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*Matthew C. Leshmet*

THE JANUARY 1938

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# RADIO IN INDEX

The All-wave Radio Log



The Shortest Shortwaves  
The Daily Programs  
Broadcasting Stations of Oceania  
Programs of the Week

No. 115

**JANUARY 1, 1938**



# RADIO INDEX



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FOURTEENTH YEAR

NUMBER 115

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# What is a Continent?

SOME people DX solely for the enjoyment they derive from hearing stations in far away places, but most DXers get most of their pleasure out of building up their logs, adding up stations heard, countries heard and continents heard.

Nearly all DXers strive to obtain a verification from each continent, and after all continents are confirmed, they aim to see how many more times they can do it. Then they start keeping score, saying they have 2VAC, 6VAC or 50VAC, whatever the case may be, meaning of course that they have verified all continents two times, or six times, or fifty times.

As long as the stations one hears are in countries like France or Egypt, Argentina, China or Australia, there is no difficulty in placing the countries on the proper continent, but when one begins to log stations in Bermuda, Martinique, Sumatra, Hawaii or Pitcairn, then one begins to wonder in which continental area these islands should be counted.

In an attempt to place the boundaries of the continents, we have consulted all the references available, and have found that even geographers are in doubt about the proper placing of some of the land areas. They all agree that the Philippines and Hawaii are to be included in Oceania, however, and most of them consider the West Indies as a part of North America.

The observations following outline the most generally recognized boundaries and can be accepted by DXers as a guide.

According to Funk and Wagnalls, the land of the globe is sometimes divided into two continents, the east-

ern and western; sometimes into four, Africa, Asia and Europe being separately enumerated; more commonly into five, Australia being reckoned as one; still oftener into six, North America and South America being counted separately; and since 1909, the land about the South Pole as another, the Antarctic, Austral or seventh continent.

It is common practice among DXers to count six continents, as no radio stations exist at the present time in Antarctica. The six continents are North America, South America, Europe, Africa, Asia and Oceania. All the land surfaces in the world (except the South Polar Regions) can be included in these six continents.

North America is bounded on the north by the Arctic Regions. From the North Pole, the boundary passes through the Greenland Sea to a point between Greenland and Jan Mayen Island, then through Denmark Strait and into the Atlantic Ocean. A straight line drawn from Denmark Strait to Georgetown, British Guiana, will determine the eastern boundary of the continent. The southern boundary passes between Venezuela and Trinidad, through the Caribbean Sea parallel to the coast of South America, but north of the Dutch islands off the Venezuelan coast, to the Gulf of Darien. The Panama-Colombia frontier is considered as the southern terminus of the continent. From that point a line can be drawn to the intersection of the Equator and the 135th parallel, then from that point to the westerly tip of the Aleutian Islands. The first line will pass to the south of Cocos and Clipperton Islands, but north of the Galapagos. The second line

will pass to the east of the Hawaiians. Then from Attu, which is the most westerly of the Aleutians, the boundary can be considered as following the International Date Line, to the North Pole. It should be noted that the Date Line curves in the Arctic Ocean so that Wrangell Island is included in North America.

It will be noticed that all the West Indies, including the Bahamas, Bermuda, the Greater Antilles, the Leewards and the Windwards, as well as Central America, are considered as parts of the North American Continent.

South America is bounded on the north by the Caribbean Sea, including the Netherland West Indies (Aruba, Curacao, Buen Ayre, La Tortuga and Margarita Islands). The western boundary can be considered as starting at the Panama-Colombia frontier, to the intersection of the Equator and the 120th parallel, then along the 120th degree of longitude, south from the Equator to the Antarctic Ocean. The Galapagos, Rapanui (Easter), Sala y Gomez and intervening islands are included in South America. The eastern boundary, from the Venezuelan coast, extends into the Atlantic Ocean towards Sierra Leone in Africa, but only to about 20 degrees west longitude, then south along the 20th parallel to the Antarctic Ocean. This will include the islands of St. Paul and Trinidad (both owned by Brazil), the Falklands, South Georgia, the Sandwich Group and the South Shetlands.

Europe is bounded on the west by the Greenland Sea, Denmark Strait and the Atlantic Ocean, including Iceland, Spitzbergen, Jan Mayen, and the Azores. The southern limit of Europe extends from a point south of the Azores, through the Straits of Gibraltar, into the Mediterranean Sea and along the coast



*Joan Tetzel and Eddie Wragge, just graduated from the NBC's Children's Hour, are now featured players in the weekly series, True Story Court of Human Relations, heard over the Red Network every Friday night.*

of Africa, and includes Sicily, Malta, and Crete. The eastern boundary, from the Arctic regions, passes through Kara Sea, Kara Bay, along the Obdorsk Mountains, the Ural Mountains, and the Mugoiar Hills, to the Caspian Sea. Then along the Caucasus Mountains, through the Black Sea, the Bosphorus, the Sea of Marmora, the Dardanelles, through Aegean Sea to a point east and south of Crete. The Islands of Rodi (Italian) and Cyprus (British) are not included in Europe.

Africa is bounded on the north by the Mediterranean Sea, on the west by the Atlantic Ocean, and includes the Madeiras, the Canaries, the Cape Verdes, Ascension, St. Helena, Tristan da Cunha and Gough Island. The eastern boundary passes through the Suez Canal, the Gulf of Suez, the Red Sea, the Gulf of Aden, west of Socotra Island, and east of the Seychelles, Madagascar,

Mauritius and Rodriguez Islands.

Asia is bounded on the west by Europe and Africa, including the Transcaucasian States, Anatolia, Rodi, Cyprus, the Sinai Peninsula and Socotra Island. The southern limit is in the Indian Ocean, and includes the Laccadive and Maldiv Islands and the Bay of Bengal, including the Nicobars and Andamans. The eastern boundary follows the International Date Line, the Japanese coast, to a point between Taiwan and the Philippines, then through the South China Sea to Singapore. From Singapore it goes through the Malacca Strait to the Bay of Bengal.

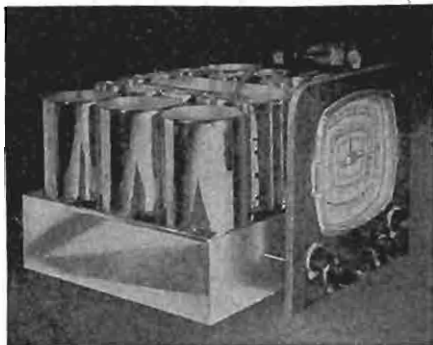
Oceania is a term used by geographers to include Australia, New Zealand and the Islands of the South Pacific. Its divisions are Malaysia, with the Philippines; Australia with Tasmania; New Zealand; Melanesia (New Guinea, New Britain, New Ireland, Admiralty, Solomons, New Hebrides, Santa Cruz, Fiji, Loyalties, New Caledonia); Micronesia (Ladrones); Pelew and Carolines, with Marshall and Gilbert groups; and Polynesia (Samoa, Tonga, Cook, Tahiti, Marquesas, Ellice, Hawaii); and all intervening clusters.

CTIAA Lisbon, Portugal, is now announcing as CS2WA.

A trial membership of 13 weeks in the Globe Circlers' DX Club is now available for only fifty cents, and on its expiration this subscription can be extended for a full year for only \$1.00. The offer is open only to new members. For full particulars address Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y.

The Universal Radio DX Club, 2018 Green St., San Francisco, Calif., announces that dues are \$1.25 per year for the URDXC alone, or a combined membership is available at \$1.60 in the URDXC and the Quixote Radio Club.

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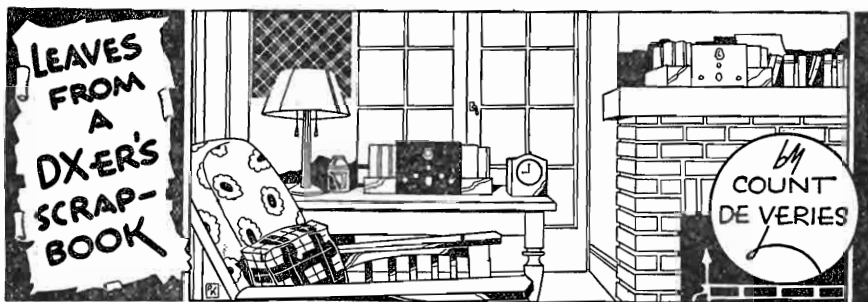
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**SALONS IN NEW YORK, CHICAGO, LOS ANGELES**



**A**FTER several weeks of uncertain reception, the new DX season finally got going the latter part of October, and the month of November found it in full swing. Static gradually diminished in intensity and, on occasions, even became a negligible factor for the listeners. Signals showed favorable increases in strength and many distant stations pounded through with a potent wallop.

DXers who patrolled the midnight air lanes found many new and interesting catches to be logged. Throughout the United States, dozens of newly-authorized stations ran DX programs and equipment tests. New transmitters in Cuba and Mexico pushed signals through the barrier of domestic broadcasters.

First new catch of the season actually was logged on September 27th, when KPFA, Helena, Mont., showed its face on 1210 keys. A few days later, October 4th, the 1200 channel gave up the second new station of the infant season—KELO at Sioux Falls, S. D. October 11th found the new KOAM of Pittsburg, Kans., using its kilowatt of power to advantage on 790.

From then on, the early morning hours provided a happy hunting ground for those who cared to tune. From out of the West came a procession which included KHUB,

KELA, KSRO and KTMS, with visits also from KBST, KOKO, KHBG and KAWM. The Middle West was well represented on the log by KRMC, KELO, WGRM, KATE and KSAL. Nearer home, WKAT, WRNL, WAGA, WRTD, WMBS, and WPRA showed to advantage.

Among the Spanish-speaking countries, there appeared to be pronounced activity. Throughout the Middle Atlantic states, a new Cuban caused consternation by parking on 710 and gumming up the WOR programs. Finally identified as CMBL at Havana, the station showed a real sock. Another Cuban causing interference was CMCM, which had a real battle with WWL on 850.

Down in Mexico, several stations cropped up. XEFW, Tampico, Tamps., was heard several times on 1310 keys. Out in Mexicali, XECL has been using 1700 watts on 1100 keys. XELO, Tijuana, appears to have settled down on 670 and asks that reports be sent to P. O. Box 6, San Diego, Calif. Another Tijuana station is XEOK, which is heard regularly Sunday mornings on 760. After a bit of ear straining, the Mex on 1160 was identified as XEP at Juarez, Chih.

A little farther South, our old friend TGW, Guatemala City, has re-appeared on the radio horizon—this time on approximately 1240 keys.

### Europeans Coming In

November brought its share of freakish reception. The morning of the 12th, for example, had all the earmarks of being pretty poor for DX. West Coasters like KFI and KPO showed barely S4 on the "S Meter" of the Super Skyrider, while KNX was just a degree higher. The smaller stations were hardly audible.

Stopping for a moment on 1040 for a few dance selections from what apparently was KRLD, it was a distinct surprise to hear an announcement in French. After a few selections, the station was identified as Rennes. A check-up on other likely frequencies was not uneventful and, within 45 minutes, seven other Europeans were heard.

From Germany, Stuttgart, Munich and Hamburg showed really excellent strength. Besides Rennes, the French Lille, Bordeaux, Nice and Poste Parisien pushed through signals ranging from S4 to S6. The latter station, incidentally, was heard for the first time in several years, and it was nice to find the channel free of XEAW.

On subsequent mornings, reception of from seven to ten Europeans was repeated, and each time the signals showed to best advantage, it was noticed that West Coast stations were below par.

Conversely, on mornings when the smaller Pacific stations were coming in well, signals from the Antipodes were well received. First Zedder of the new season to be logged was the old reliable 2YA, which hadn't been doing so well since it switched from its former 720 channel. However, the latter part of October found 2YA with a good S5 signal on 570.

As static diminished, 1YA and 3YA were other Zedders to be logged. From Australia, 2NR was easily the best of the TP's, with an S5 signal which occasionally was as

high as S7. 2BL, 2CO and 3LO were also heard with signals running from S4 to S6.

From Hawaii, KHBC lived up to its reputation from last year by showing amazing strength for its 250 watts. KGMB ran a good second, while, except for infrequent bursts of strength, KGU was a very poor third.

### Radio Rambles

Everything considered, it begins to look as though this is going to be a pretty good season. Ballyhoo about sunspots to the contrary, signals from all points of the compass have been showing adequate strength and static has not been excessive.

Just about the only limit to DX possibilities is the local noise level. In many instances a weak carrier will be tuned in and the volume advanced, only to have the barrage of man-made interference act as the real barrier. On most any good night, the DXer finds that static and weak signals are the least of his worries. And, fortunately, the listener in the average residential location is in a position to reduce and sometimes eliminate most of the man-made noise.

Too often, however, the DXer is inclined to do little and bemoan a lot when noise interferes with his dialing. He seems to forget that, despite opinion to the contrary, many power companies are quite willing to assist in tracing sources of racket. He fails to remember that most causes of interference may be remedied when located. And, failing all else, a considerable amount of noise may be abolished by an intelligent installation of a good antenna system.

So, when it becomes apparent that another good season is with us and that the only obstacle to real DX is the local noise level, there is no legitimate reason why reports for the year should not show a great

many fine catches.

### DX Doings

Dialing during October and November finds a number of regular special programs worthy of attention. Every Saturday morning between 3 and 4 a. m., EST, KRLC, 1390, Lewiston, Idaho, has a DX broadcast. WEAU, Eau Claire, Wis., has a monthly program between 5:30 and 6 a. m., EST, on 1050 kcys, on the fourth Friday. WJAG, Norfolk, Neb., 1060 kcys, broadcasts between 1:30 and 2 a. m., EST, on the second Friday.

The first Saturday of each month finds two regular programs on tap. From 2:30 to 3 a. m., EST, KSAL, Salina, Kans., tests on 1500 kcys, while CHWK, Chilliwack, B. C., broadcasts between 2:45 and 4 a. m., EST, the same morning.

Neat targets for DXers are stations which sign on early every morning, and schedules of several of these have been noted. Coming on at 5 a. m., EST are WICC, Bridgeport, Conn., 600 kcys; WEAN, Providence, R. I., 780 kcys; WNAC, Boston, Mass., 1230 kcys; and WHIS, Bluefield, W. Va., 1410 kcys. A half hour later, at 5:30 a. m., WIBX, 1200 kcys, Utica, N. Y., signs on—except during the week of the frequency checks, when they come on at 6:30.

Two new stations whose frequency checks were not listed in the schedule which appeared in the December RADEX, are KSRO, Santa Rosa, Calif., and KHBG, Okmulgee, Okla. The former may be heard on 1310 between 6:20 and 6:40 a. m., EST, on the second Monday, while the latter can be logged on 1210 from 3:10 to 3:30 on the second Friday.

Speaking of the frequency checks, a neat bit of CPC work has been accomplished by NNRC Vice President William H. Applegate. When arranging a special from XECZ, 1370 kcys, San Luis Potosi, Mr. Applegate decided on the period be-

tween 2 and 2:40 a. m., EST, on December 13th. Checking over the schedule of frequency checks, it will be noted that no other station on that channel will be operating at this time—perhaps the only opportunity listeners would have to hear this station.

### Credit Where Due

A couple of issues back, it was proposed in this section that DXers form a new Anti-Hi Society. While intended solely as a sly poke at the listeners who have been apeing the lingo of the amateurs, it appears that at least one DXer took us seriously.

"You have received the CDXR bulletins," writes Charles Hesterman, president. "You counted the 13 'hi's' in Volume 1, No. 23. I would much prefer you to come right out into the open with any adverse criticism of the CDXR bul-



*Fibber McGee, the prince of punsters, the nobleman of nonsense, the tank town tattler of the teeming metropolis of the Midwest, looks out at the world over his glasses and considers what rare philosphic comment he will use on his next NBC-Red Network broadcast. Heard regularly with Molly at 9 pm, EST, on Mondays.*



letin. If the numerous 'hi's' cause you great displeasure, I advise that you consign all future copies of the CDXR bulletin immediately to the incinerator. Then you will not be offended by my childish and ridiculous habits. . . . In the future, please publish outright the name of an offending bulletin. Don't think that I will rant and rave if it transpires that it is the CDXR. In any case, I don't think for one moment that my numerous 'hi's' are as detrimental to the good of DX as are those 'monitored' veries."

Correct is CDXR President Hesterman in his deduction concerning the identity of "The Bulletin of 13 Hi's." But had his bulletins been disposed of as suggested, it now would be impossible to refer back to them and give credit where due.

As any reader might determine for himself, the CDXR bulletin of August 5th contained 13 hi's. Production was curtailed for two issues, for on September 5th there were only 11 hi's and on September 22nd but five. A new hi (I mean high) was reached when 22 highs (I mean hi's) appeared on October 7th and a like number on October 23rd. At about this time the November RADEX appeared, with its anti-hi movement. It may be a coincidence that the November 9th bulletin contained but six hi's, or it may be significant.

In either case, however, I did want to get the record straight and give proper credit.

