decorah, Iowa
<b>KRLH</b> 1420 100 Midland, Texas	<b>KTOK</b> 1370 100 Oklahoma City, Okla.	<b>KWLK</b> 780 250 Longview, Wash.
<b>KRMC</b> 1370 100 Jamestown, N. Dak.	<b>KTRB</b> 740 250 Modesto, Calif.	<b>KWNO</b> 1200 250 Winona, Minn.
<b>KRMD</b> 1310 100 Shreveport, La.	<b>KTRH</b> 1290 1000 Houston, Texas	<b>KWOC</b> 1310 100 Poplar Bluff, Mo.
<b>KRRR</b> 1500 100 Roseburg, Ore.	<b>KTRI</b> 1420 100 Sioux City, Iowa	<b>KWOS</b> 1310 100 Jefferson City, Mo.
<b>KRNT</b> 1320 1000 Des Moines, Iowa	<b>KTSA</b> 550 1000 San Antonio, Texas	<b>KWSC</b> 1220 1000 Pullman, Wash.
<b>KROC</b> 1310 100 Rochester, Minn.	<b>KTSM</b> 1310 100 El Paso, Texas	<b>KWTN</b> 1210 100 Watertown, S. Dak.
<b>KROD</b> 1500 100 El Paso, Texas	<b>KTUL</b> 1400 500 Tulsa, Okla.	<b>KWTO</b> 560 5000 Springfield, Mo.
<b>KROW</b> 930 1000 Oakland, Calif.	<b>KTW</b> 1220 1000 Seattle, Wash.	<b>KWYO</b> 1370 100 Sheridan, Wyo.
<b>KROY</b> 1210 100 Sacramento, Calif.	<b>KUJ</b> 1370 100 Walla Walla, Wash.	<b>KXA</b> 760 250 Seattle, Wash.
<b>KRQA</b> 1310 100 Santa Fe, N. Mex.	<b>KUMA</b> 1420 100 Yuma, Ariz.	<b>KXBY</b> 1530 1000 Kansas City, Mo.
<b>KRRV</b> 1310 250 Sherman, Texas	<b>KUOA</b> 1260 5000 Siloam Springs, Ark.	<b>KXL</b> 1420 100 Portland, Ore.
<b>KRSC</b> 1120 250 Seattle, Wash.	<b>KUSD</b> 890 500 Vermillion, S. Dak.	<b>KXO</b> 1500 100 El Centro, Calif.
<b>KSAC</b> 580 500 Manhattan, Kans.	<b>KUTA</b> 1500 100 Salt Lake City, Utah	<b>KXOK</b> 1250 1000 St. Louis, Mo.
<b>KSAL</b> 1500 100 Salina, Kans.	<b>KVCV</b> 1200 100 Redding, Calif.	<b>KXRO</b> 1310 100 Aberdeen, Wash.
<b>KSCJ</b> 1330 1000 Sioux City, Iowa	<b>KVEC</b> 1200 250 San Luis Obispo, Cal.	<b>KXYZ</b> 1440 1000 Houston, Texas
<b>KSD</b> 550 1000 St. Louis, Mo.	<b>KVGB</b> 1370 100 Great Bend, Kans.	<b>KYA</b> 1230 1000 San Francisco, Calif.
<b>KSEI</b> 900 250 Pocatello, Idaho	<b>KVI</b> 570 1000 Tacoma, Wash.	<b>KYOS</b> 1040 250 Merced, Calif.
<b>KSFO</b> 560 1000 San Francisco, Calif.	<b>KVNU</b> 1500 100 Logan, Utah	<b>KYSM</b> 1500 100 Mankato, Minn.
<b>KSL</b> 1130 50000 Salt Lake City, Utah	<b>KVOA</b> 1260 1000 Tucson, Ariz.	<b>KYW</b> 1020 10000 Philadelphia, Pa.
<b>KSLM</b> 1370 100 Salem, Ore.	<b>KVOD</b> 920 500 Denver, Colo.	<b>TGW</b> 1520 1000 Guatemala City, Guar.
<b>KSO</b> 1430 500 Des Moines, Iowa	<b>KVOE</b> 1500 100 Santa Ana, Calif.	<b>TG1</b> 1305 Guatemala City, Guar.