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The March of Time is being transcribed in French in three half-hour recordings for broadcast to listeners in France. The project is under the supervision of Jean Masson, program editor of Radio Luxembourg, in cooperation with Time, Inc.

## The SWL Trading Post

Allyn R. Fisher, 4290 E. 137th St., Cleveland, Ohio (letters).

Ben Follrath, 1419 Pearl St., Alameda, Calif. (exch. correspondence and SWL cards).

Harry G. Forster, Jr., 89 E. Stratford Ave., Lansdowne, Pa., wants to exchange SWL cards and correspondence with any DXer, especially those in Europe, Africa, Asia and Australia.

Gilbert L. Harris, 60 N. Holden St., North Adams, Mass. (SWL cards).

Edward Hughes, 1212 Castlewood Ave., Louisville, Ky. (Correspondence with overseas DXers, especially in Spanish-speaking countries).

Austin M. Rheiner, 500 S. Kolmar Ave., Chicago, Ill. (exch. SWL cards —wants one from each state).

Clyde A. Ritter, 320 Leonard St., Bloomsburg, Pa. (exch. SWL cards).

Jack Siringer, 1451 Lincoln Ave., Lakewood, Ohio, will exchange SWL cards and correspondence with s.w. listeners overseas.

Albert Steinmetz, 125 W. 27th St., Bayonne, N. J., wishes to correspond with Hungarian DXers in any part of the world.

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The Intermountain BCB DX Club, with headquarters at 1404 Sherman Ave., Salt Lake City, announces that membership fees in their organization are 50c per year, and a club bulletin is available, also at 50c per year, or both membership and subscription for 75c per year.

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Yoichi Hiraoka, NBC xylophonist, who is to make a concert appearance at New York's Town Hall November 24, will play the seldom heard and unique Japanese song, Echigo. It was from this song, Hiraoka says, that Puccini took the melody for his celebrated "Madame Butterfly."

# ARE SHORT, Short-wave Bands Worth While?

• • • By B. FRANCIS DASHIELL

**T**HE realm of the newly popular short, short-wave bands is being explored not only with unbounded enthusiasm by radio fans but with great seriousness by scientists. Here the future of short-wave radio will be found. But just now these very short waves, particularly those of less than 5 meters, are purely experimental and at present offer little of a practical nature to the radio listener. In fact, it is impossible to find a receiver that tunes much below 5 meters, except in the scientific, experimental field.

It is the short-wave band, upwards from 5 meters, that holds much promise to the radio fan. Radio sets that tune as high as 60 megacycles are available in the 1938 models, but in the great majority of cases the average moderate-priced all-wave set offered to the public usually tunes to a frequency of approximately 18 megacycles. Some larger sets, which of course are more expensive, include an additional short-wave band that tunes to about 45 megacycles.

## 5 And 10 Meters

Many radio listeners are wondering whether it is worth while to purchase a 1938 receiver that tunes down to 5 and 10 meters. The question is often asked: Is this additional wave band necessary, and has it enough interest to the general public? Practically all of the short-wave radio business of the world is conducted on wave lengths greater than 10 meters; this fact alone properly raises the question of whether a set with an additional short, short-wave band covering 25 to 60 megacycles need be purchased.

The 1938 offering of radio receivers discloses that the more expensive types, those ranging from 9 to 12 tubes, and as high as 16 tubes, usually cover, in addition to the broadcast band, the 49, 31, 25, 19 and 13-meter international entertainment bands. Some special custom-built sets go down to 5 meters, and are strictly "all-wave". A large number, however, do not include the 13-meter and additional short, short-wave bands. They do, of course, include the popular 20-meter amateur band. But, in most cases, the useful 10 and 5-meter bands that are becoming so sensational, are left off.

## International Bands

Practically all sets, except those of inexpensive make, cover the very best of the international short-wave bands, as well as the amateur and commercial zones. So, when a 1938 all-wave set is examined, one need not feel that he has been slighted in the matter of normal all-wave reception. Such a set is best for ordinary household and simple DXing purposes. The wave bands that provide best reception on all international transmissions are the 49, 31, 25 and 19-meter regions. Then, too, there are the 160, 80, 40 and 20-meter amateur bands. The foreign bands work best at different times, for it will be noted that several of the more important stations have separate places in all of the international bands, broadcasting simultaneously on all the different frequencies. If reception should be poor in the 15 megacycles band, for instance, it might turn out to be very good in the 12 or 9 megacycle zones. Therefore, when it is impossible to get

London, Berlin, Rome, Prague, etc., on one frequency, it is likely that the station will be heard, loud and clear, on another of its frequencies.

Below 19 meters, and down to 5 meters, many frequencies are available. This fact provides radio with thousands of future channels. But these stations will be crowded closely, and tuning will be sharp and difficult. Even on 10 meters, with a band spread that will throw all the 2,000 kilocycles available over the entire 180 degrees of the dial, tuning is critically sharp and interference unavoidable. The present trend, therefore, is to the so-called "communications receiver", such as amateurs operate with almost exclusively. These sets are designed for very sharp tuning, with some loss of high fidelity of reproduction, and even then stations cannot always be separated sufficiently for clear reception when the band opens up perfectly. In the ordinary all-wave set, the mechanical separation of stations is not so good since the entire group is squeezed into a tiny spot on the dial. This is an engineering fact, and is to be expected; it is not the fault of the receiver.

### 20-Meter Amateurs

This does not mean, however, that the short-wave bands below 20 meters are jammed with stations. In the 20-meter region are many of the better amateur phone stations. Many can be picked up easily on the all-wave set, but not, of course, as easily or in as great a number as with an amateur communications receiver. Here will be found some of the best known radio experimenters of the day, and radio's hams and engineers may be heard discussing scientific matters pertaining to radio.

The 20-meter region, is subject to certain conditions which man cannot control. When the band "opens up" nicely it provides an interesting evening. As a rule this band is in



*A photographic impression of Benny Goodman, who, with his clarinet, leads his orchestra through intricate swing rhythms on his "Swing School" broadcasts each week over the Columbia network.*

action all the time—sometimes better than others. But, if the receiver tunes still lower, down to 13 meters, which is the highest of the international frequencies, still more unstable conditions will be experienced. In this zone, and particularly on the busy 10-meter band, freak reception is a common experience. But when the band opens up, it performs in a way that, to the expert listener, seems little short of miraculous.

### The Erratic 10 Meters

The amateur stations on the 10-meter band can be heard distances that seem unbelievable, considering the tiny bit of energy that is emitted by the transmitter. Just below 10 meters can be heard two-way conversations, such as the newer police calls. The 10-meter zone is one of radio's most remarkable regions. Natural static seldom troubles, but, of course, automobiles and man-

made static play their annoying part. This band, too, is where all-wave receivers may seem to perform at their worst. Often the fault is not in the design of the receiver, but due to the peculiar conditions which control 10-meter transmission and reception.

The 10-meter band is subject to severe "skip distance" effects. Radio stations, although close at hand, can not be heard, while weak stations, several thousand miles distant, may come pounding in like locals. And the skip distances vary in length, for it frequently is impossible to hear the same station again until many nights have passed. More stations are entering the interesting 10-meter band, but patience, even with the best of receivers, is necessary to tune them in. However, an all-wave receiver which tunes down to 10 meters will provide many DX thrills, especially in summer when the longer wave bands are rendered useless with hot-weather static.

### Sun Spots

No one knows when the 10-meter band will open up or close down without warning. A study of sun spots has given us some clue to this strange situation. Just now the sun-spot maximum is approaching, as it does every 11 years, and it is expected that the short, short waves will carry extremely long distances during this winter. Just what will happen when the minimum of sun spots occurs some years hence is open to question, but it is easy to believe that the opposite will happen, and short-wave reception will be poor. Sun spots, which are believed to be violent solar storms with gas explosions and magnetic effects, change our ionosphere or "radio ceiling", and act to improve or retard its reflecting and conducting action. And the short, short waves are easily affected—either helped along or held back.

When we reach the 5-meter band everything is entirely different. Sun spots seem to have little effect. The ionosphere means nothing. And there is little that can be said in favor of adding this band to an all-wave receiver. The circuit must be simple; radio-frequency or pre-selectors are not needed; they hinder rather than help reception on 5 meters. Therefore, unless the receiver is specially built for short waves, 5-meter reception, while possible to some extent, is rather impracticable for the average listener with his moderate all-wave set.



*"Janie" Webb, heard on the Tom Mix Straight Shooters broadcasts over the Blue Chain at 5:45 pm, is interested chiefly in paper dolls, doll furniture and, occasionally, in her school work. Janie firmly states she has no intention of making radio her life work; she thinks she prefers to be a detective.*

### Visual Radio

The 5-meter band is a zone where reception is limited to very short distances. Strange as it may seem, the 10-meter waves (30 megacycles) carry great distances with very little power, but the 5-meter waves (60

megacycles) travel only short distances with much power behind them. They move out in a straight line from the transmitter to the receiver. The limit of reception on 5 meters is visual, that is, the distance the eye can see. If you can see the point of transmission, you can hear the signal without difficulty. The best receivers for the 5-meter band are specially built, small one or two-tube super-regenerative circuits.

Intervening hills or buildings block 5-meter signals. The curvature of the earth causes the transmitted signal to pass into the air, high above the receiving antenna. In some unexplained freak conditions, however, in the present sunspot era, 5-meter signals have traveled far, once across the Atlantic. But the facts as we see them, then, prevent most persons from hearing 5-meter stations unless the receiver is located in a large city where experimental broadcasting and television work is being accomplished or a number of amateurs are using five meters, often in portable units known as "transceivers"—combination transmitters and receivers which are now available at small cost.

---

## Scanning the AMATEUR BANDS

● ● ● *By B. L. Ahman, Jr.*

We have just returned from a trip through North Carolina and Virginia, and during the trip we found that reception does not vary greatly in those states from reception in the east. The Central and South American stations predominate, however, while in the eastern and central states the European amateurs take only a close second to the Latin Americans. Naturally the northeastern states are more favorable for

Europeans because of the nearness of Europe.

Reports of reception this month were far too scarce. This, no doubt, is due to general poor conditions present on 20 meters. The band did break down one night, however, and ZU6P was heard conversing with several USA amateurs. It was heard on the LF end at 11:30 pm EST with R8 signals.

Merton Meade has a good record of African stations for this month, listing nine South Africans in his calls heard.

Art Judson writes that he heard the Greenland station OX2QY for 55 minutes from 8:00 until 8:55 pm one night. Many of our correspondents are hearing this station. Reports of reception should be addressed to W2QY, Mr. A. G. Sayre, Storm King School, Cornwall-on-Hudson, N. Y. They will be acknowledged next fall.

A report to VO6L's home address was acknowledged very nicely by his father from Montreal. QSL cards will be mailed out probably next year, after VO6L gets his mail. He is located at North West River, Labrador.

Dan Hurley of Philadelphia reports a new one, VO3Z in Newfoundland. Incidentally, Dan is now using a homebuilt TRF set. Station VK2ADE, Australia, was noticed in his list of calls heard—nice reception, Dan, on a TRF set!

Gail Beyer of Chicago says we can now add the Central Time Zone to our November listing of PK6CI as he has a QSL from this station.

Three Australasian SWL card traders descended on us in a group in one day. Add the following to those who will exchange SWL cards: Bob Russell, Taupo Road, Taumarunui, N. Z.; James Mildenhall, Byron Bay, NSW, Australia; and C. O. Pepperell, Rahoitu, Taranaki, N. Z.

As usual, Hadley Wilcox of Los Angeles comes through with some news. He adds KA1BH, Manila, heard with R5-7 signals. In the same mail Tony Tarr of Seattle sends along a list, but most interesting is the fact he takes back his statement about not hearing Europeans. At last he heard one, GM5NW, R9 at 2:45 am PST.

Other reporters deserving thanks this month are Arthur Blick, Gilbert Harris, Carroll Weyrich, John Sanderson, Earl Roberts, Wm. Wood, Martin Olthoff, Benjamin Peet, R. Geller, Ed Hughes, Dave Schaller, Dale Smith, Al Steinmetz, the ISWC and the NNRC.

#### Addresses

Commencing this month we will list the call letters, the frequency and the address 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.

KA1BH: Mrs. Joseph Reich, 2 Escolastica, Pasay, Rizal, P. I.

PK6CI: E. R. Illing, Ambon, Netherland East Indies.

VK2ADE: C. A. Miller, 162 North St., Casino, NSW, Australia.

## Pitcairn Isle Radio Station

**A** COLORFUL throw-back to the days of the history-making mutiny of the British frigate "Bounty" is to be found in the life of the natives of lonely, mid-Pacific Pitcairn Island, which is totally inhabited by the descendants of Fletcher Christian, his band of mutineers and their Polynesian wives.

Word has been received from officials of the RCA Manufacturing Company that they were preparing to ship a set of transmitting and receiving radio tubes to Pitcairn

Island for use in modernizing its lone radio station, which is its only direct means of communication with the outside world. The island and its almost fabulous inhabitants were again brought into the international spotlight recently through a motion picture based on "Mutiny on the Bounty".

PITC, the island's only radio station, is in charge of Andrew Young, chief operator, and a group of assistants, all of whom are self taught in Morse code and radio technique. Alan Eurich, writing in the August issue of QST, recounts that even the children of Adamstown, the only village on the isle, are proficient Morse experts, sending messages to each other in the code with whistles.

Young's amateur radio station has been in operation since the early 1920's, and previous to its present modernization operated with one storage battery, which had to be sent to New Zealand, 2500 miles away, to be recharged when its power ran low. But Pitcairn Island has been threatened with even more complete isolation from the outside world because the simple crystal radio receiver and spark transmitter are almost completely outmoded by the modern vacuum tube radio installations on passing ships. However, a number of radio manufacturers, including RCA, are coming to the rescue by providing sufficient parts to permit the building of a complete new radio communications system.

Pitcairn Island is 3,500 miles from the United States, and supports its citizens by producing some of the most luscious fruit in the world, according to those who have passed that way. There is no harbor—the natives row a perilous course in open boats from their rocky shores to trade their fruit for clothing,

*(Please turn to Page 39)*

# Turning OUR READERS' Dials

• • • By CARLETON LORD

**J**UDGING by the comment going the rounds of radio circles, the attention of most DXers is centered upon the matter of "monitored veries." Seldom have readers shown as much interest in something which affects the DX hobby. Hardly a letter is received which does not allude to the question in some way, while many a veteran dial twister has skipped his usual report to make known his opinion of the problem.

Oddly enough, while every DXer has reason to defend a policy which may insure his verification from a given station, a huge majority of listeners are coming forward to condemn the scheme which, for a short time, was so favorably received. Or, upon consideration of the matter, perhaps it is not so odd after all.

For, behind the scenes, it is possible to foresee a situation which might easily upset the entire DX applectart. Even at this early stage, there is evidence of seeming abuses which promise little good for the hobby. If permitted to continue through support and sanction of DXers themselves, there is no telling what the final outcome may be.

When two Baltimore DXers, Carroll Weyrich and B. L. Ahman, Jr., undertook to monitor the Daventry short wave stations, they were performing what they felt was a real service for listeners who desired verifications from these stations. Daventry had flatly refused to issue confirmations of any nature, and there were many DXers who felt that a "proxy verie" was better than none at all.

Previous attempts by listeners to issue confirmations for non-verifying broadcasters had been received



*Annette King, brunette contralto soloist of the NBC Breakfast Club, landed her first job on a small radio station two years ago, and now she is one of NBC's most promising balladists.*

with enthusiasm, and there was no reason to believe that this new service would not enjoy an even greater acceptance.

It just happened, however, that an unfortunate arrangement of the wording on the Daventry cards caused critics to claim that the veries were misleading and invalid. Typical protest is the following excerpts from a resolution passed on July 9th by the Golden Gate Chapter of the International DXers Alliance and forwarded by its secretary, Ashley Walcott:

"The members of the Chapter believe that no card or letter, so worded as to imply or indicate in any way that it is an official verification of reception authorized by

the owners or operators of the station concerned, when no such authorization has actually been given, should be considered a verification of that station.

"It is the belief of the members of the Chapter that the continuance of the practice, although it was reportedly intended as a courtesy to DXers, will have harmful effects upon the future of DXing . . . that various stations of all types or classes will regard the practice as sufficient excuse to discontinue the issuance of officially authorized verifications of reception . . . that, in the estimation of those station owners or operators, whose sense of honor is offended by the issuance of such unauthorized verifications and their acceptance as valid by listeners, DXers and DXing in general will suffer greatly.

"Therefore be it resolved that the Golden Gate Chapter of the IDA expresses its entire and complete disapproval, and requests that immediate measures be taken to end the practices in question."

This resolution, it will be noticed, refers only to monitored veries which are so worded as to imply that they are sanctioned by the stations in question, when actually no authorization had been made. This, of course, is a direct reference to the type of cards which were sent out by Messrs. Ahman and Weyrich.