<b>KSOO</b> 1110 2500 Sioux Falls, S. Dak.	<b>KVOL</b> 1310 100 Lafayette, La.	<b>TIEP</b> 880 1000 San Jose, Costa Rica
<b>KSRO</b> 1310 250 Santa Rosa, Calif.	<b>KVOO</b> 1140 25000 Tulsa, Okla.	<b>TIPG</b> 625 2000 San Jose, Costa Rica
<b>KSTP</b> 1460 10000 St. Paul, Minn.	<b>KVOR</b> 1270 1000 Colorado Springs, Colo.	<b>TIX</b> 650 1000 San Jose, Costa Rica
<b>KSUB</b> 1310 100 Cedar City, Utah	<b>KVOS</b> 1200 100 Bellingham, Wash.	<b>VAS</b> 685 2000 Glance Bay, N. S.
<b>KSUN</b> 1200 100 Lowell, Ariz.	<b>KVOX</b> 1310 100 Moorhead, Minn.	<b>VOAC</b> 1065 40 St. John's, Nfld.
<b>KTAR</b> 620 1000 Phoenix, Ariz.	<b>KVRS</b> 1370 100 Rock Springs, Wyo.	<b>VOAS</b> 940 100 St. John's, Nfld.
<b>KTAT</b> 1240 1000 Fort Worth, Texas	<b>KVSO</b> 1210 100 Ardmore, Okla.	<b>VOCM</b> 1006 200 St. John's, Nfld.
<b>KTBC</b> 1120 1000 Austin, Texas	<b>KWBG</b> 1420 100 Hutchinson, Kans.	<b>VOGY</b> 840 400 St. John's, Nfld.
<b>KTBS</b> 1450 1000 Shreveport, La.	<b>KWEW</b> 1500 100 Hobbs, N. Mex.	<b>VONF</b> 1195 500 St. John's, Nfld.
<b>KTEM</b> 1370 250 Temple, Texas	<b>KWG</b> 1200 100 Stockton, Calif.	<b>VOWR</b> 681 500 St. John's, Nfld.
<b>KTFI</b> 1240 1000 Twin Falls, Idaho	<b>KWJB</b> 1210 100 Globe, Ariz.	<b>WAAB</b> 1410 500 Boston, Mass.
	<b>KWJJ</b> 1040 500 Portland, Ore.	

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WAAF</b> 920 Chicago, Ill.	1000	<b>WBBZ</b> 1200 Ponca City, Okla.	100	<b>WCBD</b> 1080 Chicago, Ill.	5000
<b>WAAT</b> 940 Jersey City, N. J.	500	<b>WBCM</b> 1410 Bay City, Mich.	500	<b>WCBM</b> 1370 Baltimore, Md.	100
<b>WAAW</b> 660 Omaha, Neb.	500	<b>WBEN</b> 900 Buffalo, N. Y.	1000	<b>WCBS</b> 1420 Springfield, Ill.	100
<b>WABC</b> 860 New York, N. Y.	50000	<b>WBEO</b> 1310 Marquette, Mich.	100	<b>WCCO</b> 810 Minneapolis, Minn.	50000
<b>WABI</b> 1200 Bangor, Maine	100	<b>WBHP</b> 1200 Huntsville, Ala.	100	<b>WCFL</b> 970 Chicago, Ill.	5000
<b>WABY</b> 1370 Albany, N. Y.	100	<b>WBIG</b> 1440 Greensboro, N. C.	1000	<b>WCHS</b> 580 Charleston, W. Va.	500
<b>WACO</b> 1420 Waco, Texas	100	<b>WBIL</b> 1100 New York, N. Y.	5000	<b>WCHV</b> 1420 Charlottesville, Va.	100
<b>WADC</b> 1320 Akron, Ohio	1000	<b>WBLK</b> 1370 Clarksburg, W. Va.	100	<b>WCKY</b> 1490 Covington, Ky.	10000
<b>WAGA</b> 1450 Atlanta, Ga.	500	<b>WBLY</b> 1210 Lima, Ohio	100	<b>WCLE</b> 610 Cleveland, Ohio	500
<b>WAGF</b> 1370 Dothan, Ala.	250	<b>WBNO</b> 1200 New Orleans, La.	100	<b>WCLO</b> 1200 Janesville, Wis.	100
<b>WAGM</b> 1420 Presque Isle, Me.	100	<b>WBNS</b> 1430 Columbus, Ohio	1000	<b>WCLS</b> 1310 Joliet, Ill.	100