In fairness to these gentlemen, it is believed that the exact wording of their cards was inspired by a desire to make the veries impressive, rather than a deliberate attempt to be misleading. After all, listeners were perfectly aware that Weyrich and Ahman monitored the Daventry programs, that the reports were checked against the material which was heard by them, and that the veries were issued by them as individuals and not as agents of the B. B. C.

But there is no reference in the resolution to monitored veries which are not worded to imply official sanction by the stations. We have in mind the type of card which we sent out during the 1937 Mystery DX contest. DXers who received these cards will recall that the call and location of the station was filled in above the words: "This is to verify your reception of this Station on February — 1937. Thanks for writing us. THE RADEX PRESS."

This card might be called a "proxy" verie, since the reports were checked against the station log by someone who had no official connection with the broadcasters. Still, there was no pretence that the card was coming from anyone but the Radex Press. Would the resolution of the IDA Golden Gate Chapter denounce this type of verie, even though it made no reference to it?

Granting that the verie which implies authorization which was never received, should not be accepted by DXers, what are we to do about the card which does not imply sanction by the station? Suppose the card merely certifies that a listener's report checks with the program which the monitor has heard. Is there anything wrong with an honest monitoring service which claims to be no more than that?

This question is neatly brought out by Anthony C. Tarr, 909 W. Lee St., Seattle, Wash., who writes:

"When a station announces that it will not verify, is there any reason why a public-spirited individual should not take over the job for those who were unfortunate enough to be left out in the cold? For those who scoff at the authenticity of a confirmation obtained through a monitoring station, may I inquire *just what is a verie?* There is only one reply to that: a verie is a certificate to the effect that a listener



heard a station at a certain time, as evidenced by his report of musical selections, and attested to by someone with knowledge of the correctness of the report. Whether or not this confirmation is supplied by the station is of little moment, because a monitor is in possession of knowledge of what was broadcast and is, therefore, qualified to issue verifications. No one has yet advanced any argument against the authenticity of the veries themselves!"

It is quite true that there has as yet been no question about the authenticity of the veries, and it is assumed that existing monitors have been conscientious in verifying only reports which check with the program they have heard.

But is it "of little moment" whether or not a confirmation is supplied by the station in question. For many DXers, a verification is more than mere proof that a station was heard at a given time. They are souvenirs of long nights spent at the dials, reminders of thrilling catches, of new horizons passed. And, like stamps or coins, they are authentic only when issued by the proper station officials.

Another side of this slant is pounded by Randolph Hunt, Box 715, Leucadia, Calif., who writes: "Suppose we take the case of the California DXer who is monitoring ZBW. This station has sent out many veries in the past and may do so again at some later date. But whether or not they do, it will make no difference to those who have veries. What is going to cause confusion is to have in circulation Victoria ZBW veries and Beverly Hills ZBW veries. The holder of a real verie eventually will buck up against one which is artificial. To promote conditions such as this may not kill DX, but it surely does not aid the honest, conscientious DXer one iota. And I believe that this

monitoring will tend to lower the status of the North American DXers, especially in the opinions of the lads Down Under."

### Verie Clearing House

Moving on from the matter of monitored veries, we come to a situation which is undoubtedly a direct outgrowth of the monitoring idea. At about the time the question first came up for discussion, another verification service came into existence.

As recorded in the December RADEX, the Quixote Radio Club inaugurated a system whereby the club headquarters would accumulate reports for certain Central and South American stations, and then forward the reports in a body to the respective stations. The club announced that it had received the "assurance of some fifteen stations that verification requests *via* the QRC will be instantly honored."

At first glance, this service may appear to be meritorious. If, as was the case with Daventry, the stations had a policy of not verifying at all, it is reasonable to believe that many listeners would be more than pleased to receive confirmations in this manner. Some DXers conceivably would rather have a verie by proxy than no verie, and they probably have availed themselves of this opportunity to stock up.

But it now develops that the stations lined up with the QRC actually are doing their own verifying. They receive the reports gathered by the QRC and send their cards direct to the listeners. So it is apparent that these are not cases where the stations refuse to verify. On the contrary, they send out their own confirmations.

Even so, the system might not be so bad. If a radio club is able to procure verifications for members who otherwise might not be successful, they might be commended for being

right on the job. However, we learn that, prior to this tie-up with QRC, many of these stations were verifying regular reports. They may have been slow, but the veries were forthcoming eventually. Now it appears that the stations concerned will verify only reports sent via QRC.

A number of readers have written in to say that reports addressed to YV2RA were returned by the station, with the request that all reports be sent via the Quixote Radio Club.

(Editor's Note: After this copy was prepared, several interesting letters were received concerning the QRC Dime Veries. The verifications are sent to the reporters direct from the stations. The QRC sends ten cents to the station for each verification requested, and guarantees to refund the dime to the reporter if his verification is not received.)

#### **New Stations Reported**

As the season progresses, many new stations are reported by readers. From all points of the compass, transmitters are coming on the air and changes in existing stations are announced.

From the Postmaster-General's Department at Melbourne, we receive word of five new low-power stations in Australia: 2BE, Bega, N. S. W., 1490 kcys, 100 watts; 2HR, Singleton, N. S. W., 680 kcys, 300 watts; 2KM, Sydney, N. S. W., 980 kcys, 100 watts; 2MW, Murwillumbah, N. S. W., 1470 kcys, 100 watts; and 2XL, Cooma, N. S. W., 880 kcys., 100 watts.

"The New Zealand Government's chain of commercial stations throughout the country is almost completed," advises A. I. Breen, 68 Pine Hill Terrace, Dunedin, N. Z. "3ZB, 100 watts on 1430 kcys, commenced broadcasting on a 6 a. m. to midnight schedule September 28th. 4ZB, Dunedin, 1220 kcys, 1000 watts, began operations on October 5th,

also from 6 a. m. to midnight daily. Effective October 4th, 4ZP, Invercargill, 100 watts, moved from 620 to 680 kcys, to avoid interference from 3AR, which ruined his signal outside his immediate area."

From nearer home, Samuel A. Meyer, Jr., 83 Canterbury Road, Rochester, N. Y., supplies information on Spanish speaking stations. "TIPG in San Jose, C. R., has been heard on 625 kcys," he writes. "It is supposed to use 2000 watts power, and has a short wave relay on 6410 kcys. XEBO, Irapuato, Guan., has moved from 1280 to 1310 kcys; XELO, Tijuana, B. C., from 1110 to 670; and XEFO, Mexico City, from 940 to 930.

"I understand that there is a myriad of flea-power BCB stations in the Dominican Republic and in Honduras. A visitor from the latter country said that Tegucigalpa possessed nearly 20 little stations, some of them being 10-watters. It might be interesting to see a list of them."

Also forwarded by Mr. Meyer was the following clipping from the Laredo (Texas) Times:

"WASHINGTON, Oct. 7.—(AP)—Pan-American tourist traffic over the new International Highway was discussed today at a Communications Commission hearing of an application for a radio station in Laredo.

"M. M. Valentine, Laredo electrical engineer and applicant, told examiner that programs planned for the station included broadcasting Mexican customs, weather and road conditions for the benefit of motoring tourists. He said there was abundant local musical talent, because Laredo's habitants 'are almost wholly of Mexican extraction and nearly all Mexicans are naturally gifted musicians.' He said that the nearest American radio station was in San Antonio, 156 miles North, and that Laredo must now depend largely for its daytime reception

from Mexican stations across the Rio Grande.

"His application is for operation on 1500 kcys, with 100 watts power at night and 250 watts daytime."

While the natural gifts of Mexican musicians are open to question, the plan to furnish information to tourists entering Mexico is indeed a novel idea. And one wonders why this hasn't been considered before.

### Station Changes

"XELO, Tijuana, B. C., Mexico, has been giving a series of test programs on 660 kcys," informs David B. Browne, 550 E. Glenarm St., Pasadena, Calif. "From their announcements, I doubt if they plan a return to 1110. This evidently means the end of XEAO, Mexicali, as they have not been heard for several weeks and I don't believe they've changed frequencies."

Recent reports indicate that XELO is on 670, instead of 660, and they are putting out a potent signal for their power.

"Did WJSV ever get permission to move from Virginia into Maryland and boost their power to 50 KW?" queries a Frederick, Md., reader. "Does WOL, Washington, expect to make that change from 1310 to 1230 and increase power from 100 to 1000 watts? Has W3XJ, College Park, Md., decided on the channel to which they will move from 1060 kcys?"

WJSV is still using 10 KW at its old location at Alexandria, Va. Permission to move and change power has not been granted as yet. WOL expects to make its change in frequency and power boost within the next month. W3XJ is of the nature of a booster station for WBAL, so it is not likely that they will change frequency. We haven't heard that they are contemplating any change.

"KOA's broadcast goes only to 2 a.m., EST, Sunday mornings," avers Kenneth Axelson, 5801 Dor-

chester Ave., Chicago, Ill., "instead of 3 a.m. as previously listed in RADEX. KMBC, Kansas City, broadcasts 19 hours daily, but their time on the air is not specified. WJRD is now verifying reception, and very promptly, too. According to a verification, WBAX hopes to have 250 watts soon. The new station at Hammond, Ind., WHIP, on 1480 kcys, broadcasts from 7:30 a.m. to 5:30 p.m., EST, daily, and from 9 a.m. to 5:30 p.m. on Sundays. They show greater signal strength than any of the five local 50-kilowattlers."

### Radex Dedications

Through the efforts of Raymond W. Sahlbach, 4708 A South Compton St., St. Louis, Mo., a number of stations are dedicating their January frequency check broadcasts to the readers of RADEX. Following is the schedule, with all times AM, Eastern Standard:

	<b>January 6</b>
2:00-2:30	KWOS 1310 Jefferson City, Mo.
	<b>January 8</b>
4:10-4:30	WKBB 1500 Muskegon, Mich.
5:10-5:30	KBTM 1200 Jonesboro, Ark.
5:30-5:50	KFXD 1200 Nampa, Idaho
5:40-6:00	KFJM 1410 Grand Forks, N. D.
	<b>January 10</b>
4:20-4:40	KLUF 1370 Galveston, Texas
4:50-5:10	KEUB 1420 Price, Utah
5:50-6:10	KGLO 1210 Mason City, Iowa
	<b>January 11</b>
3:10-3:30	KPAC 1260 Port Arthur, Texas
4:10-4:30	KLPM 1360 Minot, N. D.
4:20-4:40	KRMD 1310 Shreveport, La.
5:00-5:20	KRMC 1370 Jamestown, N. D.
5:40-6:00	KQV 1380 Pittsburgh, Pa.
5:50-6:10	KLAH 1210 Carlsbad, N. M.
	<b>January 12</b>
3:10-3:30	WPAX 1210 Thomasville, Ga.
4:40-5:00	KPLT 1500 Paris, Texas
5:00-5:20	KFJB 1200 Marshalltown, Iowa
	<b>January 13</b>
2:00-2:30	KWOS 1310 Jefferson City, Mo.
	<b>January 14</b>
4:00-4:20	KIUL 1210 Garden City, Kans.
5:30-5:50	WLBC 1310 Muncie, Ind.

There seems to be a question about the KWOS broadcast on January 13th. Normally, this station is scheduled for 3:40 to 4:00 a. m., EST, on the second Friday, which would be January 14th. However, the time and date are as reported by Mr. Sahlbach and readers needing

this station might do well to try at both times.

Naturally, RADEX is gratified that these stations are making these dedications, and it is hoped that readers will make a point of writing to the stations after the broadcasts. If a verification is not needed, a thank-you card would be in order.

### Why I Verify

"A lot has been written about the question 'Why Verify?'" concedes J. E. Gardner, 1839 E. 79th St., Cleveland, Ohio. "While I have been DXing only about ten months, I have had plenty of experience. I am 67 years old and DXing is a hobby with me—one which I find very instructive, fascinating and inexpensive.

"I do not think I am different from a lot of others who like to have their catches verified. I have a certain pride in showing off the 140 veries which are on my wall, although one guest did think that they were license plates from foreign countries.

"The largest foreign station (England excepted) verify gladly and, as you know, a lot of them ask for reception reports. These stations do not advertise any product, so must get their revenue from other sources. The small stations in Mexico, Cuba, and Central and South America advertise many products and apparently depend upon this income for their support. Of course, it is not expected that a listener in Cleveland is going to buy a Cuban special on Pepsodent or Alka Seltzer, but the chances are that sponsors down there will be impressed by reports from a distance.

"Therefore, when I take the time and trouble to log a station which is advertising Pepsi Cola in Bucamaranga, when I make notes of an hour's broadcast, send out a good report of reception and spend money for a reply coupon, it seems to me

that I am entitled to a verie. As long as the station does not announce that reports will be ignored, they should show the courtesy of a reply merely as a matter of good business.

"I do not hold with the argument that a listener will not tune in on a program once he has received a verie from a certain station. I am glad to tune in on any program, time after time, if it furnishes me with good entertainment. I never fail to get Daventry at 6 p. m. to hear Big Ben strike the hour. PCJ has a good program and I have all their veries on all frequencies, but do not miss it when I think of tuning in on their broadcasts.

"In short, I feel that making notes, sending out a real reception report and enclosing reply coupons should entitle me to a reply. Fortunately, most stations are glad to verify a good report, but we DXers certainly have a kick coming when we cannot raise a reply.

"However, I will continue to try for them and each addition to my collection will bring back memories. My first verie—HJ1ABP—has a place of honor in my collection, and I tune this station frequently for that very reason."

### Luck With Frequency Checks

"I have listened to the frequency check programs a good many times in the last few years," states Alf Raymond, Avon, Ill., "but I never had the pleasure of perfect reception until November 10th. On that morning the schedule showed 12 stations which I had not heard, and I was certainly thrilled when I was able to hear every one of them: KAND, WJNO, WKEU, WHLB, KPLT, WJRD, WEOA, KPDN, WAYX, KRBC, WSAU and KABR."

"I had a good chance to boost my list of stations on the morning of October 11th," recalls Edgar D. Petrie, 1431 Gerrard St. E., Toronto, Ont. "Of the 64 stations which were

on for the monthly frequency checks, I was able to log 47. Of these, fifteen were new to me and increased my total to 665. Perhaps the best catches in my log are KHJ, KHQ, KGIR, CMJK, CMCD, CMCW, CKMO, CMHJ, KIDW, KOY and KTFI, as well as many others. Incidentally, I would be grateful if some reader will send me a circuit for a two-tube, battery-operated short wave set."

"Can't someone arrange a series of special programs from the less-frequently heard Canadian stations?" queries Carl E. Sylvester, Box 213, Yale, Mich. "The only ones which I hear at all regularly are CBW, CFCO and CKLW. Those heard occasionally are CRCT, CFRB, and CKOC. Rarely heard are CBO, CRCM, and CKY, with the latter two not heard since they last changed frequency."

"I am 17 years old and have been DXing for about four years," writes Fred Gilbert, 363 Queen St., St. James, Winnipeg, Man. "On August 1, 1936, I received for a birthday present a 5-tube Dictator mantel set, which tunes from 540 to 1940 kcys. Since that date, I have received 210 amateurs, 43 police and 279 broadcast stations. I have logged stations in 40 states, six provinces of Canada, as well as Mexico, Cuba and Hawaii. Some of my best catches are CMCD, CMCJ, XEAC, XEAF, KHBC and CKWX."

"I am now using an RCA 9K3 receiver with an RCA doublet aerial," informs Kenneth Page, 292 Richmond Ave., Buffalo, N. Y. "The only real distance that I have logged is KHBC, Hilo, Hawaii. They can be heard nearly every morning from 2 until they sign off at 4 a. m., EST. The other two Hawaiian stations, KGU and KGMB, are very poor, being heard only occasionally."

#### **Mystery Station On 650**

"I've been DXing now for a little over six weeks," offers John T.

Crabtree, 203 Santa Fe Ave., Santa Fe, N. M., "and in that time have logged 334 stations on the broadcast band. So far I have received stations in every state but Maine, New Hampshire, Rhode Island and Delaware, as well as several Canadians and Mexicans, 3 Cubans, one in Puerto Rico, all 3 Hawaiians and KFQD, Anchorage, Alaska.

"I am especially proud of this record, as this is without doubt one of the worst DX sections in the country. Our city is situated in a bowl formed by towering mountains, 10,000 feet high, on all sides. Naturally, a lot goes over us, and static is heavy the year round.

"For the past three weeks, I have been hearing an unknown station on 650 kcys. It is not WSM, yet all the announcements are in English. The signal strength is about R3, yet I haven't been able to identify them. Recently I heard an early-morning test from an XEAU at Tijuana, B. Cfa., on 1310 kcys. They were coming in R9, so there was no doubt about the call or location. Do you know about either of these?"

The station on 650 kcys is referred to RADEXers for identification, while the other station is confirmed by J. W. Hansen, 3028 Fairmont Blvd., Riverside, Calif., who writes:

"A new station in Tijuana, XEAU, was heard testing on 1310 kcys early in October. I received a verification from XEAA stating that they have moved permanently from 920 to 750 and are using the same power.

"Reception of the Aussies has been very poor, except for a few nights. The Zedders have been coming in a little better, but nothing to get excited about. The Japs have been very good, with programs heard regularly on 560, 590, 690, 730, 740, 770, 780, 790, 810, 820, 830, 850, 870, 940, and 970. What's happened to XGOA? Haven't heard them yet!"

### Reception Good

"Reception has been very good so far this Fall," notes Arthur E. Foerster, 1213 Bosart Ave., Indianapolis, Ind., "with 40 new stations coming in to bring my log up to 865 logged, with practically all of them verified. The Aussies and Zedders have been missing so far and to date the Europeans have failed to put in an appearance, but I have hopes. Reception from the West Coast is the best I have seen since I began DXing five years ago."

"I have finally managed to raise my total of U. S. stations to well over the 400 mark," writes Walter V. Scholz, 33 N. Maple Ave., Webster Groves, Mo., "accomplishing that with the help of the November 11th frequency checks. My best catch so far is KHBC. While I was DXing this morning (November 11th), I came across a Spanish-speaking station on about 950 keys. I could not catch the call letters, but heard Guatemala mentioned a few times. Could that be TGW on a new frequency?"

Just as we go to press, a letter from Samuel A. Meyer, Jr., of Rochester, N. Y., arrives advising of recent changes in Latin-American stations.

New stations heard are CMBL, 710 kcs, in Havana, Cuba. It is heard nightly from 8 until 11 pm, EST. TIPG in San Jose, Costa Rica, has also been heard on 625 kcs. This station is said to employ 2000 watts power.

XEBO in Irapuato, Gto., has moved from 1280 to 1310 kcs; XELO, Tijuana, B. Cfa., from 1110 to 670 kcs; and XEFO, Mexico City, D. F., from 940 to 930 kcs.

XENT is now using 60,000 watts power. XEBK in Nuevo Laredo, Tams., has decreased power from 100 to 60 watts.

"I am sending two clippings from the *Laredo Times*." Mr. Meyer's let-

ter continues. "One of the clippings is relative to a new station under construction in Monterrey, Nuevo Leon, and the other about a Laredoan's (Texas) application for a 250-watt local station. There are already four stations in Nuevo Laredo, which has only half the population of Laredo, and to date there is no station on the American side. I believe there is to be a station in Ciudad Victoria, Tams., also, but I have no details.

"XEBK of Nuevo Laredo (1000 kcs) has a power of only 60 watts, although it is licensed for 100 watts. XENT has a power of 60,000 watts (not 150,000, although they hope to have that much some day)."

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Sidelights on Eddy Duchin, NBC maestro: Learns a tune by hearing it once, but can't memorize a lyric. . . . Has his hands insured for \$100,000. . . . Organized his first orchestra while working as a waiter in a boys' camp, the group being composed entirely of waiters. . . . Made his microphone debut as pianist with Leo Reisman at the Central Park Casino. . . . Dances for his own recreation and spends most of his leisure at the radio, listening to other bands.

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Robert R. Irwin, President of the World Wide Dial Club, requests that his club be included in our Roster of DX Clubs which appeared in the November issue. This club is a "get together" organization which meets in Chicago twice a month. The second Wednesday of each month they meet somewhere down town, and on the fourth Wednesday the meeting is at the home of one of the members. For further information DXers in Chicagoland should get in touch with Mr. Irwin at 918 W. Gunnison St.

# The Shortwave Review

## Belgian Congo

OPM at Leopoldville works with Belgium at 3 am, and from 1 to 4 pm, EST, on 10140 kcs. (RX27).

## British Guiana

The Terry-Holden Expedition into the jungles of British Guiana, using the call letters VP3THE, has been heard throughout the United States. A 200 watt transmitter is in use, and the frequency is about 13910 kcs. (RX35).

## British Honduras

There is a new station in Belize, ZIK2, operating on 10600 kcs. (RX21).

## Bulgaria

LZA at Sofia, 14970 kcs, is heard from 7 to 7:30 am. (RX23).

## Canada

A new shortwave station is now in operation in Sydney, N. S. It is CJCX, 6010 kc, 1000 watts. It is owned by the Eastern Broadcasters, Ltd., Radio Bldg., Sydney. Programs of CJCB are relayed. (RX47).

A number of ship and shore 'phones are heard on 1630 kcs. Three of the shore 'phones are VBB at Sault Ste. Marie, Ont., VBE at Point Edward, Ont., and VBH at Port Arthur, Ont. They broadcast weather at 11 pm, EST. Some of the ships heard working these stations are the Algonquin, Canadian, Toronto, Lethbridge, Weyburn, etc., but none of their call letters are known. They can be heard near midnight. (RX55).

The new address of VE9CS on 6080 kcs is, c/o Station CKFC, Stock Exchange Bldg., Vancouver, B. C. (RX53).

## Canary Islands

EAJ43, Tenerife, is heard on 10370 kcs from 9:45 to 10 pm, EST, or sometimes until 10:30 pm (RX25).

## Ceylon

VPB in Colombo is on daily on 6160 kcs from 6:30 am, to 12:30



*Edward G. Robinson, celebrated for his hard-boiled roles on stage and screen, is shown here with comely Claire Trevor, his co-partner in the new dramatic radio serial of newspaper life, "Big Town." Heard over the CBS every Tuesday from 8 to 8:30 pm, EST.*

pm, and on Sundays from 7 am, until 11:30 am, EST. (RX27).

## Colombia

HJ1ABE is now broadcasting daily from 6 to 10 pm, and after the regular broadcasting period, they read the names of DXers who have reported them. This station is in Cartagena. (RX48).

HJ7ABD, Bucaramanga, 9610 kcs, announces reception of reports from listeners at 10:30 pm, EST. (RX23).

HJ4ABD has not been heard for some time, but was on 5980 kcs, the last time heard. HJ4ABP is heard on 6028 kcs but may shift back to 6033 to avoid interfering with Germany's DJC. HJ6ABA varies in frequency from 6050 to 6055 kcs. (RX21).

## Denmark

The call and frequency of the new Danish station is OZF, 9520 kcs. It is heard daily between 2 and 6:45 pm, the broadcast for the first half hour being directed by special antenna to South America and East Asia. The second part of the program is intended for North America and Greenland. Evening programs are also heard occasionally from Denmark on 11805 kcs, but a call sign and regular schedule has not been assigned this station. (RX27).

## Egypt

SUV in Abou Zabal (Cairo) works Europe between 1 and 6 pm, EST, on 10055 kcs. (RX27).

## Fiji

VPD2 on 9540 kcs is heard with a good-to-fair signal between 6 and 7 am EST (RX23).

## Great Britain

The British Broadcasting Corp. has been considering for some time the question of broadcasting in languages other than English. Inquiries made by representatives abroad have led to the conclusion that broadcasts from Daventry would be welcomed by listeners in Spanish and Portuguese South America, and by Arabic listeners in the Near East.

Changes in Transmissions IV and V from Daventry are announced. Part 1 of Transmission IV, broadcast from 12:20 to 3:45 pm, EST, is now carried over stations GSB 9510, GSD 11750, GSG 17790, GSI 15260 and GSP 15310 kcs. Part 2, from 4 to 6 pm, is radiated over GSB, GSD and GSO 15180 kcs.

GSP on Transmission V has been replaced by GSC on 9580 kcs. The time remains the same, 6 to 8:30 pm, EST.

## Guatemala

TGWA in Guatemala City, 9690 kcs, is best heard near 7:45 pm, EST. (RX51-52).

TGWA on 15170 kcs is frequently heard late at night.

## Hong Kong

ZBW has been reported, but with a poor signal, on 9525 kcs. (RX23).

## Hungary

The Budapest shortwave stations are now using the new directional antenna system and it is expected the signal strength of HAS3 and HAT4 will rival that of other European stations. (RX35).

## Italy

The Rome station has extended its broadcasting activities. The American Hour, one of the most popular programs on the shortwaves, is now broadcast daily, commencing at 7:30 pm, EST. The revised schedule of the Rome station is 11810 kcs, daily from 5 am to 12:20 pm. 9653 kcs, daily from 12:30 pm to 9 pm, EST.

## Japan

JZJ comes in very well every day, with signals as good as R9 at times. JZK has also been heard, near 1 am, EST, (RX35). JZJ 11800 kcs, is heard daily from 4:30 to 5:30 pm. War news in English, Spanish and Japanese, as well as Japanese music. (RX51). JVH 14600 kcs, is heard from 11 pm, to midnight. (RX23).

## Mexico

The newest Mexican is XETW, 6045 kcs, Tampico, Tams. Broadcast band station XEFW on 1310 is relayed. Heard until 11:30 pm, and sometimes later. (RX52).

## Paraguay

Our Argentine representative reports that ZP14, Villarica, Paraguay, is now being heard on a frequency of 6040 kcs. The slogan used by ZP14 is "Radio Cultura."

## Poland

A new transmitter has been added to the Polish s. w. system. It is SPD, working on a frequency of 11500 kcs. The new station, and SPW on 13635 kcs, are heard from 6 to 7 pm, every night, and on Sundays until 8 pm. Both stations



come in with good signals, but SPD is slightly the better. (RX49).

### Portugal

CT1AA is now announcing its new call letters, CS2WA. Their frequency is given over the air as 9650 kcs, and the power as 2½ kw. (RX35).

### Siam

HS8PJ Bangkok, transmits from 8 to 10 am, EST, on 19020 kcs, on Mondays only, and at the same time on Thursday on 9510 kcs, with a power of 5 kilowatts. This station is owned by the Post and Telegraph Department, in charge of Colonel Phra Aram. Programs consist of Siamese and European music, and news bulletins. Announcements are in Siamese, English and French. (RX47).

### Spain

"Radio Nacional" at Salamanca was heard broadcasting a special program for North America on 10370 kcs. The volume was "terrific." (RX25).

### Union of South Africa

The Johannesburg station is now heard in all parts of the country. The programs start off with bugle calls, then setting-up exercises follow. The Town Hall Clock strikes 7 a. m. at midnight, our time. The address is Box 4559, and the schedule of broadcasts is 11:45 pm, to 12:45 am, EST, daily except Saturdays. Two frequencies are used now, announced as 9606 and 6097½ kcs. (RX21-23-35-51-52).

### United States

The General Electric Co. has a construction permit for a new international broadcast station to operate on frequencies of 9530 and 15330 kcs with 20 kw. power, un-



*The reception room of Radio Hall, the home of Station WHA, located on the campus of the University of Wisconsin, at Madison, Wis.*

limited time. The station will be located near Belmont, Calif.

It is reported W2XAD and W2XAF will increase power soon to 100 kw. (RX54).

WWPA at St. Albans, Vt. is heard broadcasting time signals every night at midnight, on 1626 kcs. (RX55).

A complete list of the Police Stations of North America was printed in the September issue of RADEX, and changes and additions to this list are shown in this column every month. Alterations which have taken place since our December issue are shown below:

#### New

- 1.642 KASP Little Rock, Ark. (1.)
- 1.658 WQFR Portable in N. Y. State (.25)
- 1.674 KHPA Lees Summit, Mo. (1.)
  - KHPB Macon, Mo. (1.)
  - KHPD Springfield, Mo. (1.)
  - KHPE Poplar Bluff, Mo. (1.)
  - KHPF Jefferson City, Mo. (1.)
  - WAMF Portable in Pa. (.5)
- 1.706 WANH Raleigh, N. C. (1.)
  - WANI Williamston, N. C. (1.)
  - WANJ Williamston, N. C. (1.)
  - WANK Salisbury, N. C. (1.)
  - WANL Elizabethtown, N. C. (1.)
- 1.712 KAPM Wailuku, Hawaii. (1.)
  - WMPR Revere, Mass. (.05)
- 2.036 WPDM Dayton, Ohio. (.5)
- 2.040 WPDM Dayton, Ohio. (.5)
- 2.044 WPDM Dayton, Ohio. (.5)

- 2.450 KADH Mangum, Okla. (.05)  
 2.458 WDPW Wilmington, N. C. (.1)  
 2.474 WKMP Kenton, Ohio. (.05)  
 2.490 KSPM Portable in Wash. (.05)  
       KSPN Portable in Wash. (.05)  
       KSPW Portable in Wash. (.015)  
       WMPQ Logansport, Ind. (.1)

#### Frequency

- 2.466 WRDR Grosse Points, Mich. (.35),  
 from 2.414

#### Power

- 1.712 KACU Longview, Texas, 500 w.  
 from 250 w.

Ohio State Police stations operate on 1596 kcs. They are not shown in our police station index because 1596 is now in the broadcast band. The stations are WPGG Findlay, WPGQ Columbus, WPHC Massillon, WPHK Wilmington, WPHT Cambridge, and WPFT, a portable.

WNYF, New York City Fire station on 1630 kcs, works fire boats in New York Harbor nightly at midnight. The boats reply on 35.6 megs. Some of the fire boats are W2XNA, "Wing," W2XNB, "Hewitt," W2XND, "Willet," W2XNC, F, G and I (RX55).

W2XGB at Hicksville, N. Y., 17310 kcs, is heard at 10:40 am, and 2:30 pm. WMI Lorain Ohio, 6450 and 2560 kcs, gives weather reports at 10 pm. WWOJ at Sault St. Marie, Mich., 2570, also broadcasts weather at 10 pm. (RX23).

#### Uruguay

CXA8, 9640 kcs, relaying LR3 at 7:40 pm, has been heard very well. Reports should be sent to Radio Belgrano, Buenos Aires, Argentina. (RX23).

#### The Reporters

- R21, Anthony Tarr;  
 RX23, Carl and Anne Eder, Minn.  
 RX25, George Nahas, N. Y.  
 RX27, Raphael Geller, N. Y.  
 RX35, Albert Steinmetz, N. J.  
 RX47, D. H. Dussek, Great Britain.  
 RX48, Harold Lund, Pa.  
 RX49, Kenneth Morey, Mass.  
 RX51, Gilbert Harris, Mass.  
 RX52, Samuel Meyer, N. Y.  
 RX53, Rob't. Morrison, Canada  
 RX55, C. Roman, Illinois.

## The Stamp Corner

● ● ● By David Brockton Browne

**M**ARCHING forward with the New Year, readers of RADEX will in the future find a column devoted to stamp collecting, or philately as some collectors prefer to call it, in each issue.

The column will feature news of current and future postal issues of those countries where radio stations exist; will try to solve some of your stamp collecting problems; and give a few hints and cautions concerning the hobby as well.

The success of a stamp column depends largely upon the support and co-operation of its readers. Your Stamp Editor will do his best to make this department interesting and worthwhile to RADEXERS, and will try to please your desires whenever he can. We shall be very happy to answer briefly any questions that may be worrying readers concerning stamp and cover collecting, if they will write to us in care of this magazine.

We cannot, however, enter into any exchange or lengthy correspondence with our readers on either stamp or radio matters, of any kind. Won't each of you, though, write a few words to RADEX' Editor, and tell him how you like this new venture? Thank you.

#### New Stamp Issues

1938 promises to be a "stamp-a-month year" for the United States if present predictions materialize. The long-awaited replacement of the regular postage series, in use since 1922, will begin soon after the New Year. Featured will be those Presidents who have never appeared on a U. S. postage stamp before. At least one new value, 4½c, will appear as this rate is widely used on church envelope mailings, etc. It is possible that an 18c stamp may also be added.

No definite plans for new commemorative issues have been announced as yet, but collectors might well prepare themselves for another Constitution stamp, and one honoring the State of Delaware. Now that the field of military heroes has been explored and the possessions series is finished—serious consideration is being given to a series honoring cultural leaders, such as famous American scientists, authors, inventors, and educators.

An imposing array of nations have chosen to honor the 150th anniversary of the United States Constitution by issuing one or more commemorative stamps. Among these countries are: France, Brazil, Salvador, Guatemala, Ecuador, Honduras, and Nicaragua. Undoubtedly, before many more weeks pass, several other nations will be added to this ever-growing list which promises to make an interesting collection all by itself.

Italy has released a pleasing series of ten pictorial stamps honoring five Italian cultural celebrities whose centenaries occur this year. Composers Spontoni and Pergolesi, the painter Giotto, violin-maker Stradivari, and the poet Leopardi, are represented on two stamps each.

Miniature sheets are rapidly growing in number. The Franco government of Spain adds the Ayamonte sheet—5c red and blue—in an imperforate block of four.

Egypt honors the Abolition of Capitulations with three colorful pictorials showing a medallion of a native woman with a water jug. Values and colors are: 5M brown, 15M purple, and 20M deep blue.

#### Helpful Hints

Do not leave your stamps lying around carelessly in shoeboxes, envelopes, etc.—if you want to keep them in good condition. And condition in a stamp is all-important. There are numerous inexpensive

stamp albums available at your local stationers or stamp dealer that will help preserve your collection. A mounted stamp always makes a better appearance too. But be sure that you mount your stamps with peelable stamp hinges—not with paste or mucilage.