<b>WAIM</b> 1200 Anderson, S. C.	100	<b>WBX</b> 1350 New York, N. Y.	1000	<b>WCMI</b> 1310 Ashland, Ky.	100
<b>WAIR</b> 1250 Winston-Salem, N. C.	250	<b>WBNY</b> 1370 Buffalo, N. Y.	100	<b>WCNW</b> 1500 Brooklyn, N. Y.	100
<b>WALA</b> 1380 Mobile, Ala.	500	<b>WBOQ</b> 860 New York, N. Y.	50000	<b>WCOA</b> 1340 Pensacola, Fla.	500
<b>WALR</b> 1210 Zanesville, Ohio	100	<b>WBOW</b> 1310 Terre Haute, Ind.	100	<b>WCOC</b> 880 Meridian, Miss.	500
<b>WAML</b> 1310 Laurel, Miss.	100	<b>WBRB</b> 1210 Red Bank, N. J.	100	<b>WCOL</b> 1210 Columbus, Ohio	100
<b>WAPI</b> 1140 Birmingham, Ala.	5000	<b>WBRC</b> 930 Birmingham, Ala.	1000	<b>WCOP</b> 1120 Boston, Mass.	500
<b>WAPO</b> 1420 Chattanooga, Tenn.	100	<b>WBRE</b> 1310 Wilkes-Barre, Pa.	100	<b>WCPO</b> 1200 Cincinnati, Ohio	100
<b>WARD</b> 1400 Brooklyn, N. Y.	500	<b>WBRK</b> 1310 Pittsfield, Mass.	100	<b>WCRW</b> 1210 Chicago, Ill.	100
<b>WASH</b> 1270 Grand Rapids, Mich.	500	<b>WBRY</b> 1530 Waterbury, Conn.	1000	<b>WCSC</b> 1360 Charleston, S. C.	500
<b>WATL</b> 1370 Atlanta, Ga.	100	<b>WBT</b> 1080 Charlotte, N. C.	50000	<b>WCSE</b> 940 Portland, Me.	1000
<b>WATR</b> 1190 Waterbury, Conn.	100	<b>WBTM</b> 1370 Danville, Va.	100	<b>WDAA</b> 1220 Tampa, Fla.	1000
<b>WAVE</b> 940 Louisville, Ky.	1000	<b>WBZ</b> 990 Boston, Mass.	50000	<b>WDAF</b> 610 Kansas City, Mo.	1000
<b>WAWZ</b> 1350 Zarephath, N. J.	500	<b>WBZA</b> 990 Springfield, Mass.	1000	<b>WDAH</b> 1310 El Paso, Texas	100
<b>WAYX</b> 1200 Waycross, Ga.	100	<b>WCAD</b> 1220 Canton, N. Y.	500	<b>WDAS</b> 1370 Philadelphia, Pa.	100
<b>WAZL</b> 1420 Hazleton, Pa.	100	<b>WCAE</b> 1220 Pittsburgh, Pa.	1000	<b>WDAY</b> 940 Fargo, N. Dak.	1000
<b>WBAA</b> 890 West Lafayette, Ind.	500	<b>WCAL</b> 1250 Northfield, Minn.	1000	<b>WDBJ</b> 930 Roanoke, Va.	1000
<b>WBAL</b> 760 Baltimore, Md.	2500	<b>WCAM</b> 1280 Camden, N. J.	500	<b>WDBO</b> 580 Orlando, Fla.	1000
<b>WBAL</b> 1060 Baltimore, Md.	10000	<b>WCAO</b> 600 Baltimore, Md.	500	<b>WDEL</b> 1120 Wilmington, Del.	250
<b>WBAP</b> 800 Fort Worth, Texas	50000	<b>WCAP</b> 1280 Asbury Park, N. J.	500	<b>WDEV</b> 550 Waterbury, Vt.	500
<b>WBAX</b> 1210 Wilkes-Barre, Pa.	100	<b>WCAT</b> 1200 Rapid City, S. Dak.	100	<b>WDGY</b> 1180 Minneapolis, Minn.	1000
<b>WBBC</b> 1400 Brooklyn, N. Y.	500	<b>WCAU</b> 1170 Philadelphia, Pa.	50000	<b>WDNC</b> 1500 Durham, N. C.	100
<b>WBBL</b> 1210 Richmond, Va.	100	<b>WCAX</b> 1200 Burlington, Vt.	100	<b>WDDO</b> 1280 Chattanooga, Tenn.	1000
<b>WBBM</b> 770 Chicago, Ill.	50000	<b>WCZ</b> 1070 Carthage, Ill.	100	<b>WDRG</b> 1330 Hartford, Conn.	1000