To get the greatest enjoyment from the hobby, every reader interested in stamp collecting should subscribe to a stamp magazine. No philatelic column in magazines or newspapers of general circulation can hope to cover the subject adequately. They can only hope to “hit the high spots.”

For detailed information on stamp collecting, we sincerely recommend any of the leading American stamp magazines. Among the better known are—Weekly Philatelic Gossip, Holton, Kansas; Mekeel's Weekly Stamp News, Portland Maine; Stamps Magazine, New York City, N. Y.; Linn's Weekly Stamp News, Columbus, Ohio and The Western Stamp Collector, Albany, Oregon. We are sure that each of these publications will be glad to send a sample copy—without charge—if you will write direct to them. (Please mention RADEX when writing). The average subscription price of the larger stamp magazines is \$1.00 a year.

Philately has many subdivisions. Among the most important is cover collecting—First Day of Issue, First Flight Airmail, Naval, Historical, etc. We shall try to touch briefly on some of these in the next issue of RADEX. Until then, good luck, both on the air waves and in the stamp album. Don't forget to write the Stamp Editor, soon, and tell him what philatelic subjects you would like discussed in future issues. Remember, this is *your* stamp column.

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ZP14, Villarica, Paraguay. is now on 6040 kcs.

# Universal DX

## Club Corner

● ● ● By "Pooky"



This month we have with us a little story that needs no comment, so "Pooky" feels that he can slip in another word or two about the contest. Well, there's really not much to say except, "Please write." There must be an idea or a bit of information in your head right now that someone else would like to hear about. Remove it! Put it down on paper and send it along to UDXC Headquarters, 345 Maple Ave., Oradell, N. J. It doesn't have to be a world-shaking idea, and it doesn't have to be written up in ten-league words. Just jot it down and send it. The chances are that we'll print it here in RADEX, with your name and all the trimmings, and if we do we'll send you a very generous reward. The list of prizes we are giving appeared in the September RADEX and will appear again shortly. If you haven't seen it, take our word for it.

What are you doing for the next five minutes?

Well, Virgil F. Foster, of 2100 Rockwell Ave., Alton, Ill., takes the cake this month with a story of amateur radio. The title is ours but the rest of the credit is his. We're awfully glad you wrote, Virge.

### Ham and Gob

"A friend of mine living in Maryland Park Addition, a little place near Alton, had an amateur radio station. He was always talking to

me about it, and wanting to send a message somewhere for me. I was skeptical but he kept right at me, until finally I said to myself, 'All right, I'll shut you up!' So I gave him a message for a friend of mine.

"The catch was that I had no idea in the world where this friend of mine was. He was a sailor, an old shipmate of mine, and I knew that he might literally be anywhere in the world. I had neither seen nor heard from him in over a year. The only address I could give was the name of the last ship from which he had been discharged.

"This didn't seem to bother my 'ham' friend a bit. About six months ago he started my message on its way. It went traveling across the United States, pausing here and there, touching every section of the country, but nowhere could my sailor friend be found. Finally, after more than a month, it reached the West Coast, but apparently my friend was not there either. Well, it did not hesitate. It started looking for him overseas.

"And nearly six months after it had left me my message reached him. He was serving on the U.S.S. Black Hawk, on duty in war-torn China! Imagine his surprise, and his shipmates' surprise, when he heard in this way from his buddy back home. And imagine my surprise when I received an answer from him the other day, telling me when and how my voice had reached him.

"This, my dear 'Pooky,' is one of the greatest things I have ever heard of, although I suppose it is not unique. From now on I am not skeptical of anything I hear about amateur radio. I am a solid backer of it. And may I use your column to thank all those 'Hams' who helped to speed my message on its way?"

Indeed you may, OM, and may "Pooky" add his humble "VFB?"

# IDA "Programs of the Week"

**I**N THE IDA "Programs of the Week," the International DXers Alliance is attempting to present something new and different in DX broadcasts. Each week throughout the present season, one North American station will transmit a feature program.

Although some of these stations will be attractive from a DX angle, the programs will be arranged primarily for the mass entertainment of the DX fraternity. Each broadcast will be a four-star feature program, and many novel and interesting stunts have been arranged to add variety and zest to the shows.

While sponsored by the IDA, these weekly broadcasts are for the entertainment of all listeners and DXers, regardless of club or non-club affiliations. It is hoped that listeners everywhere will give support and endorsement to this program series by listening in and forwarding a report, or at least a note of thanks, to the feature station.

As an added inducement for submitting reports, the IDA will award a cash prize of ten dollars to the DXer who receives verifications from the greatest number of "Program of the Week" broadcasts. In the event of a tie, the award will go to the DXer who has made the greatest all-around showing from the standpoint of location and acceptability of reports.

Suggestions for interesting and novel features to be included in these broadcasts will be welcomed by the director of this series, Herbert Tucker, 57 Kenilworth Drive, Akron, Ohio.

Following are the programs arranged to date:

#### Thursday, December 30th

1:00-2:00 WTAM 1070 Cleveland, Ohio

**Sunday January 2**  
3:00-4:00 CMAB 1340 Pinar del Rio, Cuba  
**Thursday, January 13**  
2:00-3:00 KFYR 550 Bismarck, N. Dak.  
**Sunday, January 16th**  
3:00-4:00 WCCO 810 Minneapolis, Minn.  
**Monday, January 24th**  
3:00-4:00 WHAM 1150 Rochester, N. Y.  
**Sunday, January 30th**  
3:00-4:00 CHWK 780 Chilliwack, B. C.  
**Sunday, February 6th**  
3:00-4:00 KWYO 1370 Sheridan, Wyo.  
**Sunday, February 20**  
3:00-4:00 KECA 1430 Los Angeles, Calif.  
**Sunday, February 27th**  
3:30-4:00 KGU 750 Honolulu, Hawaii  
**Sunday, March 13th**  
3:00-4:00 WCKY 1490 Covington, Ky.  
**Sunday, March 27th**  
3:00-4:00 KFOR 1210 Lincoln, Neb.

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

Reports to CHWK must be accompanied by ten cents for verification. Additional programs to complete the series will be announced in the IDA "Globe Circler" as well as other radio publications.

## Call-o-Gram Solution

The solution to the Call-o-Gram printed last month is given below:

RCA CQDX CKOC WWL  
XEL WRR A ART AWA  
KCMC MUSTANG WSJS  
R AIR MA TG H1H T  
VOAS ARID  
W TIU TI OR NOW K  
WTEL WINDSOR WAGA  
VAS WOC O OIL YSN  
AST KRKO KSOO XED

If the music of the La Conga Cuban orchestra that you hear over NBC on Friday nights sounds weird, maybe it's because the instruments they play are weird. Their instruments are a conga, a male drum; repicador, female drum; a bongo, which is two drums attached to each other; concerros (Cuban cowbells) and the quijadas, the jawbones of an ass.

# OUR READERS *and* Their Troubles

• • • *By the* TECHNICAL EDITOR

**I** HAVE a Truetone receiver, model A2, which does not have a phonograph connection. Will you please tell me how to connect the phonograph pickup, and also how to plug in for earphones? I intend to put a pickup arm on a phonograph at home, so tell me how the old spring type motor can run a radio. How is the volume of the phonograph sound controlled?

It is evident that you are not very familiar with the principles of the phonograph pickup. You need make no change in the phonograph you have, as the spring motor will operate the turn-table in the usual manner. But, instead of using the original sound-box and needle as you do when you play the records, you push it aside and set in place the pickup which you must purchase from some reliable radio store or mail-order house. This pickup has the usual needle, but it operates a tiny magneto-like unit that generates a small electric current, instead of the sound producing box and diaphragm of the old phonograph. The weak electric current is fed into the audio amplifying portion of the radio receiver, and the sound comes out of the loud speaker. The volume of the reproduced sound is controlled by the radio volume control in the usual manner. The receiver, of course, is detuned from any radio signal, but usually the connection into the audio portion cuts the circuit so that radio signals cannot come through at the same time.

The receiver chassis must be removed from the cabinet. Turn it over so that the connections to the manual volume control can be seen. This volume control consists of a

resistance of 500,000 ohms with a sliding contact that moves from one end to the other. At one end of the resistance of this control you will find a lead that connects at once to a resistor of 50,000 ohms. This resistor is numbered R-10 and should quickly be located. Do not mistake this resistor for another, No. R-14, of 2 megohms (much larger) which also attaches at the same point. Cut the wire connecting the end of the volume control and the first (R-10) resistor. From these two freshly cut ends run two short well-insulated leads to two binding post terminals or a phone-plug jack. When the pickup is used it is connected to these terminals or the jack. When not in use the terminals or jack should be short circuited with a piece of wire or shorted plug. If the leads are shielded, and the shielding grounded, operation will be better. Use a pickup of high impedance, for if a low-impedance pickup is utilized, it must be matched to the circuit through a high impedance output-matching transformer. "Astatic" pickup devices are always of high impedance.

We would like to bring to your attention, as well as to the many readers of this department, a device known as a modulated oscillator unit for connecting a phonograph pickup directly to the radio receiver without the necessity of making changes in the circuit. The entire unit may be placed within the cabinet, and the phonograph pickup is permanently attached to it. The output of the oscillator unit is fed into the receiver, demodulated, amplified, and re-produced through the loud speaker just the same as any radio signal. The volume control of the set is used to control the

volume of the phonograph reproduction.

There is also an adapter that can be purchased. By placing it beneath one of the tubes, a pickup can easily be connected to the set. Another device, that fits on the grid cap of one of the tubes, has two tiny contacts into which the phone tips of the pickup are connected. The same situation also exists as to earphones. A simple adapter, that fits under one of the tubes, provides a convenient connection for the tips of the headphone cord. The "Perfect" phone adapter sold by RADEX, is a highly satisfactory unit of this type. You will experience no difficulties in its use. An inexpensive pickup may be purchased as low as \$3.85, while phono-adapters are but 30 to 75 cents. Headphone adapters are somewhat more costly.

#### On Pre-Selectors

*I judge that many D-Xers are interested in pre-selectors but know very little about them from all I can hear. Why not give us an article on pre-selectors? For instance, what type of sets will it work with best? What is the proper number of tubes? What increase in sensitivity can one expect? Will selectivity be improved? Do they aid on fading stations?*

This is an interesting subject and we know that it is of interest to our readers for so many of them write us in a similar vein. A pre-selector, it must be remembered, is simply a radio-frequency amplifier. As such it adds its efficiency to that of the radio receiver. A peak pre-selector or preamplifier will add increased efficiency to short-wave receivers or all-wave receivers on the short-wave bands. It increases the sensitivity of the set to weak signals. Most of these devices are best used on the short waves, although there are all-wave pre-amplifiers that cover the entire wave band.

It is claimed that a pre-selector

will bring up weak signals to a strength of R-7 and R-8. Atmospheric noises are reduced because additional tuning circuits are utilized, and there is a very narrow frequency band available which tends to eliminate much interference noises and image-frequency faults.

A good pre-selector may be used on the short waves. It should cover at least three bands with separate coils and switching arrangements. These ranges preferably run from 10 to 35 meters; 35 to 75 meters; and 75 to 200 meters. One tube in a pre-selector will not give sufficient amplification. For this reason two tubes are universally utilized. This provides two full stages of radio-frequency tuning and amplification. It is a disadvantage to take the filament and plate voltages direct from the receiver, so the better pre-selector will take its current from a built-in power supply with rectifier tube. RADEX has not undertaken to design and submit to its readers a pre-selector circuit, although there has been a demand for such. Radio-frequency circuits are difficult to arrange and assemble, and the relatively inexpensiveness of completed selectors is such as to preclude the thought of building one. However, excellent kits may be obtained, and we shall be glad to recommend manufacturers by mail.

To those who wish to build a very simple one we suggest that a radio-frequency coil, tuned with a variable condenser, both of capacity and inductance to cover the short wave bands, and one battery operated r-f tube, will suffice as an experiment. Feed the plate output of the tube to the antenna post of the receiver through a .002 mfd. bypass condenser. Obtain a shielded coil wound for the short-wave band desired, and use this with a small short-wave tuning condenser shunted across the ends of the coil. The top of the coil is connected to the

grid of the tube, and the bottom to the filament or negative A and B terminals. The primary of the coil is connected to the two ends of the doublet, or to the antenna and the ground.

### Antenna Location

*I am about to erect an RCA "Spiderweb" antenna. It will be about 200 feet from the street where there is a power line, and about 100 feet from my RCA 15-K receiver. Will 200 feet distance from the power line be enough to get away from interference from that source? I have been told that it should run north and south and that it ought to be parallel to the power lines. However, I have sufficient room to run it in any direction. I need additional leadin and how can I arrange this? The antenna will be erected on iron poles about 35 feet high. Is this satisfactory?*

Since you are able to erect an antenna at least 200 feet from a street where there is a power line you should consider yourself fortunate indeed. The RCA Spiderweb unit which you have selected consists of a series of doublet antennas cut to different lengths that will cover most of the wave bands very fully. This arrangement requires only 38 feet of horizontal length and 12 feet of vertical clearance. The Spiderweb antenna really is a multiple double-doublet system.

Its directional characteristics are about the same as for any doublet or double inverted "L" antenna. The antenna will respond best to signals that come to it from a direction that is at right angles to its length. Therefore, if you point the antenna north and south it should pick up signals that come from the east and west. However, that does not mean that it will perform only in that direction. We think that for the southern portion of the United States a direction that is northwest

and southeast will be best for European work.

All interference that is picked up by the leadin wires will be cancelled out by the transposition of the two wires. But if the antenna itself is in a noise zone there is nothing that will prevent it from picking up induction noises. A power line, if within the zone, will be troublesome. Whenever a power line is nearby, keep the antenna as far off as possible to lessen the chances for inductive pickup. Any doublet antenna or double-doublet has a minimum amount of signal pickup in the direction of its horizontal length. This makes it possible to utilize the rather positive directional effects of the antenna so as to eliminate much man-made interference. Therefore, if the antenna is pointed toward the source of interference, it will pick up a minimum of noise. This applies to power lines which should run at right angles and not parallel to the doublet antenna. There has been much discussion about this, but it has been rather definitely decided that doublet antennas should point as nearly as may be practicable directly toward the source of man-made interference.

Since you are using two tall iron pipe poles we suggest that you space them sufficiently far apart so that two or three insulators can be placed at the ends of the antenna with a spacing of about 12 inches between each insulator. Iron poles can pick up and reradiate interference and signals to the aerial top, and good insulation and spacing will tend to prevent most of this type of trouble. The matched transmission line must not be cut for any reason. If the line is too short then you might as well erect the antenna farther off and use a second section of leadin of the same length as the first. Any doublet antenna with coupling transformers which are



matched to the impedance of the antenna and - to the transmission line, must be connected to the receiver by the proper amount of leadin or transmission line.

### Static Troubles

*I have a 1937 Silvertone 7-tube set. It is used with a single-wire antenna about 75 to 100 feet long and 40 feet high. The leadin is 30 feet and the ground is 7 feet. How can I get a transformer to fit this antenna as I am troubled with static? Is this outfit suitable for D-X work? What do you think of a chemical ground, and how is it made? Does the length of leadin and ground make any difference? Shall I use a twisted leadin, but, if so, how is it connected to the receiver? When I lengthened my antenna I found more stations crowding and also began to hear stations when a local was quiet for announcements.*

The receiver you own and the antenna used make a good combination for D-X work. But perhaps a few changes will be in order. It seems that the antenna must be too long, for the fact that stations interfere and are hard to tune out makes it appear so. Try shortening the aerial to 50 feet or even 40 feet. Make it into an inverted "L" shape with the leadin running directly to the receiver. Of course, one of the new doublet combinations will prove very satisfactory. They come in kit form ready to erect. The strong twisted wire is very good for this purpose. If the inverted "L" antenna is used, the wire may be all in one piece, beginning at the far end and passing direct to the radio set. The "L" antenna is slightly directional along the line of the wire towards the end in which the leadin comes down. The longer the flat top and the shorter the leadin, the more directional the antenna will prove. The doublet antenna is directional along a line that is

broadside to the length of antenna wire.

If a transformer is used with your present antenna, you must utilize a shielded leadin wire or twisted pair, such as the Zepp, and two transformers, one up at the antenna and one down at the set. These are useful only in preventing the pick-up of man-made static in the neighborhood of the leadin wires. If you are going to try transformers for static elimination, we endorse one of the modern doublet noise-reducing antenna systems. This, however, will not prevent any static that is picked up by any portion of the antenna top that may remain in the noise zone. Full instructions accompany the antenna kits and you will have no difficulty in attaching the wires to the set. In most cases a ground wire will no longer be necessary.

However, if you are troubled with static that comes into the set through the power line or electric lighting wires, you will need a filtering device that plugs into the electric light socket. The radio cord then plugs into the filter. These units are rather inexpensive, and you should be able to purchase a good one for about four dollars and upward.

We believe that a good ground is always a simple ground. If a copper wire is soldered or clamped to a bright spot on a cold-water pipe it should be very satisfactory. However, electrical instruments or devices should not be grounded to the same pipe. Chemical grounds outdoors are satisfactory, but very often a perfect ground can be obtained simply by driving three 6-foot lengths of new  $\frac{1}{2}$ " pipe into the earth. These pipes should be spaced several feet, and set into some spot that remains damp most of the time. The top of each pipe is connected to a heavy copper ground wire with clamps or solder. The

length of the ground wire to the set should, of course, be kept as short as possible.

### Two Antennas

*I have an all-wave aerial up at present, but I intend to string another wire beside the first as a single-wire antenna for longer-wave reception. Actually, the two wires will be rather close together. Will this in any way ruin or cause absorption of the all-wave aerial? The all-wave antenna has a transformer at the set. Can I connect a throw switch so that the set may be shifted instantly from one antenna to the other without going through the all-wave antenna transformer?*

You will find it a simple matter to erect the additional single-wire antenna adjacent to the present all-wave system. However, we suggest that you space the two as far apart as may be practical. Although you will be using but one aerial at a time, there is some truth in the belief that the wires of a closely adjacent system will detract from the maximum efficiency of the aerial. On the other hand, if a wire is placed correctly it might act as a reflector so as to aid reception from some particular point on a certain frequency.

You should procure a double-pole double-throw knife switch with porcelain base. The two center contacts are those of the knife blades. The two wires from the radio receiver (antenna and ground) are connected to the center or knife blade contacts. The two outer contacts at one end of the switch should be attached to the terminals of the transmission-line matching transformer. When the switch is thrown to these two contacts, the connection between the set and transformer is completed, and the all-wave antenna is then in use. There now remains the two contacts at the opposite end of the switch. Connect

one of these to the single leadin from the single-wire antenna, and attach the other to the ground wire. When the switch is thrown to this end, the contacts will connect the antenna and ground terminals of the set to the antenna and ground contacts, respectively, of the switch. Merely by throwing the switch to one end or the other, either antenna may be connected to the receiver.

### Whistling Set

*The trouble with my set is that when the volume control is turned up the station gives a whistle, and finally the whole band becomes dead. Local stations, too, are spread out very badly, as much as 100 kilocycles to either side of the point on the dial where they are supposed to be heard. The locals are distorted and finally die as the volume control is increased. This receiver is a Mental with Hytron tubes, and I would like to know the values of the different resistors.*

In most cases, troubles such as you describe would be caused by a defective tube—perhaps the 25A7. We suggest that, first, you have all the four tubes in the set carefully tested. Next, we should have our suspicions about the volume control itself, if the tube that connects to the control tests perfectly. The next following step in analyzing the trouble would be to check the plate voltages of all the tubes, for a failure in some operating voltage can cause whistling. The fading and failure of the set when the volume control is increased to maximum may be due to a great increase in grid biasing, thus rendering the tube in question inoperative. So, in addition to the above the grid bias must be carefully checked. Any failures in voltages indicate that some resistance is defective, or a bypass condenser is open. In short, a thorough examination of the set by a

competent service man seems to be in order.

We regret that we cannot list the proper values of the resistors in this set as the information is not available in our files. However, the units are standard, and the color code, available to every service man, will instantly inform him as to what replacements are required, if any.

Broadtuning, such as you describe, is a bad disorder in the set. When the tubes and volume control have been checked and remedied, if necessary, the trouble may correct itself to some extent. However, a realigning of the condensers and units is indicated. The r.f. and i.f. coils and condensers are most likely out of adjustment. But it is our opinion that you cannot expect too much in the way of highly selective tuning and station separation when the locals are on, when a set is constructed of but three tubes, two of which control the entire tuning operation.

#### Size of Coils

*I am building an all-wave set which will use plug-in coils to be tuned with a .00025 variable condenser. I have experienced difficulty in obtaining data as to the correct number of turns of wire for the coils. Can you tell me how to make these coils and the number of turns of wire to be wound on?*

You can purchase these coils ready wound from several of the mail-order radio supply houses, and we think this is the easiest way out of your problem. Even if you wind them you must first procure insulated forms, and these cost nearly as much as the completed coils. Finished coils, ready to use, also come completely shielded, and this is quite necessary in your case. However, make the coils the following sizes:

For a plug-in coil to cover the 10-20 meters band, wind 6 turns of 22 wire, each  $\frac{3}{16}$  inch apart. Skip

$\frac{1}{8}$  inch and wind 4 turns closely of No. 30 for the primary or tickler coil. For the 20-40 meters coil wind 12 turns on the secondary and 6 turns on the primary. Wind the secondary in a space 1 inch long. For the 40-80 meters coil wind 24 turns on the secondary, at the rate of 16 turns to one inch, and put 7 turns on the primary. The 80-200 meters coil has 45 turns on the secondary, closely wound, and 15 turns on the primary. You can use a small variable condenser for these coils—one of .00015 mfd. The .00025 you have will suffice, but if you remove two of the rotor plates its capacity will come closer to tuning the coils throughout the full movement of the rotor. The condenser you have is too small to cover the entire broadcast band with only one coil. It is best to use a standard coil of about 75 turns, 2 inches in diameter, with a .0005 mfd. condenser. Otherwise you will require two coils to cover the broadcast band properly.



*Dorothy Thompson, the wife of Sinclair Lewis, discusses People in the News on the NBC-Red every Friday at 10:45 pm, EST.*

# PROGRAMS from Hollywood

• • • By BETTY

YOUR Hollywood Parade, a new 52-week series of full hour musical and dramatic broadcasts designed to provide a panoramic radio view of activities in the movie capital, has been launched over the NBC-Red Network on Wednesdays. This program, replacing the Hit Parade, is sponsored by the American Tobacco Company and produced by Warner Brothers Pictures, Inc., with the addition of 15 minutes to round out a full hour.

With Dick Powell as master of ceremonies and central star, and all the talent resources of Warner Bros. Pictures behind it, the new show includes previews of Warner pictures and features guest stars of prominence in all fields.

Rosemary Lane is also starred in the new series. All other Warner screen stars will be heard in Your Hollywood Parade, and directors under contract to Warner will be available in the production of dramatic sketches and picture previews to be heard in the series.

## O'Keefe Back

Walter O'Keefe, NBC comedian, who announced lugubriously on Town Hall Tonight that Fred Allen would succeed him on that program "just in time for me to be listed as Number One on the Unemployment Census," isn't worrying any more. He's got a permanent job, as Walter has joined the Hollywood Mardi Gras series over the NBC-Red and co-stars with Lanny Ross and Charles Butterworth.

The new contract for O'Keefe came as a reward for his outstanding success while pinch-hitting for Fred Allen.

In joining the Tuesday night pro-

gram, Walter will be reunited with an old friend and classmate, Charles "Dead-pan" Butterworth, with whom he attended Notre Dame. Walter's addition to the Mardi Gras will not cause any changes in the permanent cast that includes Jane Rhodes, rhythm singer, and Raymond Paige with his orchestra and chorus.

Walter calls Hartford, Conn. his home. He went from there to Notre Dame, where he and Butterworth discussed ambitions for the theater, then turned to newspaper work. Shortly thereafter he suffered an attack of infantile paralysis and during the long months of recuperation he turned his hand to writing comedy lyrics and sketches. Upon recovering he headed for Broadway and broke in through night club work, with Texas Guinan at Barney Galant's.

## More Hollywood

Unusual human interest stories about motion picture stars and exclusive news stories of the film capital are among the "Hollywood Screenscoops" by George McCall, broadcast over the nationwide Columbia network each Tuesday and Thursday from 7:15 to 7:30 pm, EST.

George McCall brings to his radio audience a variety of experience in the theater, newspaper and motion picture fields that lends color to his reporting. In Hollywood he became famous through his "Roamin' Round Hollywood" column. Some of his other ventures included acting as publicity head for a motion picture company; his production of "The Last Moment", the picture which was awarded the French Academy Cinema Award in 1927; his appointment by the Canadian Government

to produce a picture of the opening of the Hudson Bay shipping route as a short cut to Europe; and for writing several feature stories and interviews for newspapers and magazines.

### **Mental Telepathy**

Presenting a unique series of tests and experiments in mental telepathy under the supervision of several of America's leading university scientists, the Zenith Foundation presents its weekly broadcasts over a nationwide CBS chain at 10 pm EST on Sundays.

Conceived and founded by Commander E. F. McDonald, Jr., president of the Zenith Radio Corporation, under whose sponsorship the series is offered, the programs are designed to determine whether telepathy as an extra-sensory power exists and if so, to learn what such powers of the human mind are, how common they may be, to what extent they may be cultivated, and how they function.

The tests consist of the selection of various objects, designs, colors and other things quickly identifiable by the mind, by a mechanical device, the action of which is unpredictable. Ten especially selected telepathic senders then concentrate on the machine's selection and attempt to project the thought to the listening audience. Senders are isolated in a room away from the broadcasting studio, and they alone know the selections the machine has made, which are revealed only after several days have elapsed.

### **On the Mutual Bandwagon**

Morton Gould, Mutual's youthful orchestra leader who has won a name for himself by his smartly sophisticated arrangements, is heard over Mutual from coast-to-coast on Mondays from 8 to 8:30 pm EST . . . Jack Arthur is the soloist on this show . . . Two popular Mutual features formerly heard on Fridays are



*The NBC has announced immediate construction of one of the world's greatest studio buildings in the heart of Hollywood. The architect's sketch shows an ultra modern building, patterned after the motion picture unit plan, to house eight large studios and executive offices. This building will replace modernistic studios built only two years ago.*

now broadcast on Saturdays . . . Pat Barnes and his Barnstormers with Paul Roberts, baritone, come to Mutual microphones from 8 to 8:30 pm on Saturdays. Olga Baclanova's Continental Revue with Raoul Nadeau and the Chorus, comes to the stage of the Mutual Playhouse from 8:30 to 9 pm on Saturdays . . . Anson Weeks and his ever popular dance orchestra have returned to the Aragon Ballroom and the Mutual Network on Saturdays, succeeding Freddy Martin . . . With Weeks are vocalists Frankie Saputo, Margie Dee and a newcomer, Jack Wells.

Bits about NBC broadcasters: As might be expected, Edward MacHugh, the Gospel Singer, collects hymn books. He has a library of 2,000. . . . Helen Jepson finds relaxation in the kitchen, specializing in fried frogs' legs which dinner guests pronounce a culinary masterpiece. . . . Smilin' Ed McConnell made his professional debut as a trap drummer at the age of nine.

Only the old timers in radio remember that Milton Cross sang as well as announced over NBC. That he is still heard singing IS news. As announcer for Ireene Wicker's Singing Lady programs over the Blue Network he joins her in singing The Song of the Week, a tune chosen by Miss Wicker for her unseemly audience to learn and sing.

# Inter-Club Plan for 1938

● ● ● By Robert H. Weaver

**H**AVING recently been selected to take charge of the Inter Club Co-operation Plan for the 1937-38 season, I cannot help but feel that I should present my views in regard to the Plan and the good which it can accomplish.

As Clearing House Manager this season, it is my hope to go a little beyond that which has been done in the past.

First of all, I hope by some method to reach an agreement with the all-night broadcasters, whereby they will agree to remain silent for at least one period each month, during which time the various clubs will be able to contact stations operating on the same or adjacent frequencies. In return, I feel that it would be no more than fair for the clubs to refrain from scheduling special programs from other stations on these during the balance of the month. Thus the all-night broadcaster would be assured of a clear channel except when he was silent.

Letters have been sent to each of the all-night stations and a few replies have so far been received. WEXL advises that it broadcasts from 8 a. m. to 4 a. m., EST, daily except Sunday, and also signs off at 2 a. m., EST, during the week of the frequency checks. WNEW says that it is off the air during the following periods: Sunday from 12:30 to 6:30 p. m. and 9 p. m. to 7 a. m. Monday; 2 to 5 and 8 to 10 p. m. on Mondays; and from 4 to 5 a. m. the second Wednesday of each month.

KGFJ observes silent periods during the week of the frequency checks as follows: Monday—5:10 to 6:30 a. m., EST; Tuesday—6:40 to 7 a. m.; Wednesday—5:50 to 6:50 a. m.; Thursday—5:10 to 6:50 a. m.; Friday—5:10 to 6:50 a. m.; and Sat-



*Alistair Cooke, brilliant young critic, journalist and radio commentator, is heard over the NBC-Red Network. His talks are light and entertaining reflections of happenings in the worlds of politics, books, theater and the passing scene. Until recently, Mr. Cooke was film critic of the British Broadcasting Corporation.*

urday—5:10 to 5:50. WIL advises that it is silent after 2 a. m., EST, on weekday mornings from the 8th to 14th of each month. WABY has no all-night program from the 8th to the 14th.

I have written the Bureau of Standards at Washington to learn about plans for possible test programs from foreign stations, such as were broadcast during the past two winters. It was my intention to aid these tests by seeing that affected channels were kept clear to avoid interference by dedicatory programs.

In reply, the Bureau advises that no European stations will be asked to participate in any tests this winter, but that LR1, Buenos Aires, has been requested to broadcast a series of programs. Just as soon as dates

are confirmed, we will be advised accordingly.

I am further endeavoring to get a complete list of regular test periods from the various stations, that is, any periods which take place outside of the regular frequency checks during the second week of each month. Whenever I am advised of a test, I will attempt to keep the channel clear of other special programs.

It is my hope to be able to conduct this Clearing House on a strictly impartial basis. I will welcome ideas from readers on how the Plan may be bettered, and ask that all suggestions be sent direct to my home at 603 W. Market St., York, Pa.

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## Station News

KTSM, El Paso, Texas, will become a member of the NBC-Pacific supplementary group, available to either the Red or Blue Network. Lines are now being constructed to KTSM from Albuquerque, N. Mex., and NBC service will start as soon as these are completed, about April 1, 1938.

The two new Canadian stations, CBM and CBF, Montreal, have joined the NBC. CBM (formerly CRCM) carries the Red Network programs in English, and CBF carries the programs of either the Red or Blue Network with French announcements. CFCF, NBC affiliate since 1931, broadcasts Blue Network programs in English.

All the Cincinnati NBC stations are now available to either the Red or Blue Networks. WCKY at Covington, Ky. was formerly a Blue affiliate and WSAI was on the Red Chain. WLW continues as optional to either network.

KFBK Sacramento and KMJ, Fresno, both owned by the McClatchey Broadcasting Company, have been granted special experi-

mental authority to operate their regular broadcast transmitters for experimental facsimile signals from 12 midnight to 6:00 a. m. PST on their regularly assigned frequencies.

Station CHAB, Moose Jaw, which broadcasts many CBC programs, is being re-equipped from microphones to antenna. Sparing no expense in obtaining the last word in technical perfection, not one piece of its present equipment will remain in general use. H. Carson Buchanan, a pioneer broadcaster of Western Canada, is station manager.

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CFAR, the new station at Flin Flon, Man., on 1370 kcs, is owned by the Arctic Radio Corp., 120 Main St.

CFRB, Toronto, 690 kcs, has moved from Bloor St. to 622 Fleet St.

The studios of CHLT, 1210 kcs, are located at 3 Marquette St., Sherbrooke, P. Q.

Studios of CKBI, 1210 kc<sup>s</sup>, have been moved from the Canada Bldg. to the Sanderson Bldg., Prince Albert, Sask.

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### New Aerials for Millis

Westinghouse is erecting two modern directional antennas for use by W1XK at Millis, Mass. One aerial will be beamed toward South America and the other towards Europe. The directional aerial, together with an increase in power, will strengthen the signal ten times its present output, according to Walter Evans, manager of the radio division of Westinghouse.

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### VE9HS Identified

Mr. R. D. Cahoon of the Engineering Division, Canadian Broadcasting Corporation, Keefer Bldg., Montreal, P. Q., kindly forwards us information concerning shortwave station VE9HS. His letter follows:

"I note in your October Radio In-

dex in the section 'Shortwaves in Review', a request for information concerning Canadian shortwave station VE9HS. This station was operated during the summer on board the R. M. S. Nascope under a portable license, doing experimental work on shortwave 'phone transmission from the Canadian Arctic to Ottawa. This station had an output power of 200-watts 'phone and operated on the following frequencies: 15190, 11705, 9820 kcs, as well as two lower frequencies for local testing.

"These tests were carried out with view to doing a series of broadcasts to be rebroadcast on the Canadian Broadcasting Corporation's network."

## 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.

Canadian and United States calls heard are listed here only when reported by listeners not resident in North America. Cuban calls are

not listed when heard by listeners in United States or Cuba.

**C-E**  
**CN8MB** (l); **EA9AH** (bfl).  
**F**  
**F3-**: **HM** (l); **NF** (l); **OO** (l); **F8-**: **DC** (l); **JI** (l); **QD** (l); **RR** (g).

**G**  
**G2AV** (f); **G2PU** (l); **G5RV** (l); **G5ZJ** (l); **G6-**: **BW** (gl); **DL** (l); **DT** (l); **GF** (l); **LK** (gl); **WP** (l); **XR** (f); **G8SB** (l).