<b>WBBR</b> 1300 Brooklyn, N. Y.	1000	<b>WCBA</b> 1440 Allentown, Pa.	500	<b>WDSM</b> 1200 Superior, Wis.	100

## NORTH AMERICAN B. C. STATIONS BY CALLS

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

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WICC</b> 600 Bridgeport, Conn.	500	<b>WKAQ</b> 1240 San Juan, P. R.	1000	<b>WMAS</b> 1420 Springfield, Mass.	100
<b>WIL</b> 1200 St. Louis, Mo.	100	<b>WKAR</b> 850 East Lansing, Mich.	1000	<b>WMAZ</b> 1180 Macon, Ga.	1000
<b>WILL</b> 580 Urbana, Ill.	1000	<b>WKAT</b> 1500 Miami Beach, Fla.	100	<b>WMBC</b> 1420 Detroit, Mich.	100
<b>WILM</b> 1420 Wilmington, Del.	100	<b>WKBB</b> 1580 East Dubuque, Ill.	100	<b>WMBD</b> 1440 Peoria, Ill.	1000
<b>WIND</b> 560 Gary, Ind.	1000	<b>WKBH</b> 1380 LaCrosse, Wis.	1000	<b>WMBF</b> 610 Miami, Fla.	1000
<b>WINS</b> 1180 New York, N. Y.	1000	<b>WKBN</b> 570 Youngstown, Ohio	500	<b>WMBG</b> 1350 Richmond, Va.	500
<b>WIOD</b> 610 Miami, Fla.	1000	<b>WKBO</b> 1200 Harrisburg, Pa.	100	<b>WMBH</b> 1420 Joplin, Mo.	100
<b>WIP</b> 610 Philadelphia, Pa.	1000	<b>WKBV</b> 1500 Richmond, Ind.	100	<b>WMBI</b> 1080 Chicago, Ill.	5000
<b>WIRE</b> 1400 Indianapolis, Ind.	1000	<b>WKBW</b> 1480 Buffalo, N. Y.	5000	<b>WMBO</b> 1310 Auburn, N. Y.	100
<b>WIS</b> 560 Columbia, S. C.	1000	<b>WKBZ</b> 1500 Muskegon, Mich.	100	<b>WMBQ</b> 1500 Brooklyn, N. Y.	100
<b>WISN</b> 1120 Milwaukee, Wis.	250	<b>WKEU</b> 1590 Griffin, Ga.	100	<b>WMBR</b> 1370 Jacksonville, Fla.	100
<b>WJAC</b> 1310 Johnstown, Pa.	100	<b>WKOK</b> 1210 Sunbury, Pa.	100	<b>WMSB</b> 1420 Uniontown, Pa.	250
<b>WJAG</b> 1060 Norfolk, Neb.	1000	<b>WKRC</b> 550 Cincinnati, Ohio	1000	<b>WMC</b> 780 Memphis, Tenn.	1000
<b>WJAR</b> 890 Providence, R. I.	1000	<b>WKST</b> 1250 New Castle, Pa.	250	<b>WMCA</b> 570 New York, N. Y.	1000
<b>WJAS</b> 1290 Pittsburgh, Pa.	1000	<b>WKY</b> 900 Oklahoma City, Okla.	1000	<b>WMEX</b> 1500 Boston, Mass.	100
<b>WJAX</b> 900 Jacksonville, Fla.	1000	<b>WKZO</b> 590 Kalamazoo, Mich.	1000	<b>WMFD</b> 1370 Wilmington, N. C.	100
<b>WJBC</b> 1200 Bloomington, Ill.	100	<b>WLAC</b> 1470 Nashville, Tenn.	5000	<b>WMFF</b> 1310 Plattsburg, N. Y.	100
<b>WJBK</b> 1500 Detroit, Mich.	100	<b>WLAK</b> 1310 Lakeland, Fla.	100	<b>WMFG</b> 1210 Hibbing, Minn.	100
<b>WJBL</b> 1200 Decatur, Ill.	100	<b>WLAP</b> 1420 Lexington, Ky.	100	<b>WMFJ</b> 1420 Daytona Beach, Fla.	100
<b>WJBO</b> 1120 Baton Rouge, La.	500	<b>WLAW</b> 680 Lawrence, Mass.	1000	<b>WMFO</b> 1370 Decatur, Ala.	100
<b>WJBW</b> 1200 New Orleans, La.	100	<b>WLB</b> 1250 Minneapolis, Minn.	1000	<b>WMFR</b> 1200 High Point, N. C.	100
<b>WJBY</b> 1210 Gadsden, Ala.	100	<b>WLBC</b> 1310 Muncie, Ind.	100	<b>WMIN</b> 1370 St. Paul, Minn.	100
<b>WJDX</b> 1270 Jackson, Miss.	1000	<b>WLBL</b> 900 Stevens Point, Wis.	5000	<b>WMMN</b> 890 Fairmont, W. Va.	500
<b>WJEJ</b> 1210 Hagerstown, Md.	50	<b>WLBZ</b> 620 Bangor, Me.	500	<b>WMPC</b> 1200 Lapeer, Mich.	100
<b>WJIM</b> 1210 Lansing, Mich.	100	<b>WLEU</b> 1420 Erie, Pa.	100	<b>WMPS</b> 1430 Memphis, Tenn.	500
<b>WJJD</b> 1130 Chicago, Ill.	20000	<b>WLLH</b> 1370 Lawrence, Mass.	100	<b>WMSD</b> 1420 Sheffield, Ala.	100
<b>WJMS</b> 1420 Ironwood, Mich.	100	<b>WLLH</b> 1370 Lowell, Mass.	100	<b>WMT</b> 600 Cedar Rapids, Iowa	1000
<b>WJNO</b> 1200 W. Palm Beach, Fla.	100	<b>WLMU</b> 1210 Middlesboro, Ky.	100	<b>WNAC</b> 1230 Boston, Mass.	1000
<b>WJR</b> 750 Detroit, Mich.	50000	<b>WLNH</b> 1310 Laconia, N. H.	100	<b>WNAD</b> 1010 Norman, Okla.	1000
<b>WJRD</b> 1200 Tuscaloosa, Ala.	250	<b>WLS</b> 870 Chicago, Ill.	50000	<b>WNAX</b> 570 Yankton, S. D.	1000
<b>WJSV</b> 1460 Washington, D. C.	10000	<b>WLTH</b> 1400 Brooklyn, N. Y.	500	<b>WNBC</b> 1380 New Britain, Conn.	250
<b>WJTN</b> 1210 Jamestown, N. Y.	100	<b>WLVA</b> 1200 Lynchburg, Va.	100	<b>WNBK</b> 1500 Binghamton, N. Y.	100
<b>WJW</b> 1210 Akron, Ohio	100	<b>WLW</b> 700 Cincinnati, Ohio	500000	<b>WNBH</b> 1310 New Bedford, Mass.	100
<b>WJZ</b> 760 New York, N. Y.	50000	<b>WMAL</b> 630 Washington, D. C.	250	<b>WNBX</b> 1260 Springfield, Vt.	500
		<b>WMAQ</b> 670 Chicago, Ill.	50000		



## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WNBZ</b> 1290 100 Saranac Lake, N. Y.	<b>WPTF</b> 680 5000 Raleigh, N. C.	<b>WSFA</b> 1410 500 Montgomery, Ala.
<b>WNEL</b> 1290 1000 San Juan, P. R.	<b>WQAM</b> 560 1000 Miami, Fla.	<b>WSGN</b> 1310 100 Birmingham, Ala.
<b>WNEW</b> 1250 1000 New York, N. Y.	<b>WQAN</b> 880 500 Scranton, Pa.	<b>WSIX</b> 1210 100 Nashville, Tenn.
<b>WNLC</b> 1500 100 New London, Conn.	<b>WQBC</b> 1360 1000 Vicksburg, Miss.	<b>WSJS</b> 1310 100 Winston-Salem, N. C.
<b>WNNY</b> 1420 100 Watertown, N. Y.	<b>WQDM</b> 1390 1000 St. Albans, Vt.	<b>WSM</b> 650 50000 Nashville, Tenn.
<b>WNOX</b> 1019 1000 Knoxville, Tenn.	<b>WQXR</b> 1550 1000 New York, N. Y.	<b>WSMB</b> 1320 1000 New Orleans, La.
<b>WNYC</b> 810 1000 New York, N. Y.	<b>WRAC</b> 1370 100 Williamsport, Pa.	<b>WSMK</b> 1380 200 Dayton, Ohio
<b>WOAI</b> 1190 50000 San Antonio, Texas	<b>WRAW</b> 1310 100 Reading, Pa.	<b>WSNJ</b> 1210 100 Bridgeton, N. J.
<b>WOC</b> 1370 100 Davenport, Iowa	<b>WRAX</b> 920 1000 Philadelphia, Pa.	<b>WSOC</b> 1210 100 Charlotte, N. C.
<b>WOI</b> 640 5000 Ames, Iowa	<b>WRBL</b> 1200 100 Columbus, Ga.	<b>WSPA</b> 920 1000 Spartanburg, S. C.