**H**  
**HCL-**: **FG** (f); **JB** (fgk); **PM** (f); **HH-**: **2B** (fl); **2X** (fl); **5PA** (f); **HI-**: **3N** (dfl); **5X** (l); **7A** (l); **7G** (l); **7I** (f); **HK-**: **1EP** (k); **1MV** (f); **2JA** (f); **3JA** (fk); **HP1A** (f); **HR5C** (l).

**K**  
**KAL-**: **BH** (km); **HS** (k); **ME** (kl); **K4-**: **EJF** (l); **SA** (g); **K6-**: **BAZ** (fk); **BNR** (fk); **CMC** (f); **GQF** (fl); **ICL** (g); **JHD** (l); **JLV** (f); **KMB** (fk); **LCV** (g); **MZK** (f); **NTV** (g); **NZQ** (fk); **OJI** (f); **OQE** (fk).

**L-N**  
**LA1G** (l); **LU-**: **1HI** (fk); **4BH** (f); **5C** (l); **6AF** (f); **9BV** (f); **NY2AE** (fk).

**O**  
**0A4-**: **AE** (f); **AI** (g); **AL** (fg); **C** (f); **ON4VK** (fl); **OQ5AA** (ff); **OX2QY** (deijl).

**P**  
**PAOZB** (g); **PK-**: **1GL** (l); **1MX** (a); **2WR** (l); **6CI** (a); **PY2AK** (f).

**S-T**  
**SUI5G** (f); **TL-**: **1AF** (f); **2AV** (fk); **2DC** (g); **2FG** (i); **2FJ** (l); **2KP** (f); **2LR** (f); **2OFR** (f); **2RC** (f); **3EA** (l).

**V**  
**VK2-**: **ADE** (f); **ADT** (l); **AFQ** (f); **AGE** (l); **AP** (f); **BQ** (fm); **CP** (f); **DJ** (l); **HF** (fl); **HS** (l); **OU** (l); **QR** (f); **ZC** (l); **VK3-**: **AL** (fl); **AO** (l); **WA** (l); **VK4JU** (f); **VK4VD** (f); **VK5BP** (l); **VO-**: **2N** (f); **2Z** (l); **6D** (f); **6L** (g); **VP3BG** (l); **VP3THE** (df); **VP7NC** (l); **VP9R** (ghl); **VU-**: **2CQ** (c); **2JN** (c); **7FY** (c).

**X**  
**XE1-**: **BC** (f); **BX** (m); **CV** (g); **DT** (f); **GF** (g); **GK** (f); **GS** (g); **LK** (fk); **Y** (fk); **XE2-**: **AF** (g); **FC** (fg); **K** (k); **XE3AH** (g); **XE3AR** (f).

## RADIO AMATEUR CALL BOOK

### LATEST EDITION

Lists over 40,000 amateurs in every country in the world, as well as complete and accurate lists of all high frequency commercial and broadcasting stations. Every listener interested in amateur stations should have one. 292 pages.

We pay the postage,



**\$1 25**

## 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)



YV4-: AB (l); AF (l); AO (g); AX (l);  
 YV5-: AA (f); ABA (l); ABF (fgln);  
 ABG (l); ABJ (l); ABS (l); AD (fl); AE  
 (kl); AM (fl); AS (f).

Z

ZS3E; ZS5M; ZT5H; ZT5S; ZT6AL;  
 ZT6AN; ZU6AF; ZU6AJ; ZU6P (All heard  
 by f).

The Reporters

- (a) Gail Beyer, 3226 Sunnyside Ave., Chicago, Ill. (Hallerafters S8A).
- (b) Carl and Anne Eder, Willmar, Minn.
- (c) Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y.
- (d) Gilbert Harris, 60 N. Holden St., N. Adams, Mass.
- (e) Edward Hughes, 1212 Castlewood Ave., Louisville, Ky.
- (f) Merton T. Meade, 819 Wyandotte St., Kansas City, Mo. (Stromberg-Carlson Converter).
- (g) Martin Olthoff, 212 N. 16th, Independence, Kans. (REM69).
- (h) Benjamin Peet, 352 Pleasant Ave., New York, N. Y.
- (i) David Schaller, Biggs Hospital, Ithaca, N. Y.
- (j) Jack Siringo, 1451 Lincoln Ave., Lakewood, Ohio.
- (k) Dale Smith, Route 3, Box 536, Eugene, Ore.
- (l) Al Steinmetz, 125 W. 27th St., Bayonne, N. J. (RCA-ACR 136).
- (m) Hadley Wilcox, 623 W. 40th Place, Los Angeles, Calif. (Tiffany Tone).
- (n) William Wood, 817½ Lake St., Oak Park, Ill (Zenith 10-S-160).

Sidelights on Linton Wells, author, adventurer and NBC commentator: Has circumnavigated the globe nine times and visited all but five countries of the world . . . Twelve foreign nations have honored him with decorations and three countries have given him commissions in their armies . . . Has written four books including the current best seller, *Blood On the Moon*.

Herbert J. Sadler, organist on the CBC Sunday night feature, "The Choristers", is already well-known to Canadian radio audiences as the organist of "The Vesper Hour", a national network programme for over three years. He is a charter member of the Winnipeg Chapter of the Canadian College of Organists, and was the first Winnipeg organist to obtain the associate degree of the College.

## Pitcairn Isle

(Continued from Page 12)

meat and other necessities from steamers plying in the Australian trade lanes.

Young has made it his task to arrange with shipmasters to stop at some near distance from the island. He talks with vessels within a 400 mile radius of the tiny isle and has, on occasion, received messages from vessels 1000 miles away. Radiomen regard this as a remarkable feat considering the age of his equipment.

Pitcairn Island is known to radio operators who have heard of it as an amateur's paradise. The nearest automobile interference is 1,000 miles away; and except for PITC's lone storage battery, electricity is unknown on the island. Other interference is at a minimum. PITC is housed in a tiny, iron roofed shack next to Young's home and maintains a watch of more than 10 hours daily.



*Broadcasting House, London. This new building houses the studios and offices of the British Broadcasting Corp. Programs originating in this building are heard throughout the entire world through the Empire Shortwave Service.*

# Ultra-High Frequencies Allocated

**A**S A RESULT of experimentation during the past few years, the Federal Communications Commission has decided to provide allocations of frequencies to various classes of service in the newly developed portion of the radio spectrum from 25,000 kilocycles to 300,000 kilocycles. Heretofore the rules have been confined to that portion of the radio band from 10 kcs. to 25,000 kcs. only.

The new allocation is covered in Orders No. 18 and No. 19. Order No. 18 concerns allocation from 10 to 30,000 kilocycles. No changes have been made in this part of the spectrum, except that the band from 25,600 to 26,600 kcs. has been set aside for broadcasting.

Order No. 19 covers the allocation of frequencies from 30,000 to 300,000 kcs. All the frequencies in this range, except the amateur band between 56,000 and 60,000 kcs., are assigned to specific services for the first time. All the outstanding licenses in this frequency range, except amateur and point-to-point communication in Hawaii, are for experimental services.

Seven channels between 44,000 and 108,000 kcs. are made available for the assignment of television stations. Television broadcast is also assigned twelve channels between 156,000 and 300,000 kcs. Each television channel is 6 megacycles (6000 kcs.) wide, and provides for the picture broadcast as well as the accompanying synchronized sound.

In the band 41,020 to 43,980 kcs., 75 channels are made available for assignment to aural broadcast stations.

Sixteen channels for relay broadcast stations are provided in the band from 30,830 to 39,820 kcs. These channels will enable a continuance

of the existing stations, as well as provide additional facilities for the growth of relay broadcast service. This number of channels and limited interference range is such that it will be possible to license every regular broadcast station for two relay stations in this band, the frequencies, of course, being available only on a shared basis.

## Police Service

The allocation of frequencies between 30,000 and 40,000 kcs. provides 29 frequencies for assignment to police service. Of these frequencies, 25 will be available to municipal and county government and four to state police agencies. The frequencies will be assigned on a shared basis.

In this same band (30,000-40,000), four frequencies have been set aside primarily for use in instructing student airplane pilots during initial solo flights.

Other services which have been assigned frequencies on these ultra-high bands are the Forestry Service, Mobile Press Service, Geophysical and Motion Picture Service, Coastal and Ship Harbor, Special Emergency, Marine Fire and other services.

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Sidelights on Ted Fio-Rito, music conductor of the new Jack Haley show on NBC: Hobby is medicine and he reads everything on the subject he can lay his hands on . . . Hobnobs with physicians and surgeons and occasionally crashes an operation . . . Is fond of a pet canary he calls "Mr. Peebles" . . . And proud of a night club piano painted white and autographed by more than 2,000 celebrities with whom he has worked.

# The Frequency Checks

In order to include many of the new stations which have recently come on the air, the engineers of the Federal Communications Commission have revised their list of monthly frequency check-broadcasts. The latest schedule, with times given in Eastern Standard, follows:

## The Second Monday

2:00-2:20	WLNH	1310	Laconia, N. H.
	WJBO	1420	Baton Rouge, La.
2:10-2:30	WBRB	1210	Red Bank, N. J.
	WHBB	1500	Selma, Ala.
2:20-2:40	WMAS	1420	Springfield, Mass.
	WIOD	610	Miami, Fla.
2:30-2:50	WWRL	1500	Woodside, N. Y.
	WJBW	1200	New Orleans, La.
2:40-3:00	WOKO	1430	Albany, N. Y.
	WMBR	1370	Jacksonville, Fla.
2:50-3:10	WCAX	1200	Burlington, Vt.
	WOPI	1500	Bristol, Tenn.
3:00-3:20	WMBO	1310	Auburn, N. Y.
	WMSD	1420	Sheffield, Ala.
3:10-3:30	WOC	1370	Davenport, Ia.
	WCAD	1220	Canton, N. Y.
	WRGM	1210	Grenada, Miss.
3:20-3:40	KWLC	1270	Decorah, Ia.
	WMBQ	1500	Brooklyn, N. Y.
	WNBR	1430	Memphis, Tenn.
3:30-3:50	KFPW	1210	Fort Smith, Ark.
	WDBO	580	Orlando, Fla.
	WMFF	1310	Plattsburg, N. Y.
3:40-4:00	KABC	1420	San Antonio, Tex.
	WQDM	1390	St. Albans, Vt.
	WSMB	1320	New Orleans, La.
3:50-4:10	WFAS	1210	White Plains, N. Y.
	WHEF	1500	Kosciusko, Miss.
4:00-4:20	KFDM	560	Beaumont, Tex.
	KLS	1280	Oakland, Calif.
	WAGF	1370	Dothan, Ala.
	WCAP	1280	Asbury Park, N. J.
4:10-4:30	KCRJ	1310	Jerome, Ariz.
	KMLB	1200	Monroe, La.
	KYOS	1040	Merced, Calif.
4:20-4:40	KLUF	1370	Gaiveston, Tex.
	KGDM	1100	Stockton, Calif.
	WDEV	550	Waterbury, Vt.
	WDNC	1500	Durham, N. C.
4:30-4:50	KROC	1310	Rochester, Minn.
	KGAR	1370	Tucson, Ariz.
	KALB	1210	Alexandria, La.
4:40-5:00	KOVC	1500	Valley City, N. D.
	KROY	1210	Sacramento, Calif.
	WBNO	1200	New Orleans, La.
4:50-5:10	KEUB	1420	Price, Utah
	KRE	1370	Berkeley, Calif.
	WLAK	1310	Lakeland, Fla.
5:00-5:20	KBST	1500	Big Spring, Tex.
	KIEM	1450	Eureka, Calif.
	WFOY	1210	St. Augustine, Fla.
5:10-5:30	KDON	1210	Monterey, Calif.
	WMIN	1370	St. Paul, Minn.
	WTAL	1310	Tallahassee, Fla.
5:20-5:40	KTRH	1290	Houston, Texas.
	KUMA	1420	Yuma, Ariz.
	WAIR	1250	Winston-Salem, N. C.
5:30-5:50	KFGQ	1370	Boone, Ia.
	KWG	1200	Stockton, Calif.
	WGCM	1210	Gulfport, Miss.
5:40-6:00	KGMB	1320	Honolulu, T. H.
5:50-6:10	KGLO	1210	Mason City, Ia.
	KVCV	1200	Redding, Calif.
6:10-6:30	KADA	1200	Ada, Okla.

## The Second Tuesday

2:00-2:20	WBAX	1210	Wilkes Barre, Pa.
2:10-2:20	WDAS	1370	Philadelphia, Pa.
2:20-2:40	WBBL	1210	Richmond, Va.
2:30-2:50	WFBG	1310	Altoona, Pa.
2:40-3:00	WMBG	1210	Richmond, Va.
2:50-3:10	WEER	1310	Buffalo, N. Y.
3:00-3:20	KDAL	1500	Duluth, Minn.
	WLVA	1200	Lynchburg, Va.
3:10-3:30	KPAC	1260	Port Arthur, Tex.
	WBTM	1370	Danville, Va.
3:20-3:40	WKRC	550	Cincinnati, Ohio
	WHEC	1430	Rochester, N. Y.
3:30-3:50	WNAD	1010	Norman, Okla.
	WMBC	1420	Detroit, Mich.
	WRAK	1370	Williamsport, Pa.
3:40-4:00	KFVS	1210	Cape Girardeau, Mo.
	WJAC	1310	Johnstown, Pa.
3:50-4:10	WTA W	1120	College Station, Tex.
	WBNS	1430	Columbus, Ohio
	WBNY	1370	Buffalo, N. Y.
4:00-4:20	WCOL	1210	Columbus, Ohio
	WBRE	1310	Wilkes Barre, Pa.
4:10-4:30	KLPM	1240	Minot, N. Dak.
	WPAR	1420	Parkersburg, W. Va.
	WPAY	1370	Portsmouth, Ohio
4:20-4:40	KRMD	1310	Shreveport, La.
	WOMT	1210	Manitowoc, Wis.
	WSYR	570	Syracuse, N. Y.
4:30-4:50	KGCA	1270	Decorah, Ia.
	WCLE	610	Cleveland, Ohio
	WBNF	1500	Binghamton, N. Y.
4:40-5:00	KTEM	1370	Temple, Tex.
	KGBU	900	Ketchikan, Alaska
	WGH	1310	Newport News, Va.
4:50-5:10	KGVO	1260	Missoula, Mont.
	KRLH	1420	Midland, Tex.
	WHK	1390	Cleveland, Ohio
	WWSW	1500	Pittsburgh, Pa.
5:00-5:20	KGCX	1450	Wolf Point, Mont.
	KRMC	1370	Jamestown, N. D.
	WSAY	1210	Rochester, N. Y.
	WSPD	1340	Toledo, Ohio
5:10-5:30	KAST	1370	Astoria, Ore.
	KNET	1420	Palestine, Tex.
	WAVE	940	Louisville, Ky.
5:20-5:40	KCMO	1370	Kansas City, Mo.
	KFJI	1210	Klamath Falls, Ore.
	WXYZ	1240	Detroit, Mich.
5:30-5:50	KIDW	1420	Lamar, Colo.
	KPQ	1500	Wenatchee, Wash.
	WGAR	1450	Cleveland, Ohio
5:40-6:00	KFIO	1120	Spokane, Wash.
	KQV	1380	Pittsburgh, Pa.
	WCAT	1200	Rapid City, S. Dak.
5:50-6:10	KLAH	1210	Klamath Falls, N. Mex.
	KORE	1420	Eugene, Ore.
6:00-6:20	KOOS	1200	Marshfield, Ore.
	WLBL	900	Stevens Point, Wis.