<b>WOKO</b> 1430 500 Albany, N. Y.	<b>WRC</b> 950 1000 Washington, D. C.	<b>WSPD</b> 1340 1000 Toledo, Ohio
<b>WOL</b> 1310 1000 Washington, D. C.	<b>WRDO</b> 1370 100 Augusta, Me.	<b>WSPR</b> 1140 500 Springfield, Mass.
<b>WOLS</b> 1200 100 Florence, S. C.	<b>WRDW</b> 1500 100 Augusta, Ga.	<b>WSUI</b> 880 500 Iowa City, Iowa
<b>WOMI</b> 1500 100 Owensboro, Ky.	<b>WREC</b> 600 1000 Memphis, Tenn.	<b>WSUN</b> 620 1000 St. Petersburg, Fla.
<b>WOMT</b> 1210 100 Manitowoc, Wis.	<b>WREN</b> 1220 1000 Lawrence, Kans.	<b>WSVA</b> 550 500 Harrisonburg, Va.
<b>WOOD</b> 1270 500 Grand Rapids, Mich.	<b>WRGA</b> 1500 100 Rome, Ga.	<b>WSVS</b> 1370 50 Buffalo, N. Y.
<b>WOPI</b> 1500 100 Bristol, Tenn.	<b>WRJN</b> 1370 100 Racine, Wis.	<b>WSYB</b> 1500 100 Rutland, Vt.
<b>WOR</b> 710 50000 Newark, N. J.	<b>WRNL</b> 880 500 Richmond, Va.	<b>WSYR</b> 570 1000 Syracuse, N. Y.
<b>WORC</b> 1280 500 Worcester, Mass.	<b>WROK</b> 1410 500 Rockford, Ill.	<b>WTAD</b> 900 1000 Quincy, Ill.
<b>WORK</b> 1320 1000 York, Pa.	<b>WROL</b> 1310 100 Knoxville, Tenn.	<b>WTAG</b> 580 1000 Worcester, Mass.
<b>WORL</b> 920 500 Boston, Mass.	<b>WRR</b> 1280 500 Dallas, Texas	<b>WTAL</b> 1310 100 Tallahassee, Fla.
<b>WOSU</b> 570 750 Columbus, Ohio	<b>WRTD</b> 1500 100 Richmond, Va.	<b>WTAM</b> 1070 50000 Cleveland, Ohio
<b>WOV</b> 1130 1000 New York, N. Y.	<b>WRUF</b> 830 5000 Gainesville, Fla.	<b>WTAQ</b> 1338 1000 Green Bay, Wis.
<b>WOW</b> 590 1000 Omaha, Neb.	<b>WRVA</b> 1110 5000 Richmond, Va.	<b>WTAR</b> 780 1000 Norfolk, Va.
<b>WOWO</b> 1160 10000 Fort Wayne, Ind.	<b>WSAI</b> 1330 1000 Cincinnati, Ohio	<b>WTAW</b> 1120 500 College Station, Tex.
<b>WPAD</b> 1420 100 Paducah, Ky.	<b>WSAJ</b> 1310 100 Grove City, Pa.	<b>WTAX</b> 1210 100 Springfield, Ill.
<b>WPAR</b> 1420 100 Parkersburg, W. Va.	<b>WSAL</b> 1200 250 Salisbury, Md.	<b>WTBO</b> 800 250 Cumberland, Md.
<b>WPAX</b> 1210 100 Thomasville, Ga.	<b>WSAN</b> 1440 500 Allentown, Pa.	<b>WTCN</b> 1250 1000 Minneapolis, Minn.
<b>WPAY</b> 1370 100 Portsmouth, Ohio	<b>WSAR</b> 1450 1000 Fall River, Mass.	<b>WTEL</b> 1310 100 Philadelphia, Pa.
<b>WPEN</b> 920 1000 Philadelphia, Pa.	<b>WSAU</b> 1370 100 Wausau, Wis.	<b>WTHT</b> 1200 100 Hartford, Conn.
<b>WPG</b> 1100 5000 Atlantic City, N. J.	<b>WSAY</b> 1210 100 Rochester, N. Y.	<b>WTIC</b> 1040 50000 Hartford, Conn.
<b>WPRA</b> 1370 100 Mayaguez, P. R.	<b>WSAZ</b> 1190 1000 Huntington, W. Va.	<b>WTJS</b> 1310 100 Jackson, Tenn.
<b>WPRO</b> 630 500 Providence, R. I.	<b>WSB</b> 740 50000 Atlanta, Ga.	<b>WTMJ</b> 620 1000 Milwaukee, Wis.
<b>WPRP</b> 1420 100 Ponce, P. R.	<b>WSBC</b> 1210 100 Chicago, Ill.	<b>WTMV</b> 1500 100 East St. Louis, Ill.
	<b>WSBT</b> 1360 500 South Bend, Ind.	

NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WTNJ</b> 1280	500	<b>XEBL</b> 1220	50	<b>XEL</b> 1100	250
Trenton, N. J.		Mazatlan, Sin.		Mexico City, D. F.	
<b>WTOC</b> 1260	1000	<b>XEBO</b> 1310	25	<b>XELA</b> 1240	50
Savannah, Ga.		Irapuato, Guan.		Saltillo, Coah.	
<b>WTOL</b> 1200	100	<b>XEBP</b> 1150	250	<b>XELO</b> 580	10000
Toledo, Ohio		Durango, Dgo.		Tijuana, B. Cfa.	
<b>WTRC</b> 1310	100	<b>XEBS</b> 1340	200	<b>XELZ</b> 1370	100
Elkhart, Ind.		Mexico City, D. F.		Mexico City, D. F.	
<b>WVFW</b> 1400	500	<b>XEBU</b> 1200	50	<b>XEMO</b> 860	5000
Brooklyn, N. Y.		Chihuahua, Chih.		Tijuana, L. C.	
<b>WWAE</b> 1200	100	<b>XEBX</b> 640	250	<b>XEMU</b> 580	250
Hammond, Ind.		Sabinas, Coah.		Piedras Negras, Coah.	
<b>WWJ</b> 920	5000	<b>XEBZ</b> 810	100	<b>XEMX</b> 1280	100
Detroit, Mich.		Mexico City, D. F.		Mexico City, D. F.	
<b>WWL</b> 850	10000	<b>XEC</b> 1150	100	<b>XEN</b> 780	1000
New Orleans, La.		Tijuana, L. C.		Mexico City, D. F.	
<b>WWNC</b> 570	1000	<b>XECZ</b> 1370	100	<b>XENC</b> 860	50
Asheville, N. C.		San Luis Potosi, S.I.P.		Mexico City, D. F.	
<b>WWRL</b> 1500	100	<b>XED</b> 1160	2500	<b>XENT</b> 910	150000
Woodside, N. Y.		Guadalajara, Jal.		Nuevo Laredo, Tams.	
<b>WWSW</b> 1500	100	<b>XEDA</b> 1220	200	<b>XEOJ</b> .....	.....
Pittsburgh, Pa.		Gral. Anaya, D. F.		<b>XEOK</b> 760	2500
<b>WWVA</b> 1160	5000	<b>XEDF</b> 810	100	Tijuana, L. C.	
Wheeling, W. Va.		Nuevo Laredo, Tams.		<b>XEP</b> 1160	500
<b>WXYZ</b> 1240	1000	<b>XEDH</b> 1340	200	Juarez, Chih.	
Detroit, Mich.		Villa Acuna, Coah.		<b>XEPN</b> 730	100000
<b>W3XDD</b> .....	50000	<b>XEDP</b> 1080	500	Piedras Negras, Coah.	
Whippany, N. J.		Mexico City, D. F.		<b>XERA</b> 840	250000
<b>W3XJ</b> 1060	100	<b>XEDW</b> 1150	20	Villa Acuna, Coah.	
College Park, Md.		Minatitlan, Ver.		<b>XERB</b> 730	100000
<b>W8XO</b> 700	500000	<b>XEE</b> 1210	50	Rosarito Beach, B. Cfa.	
Cincinnati, Ohio		Durango, Dgo.		<b>XES</b> 990	250
<b>XEAA</b> 750	200	<b>XEF</b> 1450	100	Tampico, Tams.	
Mexcall, B. C.		Juarez, Chih.		<b>XET</b> 690	5000
<b>XEAC</b> 980	1000	<b>XEFA</b> 1180	500	Monterrey, N. L.	
Tijuana, L. C.		Tacuba, D. F.		<b>XETB</b> 1310	125
<b>XEAF</b> 990	750	<b>XEFB</b> 870	200	Torreón, Coah.	
Nogales, Son.		Monterrey, N. L.		<b>XETF</b> 1220	12
<b>XEAG</b> 1310	10	<b>XEFC</b> 550	100	Veracruz, Ver.	
Cordoba, Ver.		Merida, Yuc.		<b>XETH</b> 1210	100
<b>XEAI</b> 1250	500	<b>XEFE</b> 980	250	Puebla, Pue.	
Mexico City, D. F.		Nuevo Laredo, Tams.		<b>XEU</b> 1010	250
<b>XEAL</b> 660	1000	<b>XEFI</b> 1440	250	Veracruz, Ver.	
Mexico City, D. F.		Chihuahua, Chih.		<b>XEW</b> 890	50000
<b>XEAM</b> 750	25	<b>XEFM</b> 1160	20	Mexico City, D. F.	
Matamoros, Tams.		Leon, Gto.		<b>XEX</b> 1310	125
<b>XEAO</b> 660	250	<b>XEFO</b> 940	5000	Monterrey, N. L.	
Mexcall, B. C.		Mexico City, D. F.		<b>XEXB</b> 1270	250
<b>XEAP</b> 1340	50	<b>XEFQ</b> 1010	50	Jalapa, Ver.	
Obregon, Son.		Cananea, Son.		<b>XEXD</b> 1340	350
<b>XEAS</b> 1160	100	<b>XEFV</b> 1210	100	Jalapa, Ver.	
Saltillo, Coah.		Juarez, Chih.		<b>XEXE</b> 1270	17
<b>XEAT</b> 1210	250	<b>XEFW</b> 1310	300	Texcoco, D. F.	
Parral, Chih.		Tampico, Tams.		<b>XEXH</b> 1250	250
<b>XEAU</b> 1320	.....	<b>XEG</b> 1230	250	San Luis Potosi, S.I.P.	
Tijuana, B. Cfa.		Monterrey, N. L.		<b>XEXM</b> 610	500
<b>XEAW</b> 960	100000	<b>XEH</b> 720	250	Mexico City, D. F.	
Reynosa, Tams.		Monterrey, N. L.		<b>XEXS</b> 1310	100
<b>XEB</b> 1030	10000	<b>XEI</b> 1370	125	Mexico City, D. F.	
Mexico City, D. F.		Morella, Mich.		<b>XEXX</b> 1170	1000
<b>XEBA</b> 1080	20	<b>XEJ</b> 1020	1000	Mexico City, D. F.	
Guzman, Jal.		Juarez, Chih.		<b>XEYO</b> 610	500
<b>XEBG</b> 820	1000	<b>XEJP</b> 1130	100	Mexico City, D. F.	
Tijuana, B. Cfa.		Mexico City, D. F.		<b>XEZ</b> 630	500
<b>XEBH</b> 930	500	<b>XEJW</b> 870	500	Merida, Yuc.	
Hermosillo, Sonora		Mexico City, D. F.		<b>ZNS</b> 540	400
<b>XEBI</b> 1000	25	<b>XEK</b> 890	100	Nassau, Bahamas	
Aguascalientes, Aga.		Mexico City, D. F.		<b>YSS</b> 640	500
<b>XEBK</b> 1080	100	<b>XEKL</b> 1240	500	San Salvador, E. S.	
Neuvo Laredo, Tams.		Leon, Guan.			

# 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 KFJR, 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.

EST 24-hr. Clock	EST	CST	MST	PST	GMT
0000	Midn't	11 pm	10 pm	9 pm	0500
0100	1 am	Midn't	11 pm	10 pm	0600
0200	2 am	1 am	Midn't	11 pm	0700
0300	3 am	2 am	1 am	Midn't	0800
0400	4 am	3 am	2 am	1 am	0900
0500	5 am	4 am	3 am	2 am	1000
0600	6 am	5 am	4 am	3 am	1100
0700	7 am	6 am	5 am	4 am	1200
0800	8 am	7 am	6 am	5 am	1300
0900	9 am	8 am	7 am	6 am	1400
1000	10 am	9 am	8 am	7 am	1500
1100	11 am	10 am	9 am	8 am	1600
1200	Noon	11 am	10 am	9 am	1700
1300	1 pm	Noon	11 am	10 am	1800
1400	2 pm	1 pm	Noon	11 am	1900
1500	3 pm	2 pm	1 pm	Noon	2000
1600	4 pm	3 pm	2 pm	1 pm	2100
1700	5 pm	4 pm	3 pm	2 pm	2200
1800	6 pm	5 pm	4 pm	3 pm	2300
1900	7 pm	6 pm	5 pm	4 pm	2400
2000	8 pm	7 pm	6 pm	5 pm	0100
2100	9 pm	8 pm	7 pm	6 pm	0200
2200	10 pm	9 pm	8 pm	7 pm	0300
2300	11 pm	10 pm	9 pm	8 pm	0400
2400	Midn't	11 pm	10 pm	9 pm	0500

For times throughout the entire world consult the 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.

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| <input type="checkbox"/> One year's subscription to RADEX, 10 issues ..... | \$1.75 |
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