## The Second Wednesday

2:00-2:20	WFMFJ	1420	Daytona Beach, Fla.
2:10-2:30	WAIM	1200	Anderson, S. C.
2:20-2:40	KVOL	1310	Lafayette, La.
2:30-2:50	WHBQ	1370	Memphis, Tenn.
2:40-3:00	WKAQ	1240	San Juan, P. R.
2:50-3:10	WSJS	1310	Winston-Salem, N. C.
3:00-3:20	WCPO	1200	Cincinnati, Ohio
	WMFD	1370	Wilmington, N. C.
3:10-3:30	KFIZ	1420	Fond du Lac, Wis.
	WPAX	1210	Thomasville, Ga.
3:20-3:40	KOKO	1370	La Junta, Colo.
	WCLO	1200	Janesville, Wis.
	WRDW	1500	Augusta, Ga.
3:30-3:50	WQBC	1360	Vietsburg, Miss.
3:40-4:00	RAND	1310	Corsicana, Texas
	KPLC	1500	Lake Charles, La.
	WHBC	1200	Canton, Ohio

3:50-4:10	KARK	890	Little Rock, Ark.
	WGPC	1420	Albany, Ga.
4:00-4:20	KFJZ	1370	Fort Worth, Tex.
	WBHU	1210	Anderson, Ind.
	WJNO	1200	W. Palm Beach, Fla.
4:10-4:30	WBEO	1310	Marquette, Mich.
	WCOC	880	Meridian, Miss.
	WLB	1250	Minneapolis, Minn.
4:20-4:40	KSO	1430	Des Moines, Ia.
	WKEU	1500	Giffin, Ga.
	WOSU	570	Columbus, Ohio
4:30-4:50	KALB	1210	Alexandria, La.
	WEXL	1310	Royal Oak, Mich.
	WHLB	1370	Virginia, Minn.
4:40-5:00	KPLT	1500	Paris, Tex.
	WJMS	1420	Ironwood, Mich.
	WJRD	1200	Tuscaloosa, Ala.
4:50-5:10	KFXR	1310	Oklahoma City, Okla.
	WBIG	1440	Greensboro, N. C.
	WTAX	1210	Springfield, Ill.
5:00-5:20	KFJB	1260	Marshalltown, Ia.
	WEOA	1370	Evansville, Ind.
5:10-5:30	KPDN	1310	Pampa, Tex.
	WDZ	1020	Tuseota, Ill.
5:20-5:40	KELD	1370	Eldorado, Ark.
	WAYX	1200	Waycross, Ga.
	WKBN	570	Youngstown, Ohio
5:30-5:50	KDLR	1210	Devils Lake, N. D.
	WADC	1320	Akron, Ohio
5:40-6:00	KRBC	1420	Ablene, Tex.
	WSAU	1370	Wausau, Wis.
5:50-6:10	KFPL	1310	Dublin, Texas
	WPAM	1200	South Bend, Ind.
6:00-6:20	KLCN	1290	Blytheville, Ark.
	WELL	1230	Battle Creek, Mich.
6:10-6:30	KGBX	1420	Springfield, Mo.
	WMPC	1200	Lapeer, Mich.
6:20-6:40	KABR	1420	Aberdeen, S. D.
6:30-6:50	KPKJ	1200	Grand Junction, Colo.

#### The Second Thursday

2:00-2:20	WSVS	1370	Buffalo, N. Y.
2:10-2:30	WKOK	1210	Sunbury, Pa.
2:20-2:40	WRAW	1310	Reading, Pa.
2:30-2:50	WJTN	1210	Jamestown, N. Y.
2:40-3:00	WTEL	1310	Philadelphia, Pa.
2:50-3:10	WHIS	1410	Bluefield, W. Va.
3:00-3:20	WQAN	880	Sheraton, Pa.
3:10-3:30	WLEU	1420	Erie, Pa.
3:20-3:40	WBLK	1370	Clarksburg, W. Va.
3:30-3:50	WSAJ	1310	Grove City, Pa.
3:40-4:00	WJBC	1200	Bloomington, Ill.
3:50-4:10	KGKL	1370	San Angelo, Texas
	WHAT	1310	Philadelphia, Pa.
	WLAP	1420	Lexington, Ky.
4:00-4:20	KRIS	1330	Corpus Christi, Tex.
	WHDL	1400	Olean, N. Y.
4:10-4:30	KAWM	1500	Galup, N. M.
	WJIM	1210	Lansing, Mich.
	WBMS	1420	Unlontown, Pa.
4:20-4:40	WBBZ	1200	Ponca City, Okla.
	WBOW	1310	Terre Haute, Ind.
	WRTD	1500	Richmond, Va.
4:30-4:50	WCBS	1420	Springfield, Ill.
	WRA	1370	Mayaguez, P. R.
4:40-5:00	KRRV	1310	Sherman, Tex.
	WTMV	1500	East St. Louis, Ill.
4:50-5:10	KGGM	1230	Albuquerque, N. M.
	WHBF	1210	Rock Island, Ill.
5:00-5:20	KERN	1370	Bakersfield, Calif.
	KGKO	570	Wichita Falls, Tex.
	WTRC	1310	Elkhart, Ind.
5:10-5:30	KGFI	1500	Brownsville, Tex.
	KTRB	740	Modesto, Calif.
	WWAE	1200	Hammond, Ind.
5:20-5:40	KFYO	1310	Lubbock, Tex.
	KJBS	1070	San Francisco, Calif.
	WIBM	1370	Jackson, Mich.
5:30-5:50	KGHI	1200	Little Rock, Ark.
	KXO	1500	El Centro, Calif.
	WALR	1210	Zanesville, Ohio
5:40-6:00	KGHF	1320	Pueblo, Colo.
	KHLS	1260	Chico, Calif.

5:50-6:10	WDWS	1370	Champaign, Ill.
	KGKB	1500	Tyler, Texas
	KSUN	1200	Lowell, Ariz.
	WBCM	1410	Bay City, Mich.
6:00-6:20	KGFL	1370	Roswell, N. M.
6:10-6:30	KGIW	1420	Alamosa, Colo.
	KHBC	1400	Hilo, T. H.
6:20-6:40	KVEC	1200	San Luis Obispo, Calif.
	WGL	1370	Fort Wayne, Ind.
6:30-6:50	KSUB	1310	Cedar City, Utah

#### The Second Friday

2:00-2:20	WGNY	1210	Newburgh, N. Y.
2:10-2:30	WCNW	1500	Brooklyn, N. Y.
2:20-2:40	WGBB	1210	Freeport, N. Y.
2:30-2:50	WABY	1370	Albany, N. Y.
2:50-3:10	WSYB	1500	Rutland, Vt.
3:00-3:20	WABI	1200	Bangor, Me.
3:20-3:40	WIBX	1200	Utica, N. Y.
3:30-3:50	KASA	1210	Elk City, Okla.
	WAGM	1420	Presque Isle, Me.
3:40-4:00	KWOS	1290	Jefferson City, Mo.
	WNBZ	1290	Saranac Lake, N. Y.
3:50-4:10	WJBK	1500	Detroit, Mich.
	WMBH	1420	Joplin, Mo.
	WRDO	1370	Augusta, Me.
4:00-4:20	KIUL	1210	Garden City, Kans.
	WTHT	1200	Hartford, Conn.
4:10-4:30	KICA	1370	Clovis, N. M.
	WCAZ	1070	Carthage, Ill.
	WNLC	1500	New London, Conn.
4:20-4:40	WMFG	1210	Hibbing, Minn.
4:30-4:50	KIUP	1370	Durango, Colo.
	WPAD	1420	Paducah, Ky.
4:40-5:00	KNOW	1500	Austin, Tex.
	WEMP	1310	Milwaukee, Wis.
4:50-5:10	WEW	760	St. Louis, Mo.
	WGRC	1370	New Albany, Ind.
5:00-5:20	KIUN	1420	Pecos, Tex.
	WEBQ	1210	Harrisburg, Ill.
5:10-5:30	KGEK	1200	Sterling, Colo.
	WCM1	1310	Ashland, Ky.
5:20-5:40	KMAC	1370	San Antonio, Tex.
	WJW	1210	Akron, Ohio
5:30-5:50	WLB	1200	St. Louis, Mo.
	WLCB	1310	Muncie, Ind.
5:40-6:00	KTOK	1370	Oklahoma City, Okla.
	WKBB	1500	E. Dubuque, Ill.
5:50-6:10	KANS	1210	Wichita, Kans.
	WBYS	1200	Green Bay, Wis.
6:00-6:20	WACO	1420	Waco, Tex.
6:10-6:30	WJBL	1200	Decatur, Ill.
6:20-6:40	KRQA	1310	Santa Fe, N. M.
	WHDF	1370	Calumet, Mich.
6:30-6:50	KGDE	1200	Fergus Falls, Minn.

#### The Second Saturday

2:00-2:20	WMFR	1200	High Point, N. C.
2:10-2:30	WMFO	1370	Decatur, Ala.
2:20-2:40	WSOC	1210	Charlotte, N. C.
2:30-2:50	WTJS	1310	Jackson, Tenn.
2:40-3:00	WSIX	1210	Nashville, Tenn.
2:50-3:10	WROL	1310	Knoxville, Tenn.
3:00-3:20	KOTN	1500	Pine Bluff, Ark
	WBLV	1210	Lima, Ohio
	WQAM	560	Miami, Fla.
3:10-3:30	KWVO	1370	Sheridan, Wyo.
	WPRP	1420	Ponce, P. R.
3:20-3:40	KGCU	1240	Mandan, N. Dak.
	WIBU	1210	Poynette, Wis.
	WNEI	1290	San Juan, P. R.
3:30-3:50	KXYZ	1440	Houston, Tex.
	WAML	1310	Laurel, Miss.
	WKBV	1500	Richmond, Ind.
3:40-4:00	KRGV	1260	Westaco, Tex.
	WFOR	1370	Hattiesburg, Miss.
3:50-4:10	KNEL	1500	Brady, Tex.
	WNEE	1420	Rocky Mount, N. C.
	WGBF	630	Evansville, Ind.
4:00-4:20	KVSO	1210	Ardmore, Okla.
	WFDF	1310	Flint, Mich.
	WFTC	1200	Kinston, N. C.

4:10-4:30	KFQD	780	Anchorage, Alaska
	KONO	1370	San Antonio, Tex.
	WKBZ	1500	Muskegon, Mich.
4:20-4:40	KRLC	1390	Lewiston, Idaho
	KTSM	1310	El Paso, Tex.
	WBHP	1200	Huntsville, Ala.
4:30-4:50	KOCA	1210	Kilgore, Tex.
	KUJ	1370	Walla Walla, Wash.
4:40-5:00	KCMC	1420	Texarkana, Texas
	KRNR	1500	Roseburg, Ore.
	WGTM	1310	Wilson, N. C.
4:50-5:10	KEEN	1370	Seattle, Wash.
	KWTN	1210	Watertown, S. Dak.
5:00-5:20	KGFF	1420	Shawnee, Okla.
	KIT	1310	Yakima, Wash.
5:10-5:30	KBTM	1200	Jonesboro, Ark.
	KRKO	1370	Everett, Wash.
5:20-5:40	KFRO	1370	Longview, Tex.
	KGEZ	1310	Kalispel, Mont.
5:30-5:50	KBIX	1500	Muskogee, Okla.
	KFXD	1200	Nampa, Idaho
5:40-6:00	KFJM	1410	Grand Forks, N. D.
	KXRO	1310	Aberdeen, Wash.
5:50-6:10	KGY	1210	Olympia, Wash.
6:00-6:20	KINY	1310	Juneau, Alaska
6:10-6:30	KMED	1410	Medford, Ore.
6:20-6:40	KVOS	1200	Bellingham, Wash.

### ZNS, Nassau

A letter from the Superintendent of Telegraphs gives complete information concerning the new broadcasting station in Nassau, Bahamas.

Station ZNS transmits on 540 kcs with 400 watts power, on two daily schedules. The first transmission is from 1:30 to 1:45 pm, EST, and the second from 8:30 to 9:30 pm, EST. Programs from the shortwave station at Daventry are sometimes picked up and relayed at 8:00 pm.

Reports are requested and will be acknowledged. The address is Superintendent of Telegraphs, Box 48, Nassau N. P., Bahamas.

### Always Prepay Postage

When writing to overseas stations it is customary to enclose return postage in the form of International Reply coupons. These can be procured from any Post Office for nine cents each, and can be exchanged in any country in the Universal Postal Union for postage stamps on a first class letter to this country. Contrary to some published reports, *all countries* are members of the



*Sheilah Graham, London-born actress, authoress and columnist. Miss Graham studied to be an actress at the Royal Academy of Dramatic Arts, London, and did her first writing in the London Daily Mail.*

UPU except Laccadive and Maldive Island, the State of Alaouites, Northern Rhodesia, and Tonga. Radio stations in which we are interested do not exist in any of these localities.

### The Spanish Alphabet

A, Ah	O, Oh
B, Bay	P, Pay
C, Say or thay	Q, Koo
D, Day	R, Air-ray
E, Ay	S, Ess-say
F, Ef-fay	T, Tay
G, Hay	U, Oo
H, Ah-chay	V, Vay
I, Ee	W, Doo-ble-vay
J, Ho-tah	X, eckis; ay-kis;
K, Kah	ek-key
L, El-lay	Y, Yay
M, Em-may	Z, Zed.
N, En-nay	

# The Biography of Julius Twisdile

**T**O BEGIN with, Julius is not an ordinary person. At the lovable and tender age of three, when most infants are fumbling with toys, Julius was patiently "pushing the slider" of a self-made crystal set. The neighbors marveled at his prowess and one of the local newspapers gave him front page publicity. All in all, everyone was of the opinion that someday Julius would take his place along with Marconi, Amlie and other great names in radio.

However, greatness was not meant for our hero, for Julius was bitten by the DX bug on his fifth birthday. It seems that he was listening to a local station and another station a thousand miles distant suddenly put in its appearance on an adjoining channel. Although the signals were not strong and identification seemed virtually impossible, Julius stayed at the controls and after three hours of steady vigilance finally succeeded in learning the call and location of the station. With a cry of victory, he ran to tell mamma and papa of his catch, but alas, in his excitement, he had forgotten to remove his headphones and his set lay dashed to bits upon the floor.

Fortunately, Julius had a big-hearted papa who consented to purchase him a two tube Blooper so that he could continue his conquest of the ether. In the four years following, Julius heard five hundred and six broadcast stations and made a specialty of collecting pretty cards and letters of confirmation from the stations. Julius was quite revolutionary in his system of verifying. Instead of reporting but once requesting a verification, he attempted to secure twenty-four con-



*Martha Tilton's rhythmic vocal interpretations of Benny Goodman's orchestra during the Swing School broadcasts, a part of the Camel Caravan program. Miss Tilton was "discovered" by Goodman when she went to Hollywood to join the Oakie College Glee Club.*

firmations from each station heard—one for each hour of the day. In the Spring of 1928 Julius had eleven thousand and thirty-seven veries.

Julius received great criticism from members of the DX fraternity, who pointed out that it was foolish for him to verify a station twenty four times when one veri was sufficient to prove definite reception of any station. Julius, however, was quite satisfied with his system, maintaining that a station was received under different conditions every hour of the day. He also stated that a DXer who counted a transmitter, operating under two different calls, as two stations; or one who counted a slight change in frequency, a change of studio loca-

tion or a change of call letters as new stations was by no means any more efficient than was he.

In the fall of 1928, the Twisdile heir became interested in short wave reception and proceeded to log stations from all corners of the world—broadcasting, commercial phone, amateur and what have you. Julius found this type of DXing far more interesting and educational than his earlier love, and some claim that he is able to converse in five languages with a reading knowledge of several more. He is well acquainted with the political setup, the geography and the economics of almost every country in the world, and it has been said that he is studying for the diplomatic service.

Julius was also very original in tabulating locations of stations heard. In the first place he never bothered about verifying all continents because he found that in his huge collection he had but one confirmation from Antarctica and was very much ashamed to admit that he had but one VAC. In the second place his method of counting countries was most unique. Every state in the United States, every province in Canada; in fact anyplace which possessed a border was counted as a different country. To say the least, Julius' log of verified countries reached amazing proportions and it is doubtful if any DXer in the entire world could have "touched him."

As you can probably guess, the SWL's Inc. ridiculed our hero and "poo-pooed" his system, stating that a country should consist of this, that and the other thing. Julius, however, was undaunted and replied that his system was, at least, consistent, and that those who counted Baffin Island, Yucatan, Tasmania and the Aleutian Islands as countries the same as The United States, were, in a great degree, far more inconsistent than he.

## Tommy Riggs

Tommy Riggs, whose vocal chords harbor the popular little radio star, "Betty Lou," modestly began life in Pittsburgh, Pa., on October 21, 1908.

His father was superintendent of a steel firm in the aptly named "Smoky City." Young Tommy could only think of two things—he wanted to be a football star and an actor. Unlike most childhood ambitions, his were later fulfilled.

Always an agreeable young man, Tommy didn't revolt when his parents suggested he study music. He took voice and piano lessons, which have since stood him in good stead as a radio entertainer.

During his freshman year in high school, he appeared in numerous class dramatic productions but never talked like "Betty Lou" except when entertaining at parties. The little girl voice didn't seem extraordinary to him then, though it always provoked laughter among his friends.

"Betty Lou" was again sidetracked when Tommy went to Bellefonte Academy. The young man with two voices displayed a greater interest in boxing than in entertaining there.

A year at Brown University was followed by study and football at Ohio State. While being rushed by a fraternity at the latter institution one of the "brothers" called Riggs on the phone to ask him over to dinner at the house. Tommy had "Betty Lou" do the answering.

"My daddy will be glad to come," said the child-like voice.

When Tommy arrived, the upper-classman exclaimed, "Why, I didn't know you were old enough to have a youngster!"

"I'm not," said Tommy.

Riggs then changed his voice to the higher register, and "Betty Lou"

later became the mascot of the house.

Tommy got out of college at the height of the depression but managed somehow to land a job in Pittsburgh in a business firm. The lure of the theater was still in his blood and business seemed awfully dull to him.

He voluntarily gave up his position for a less lucrative one in a local vaudeville theater. He became a singing master-of-ceremonies, just a few blocks from the theater where Dick Powell was doing the same thing.

"Betty Lou's" radio debut occurred as a result of a mistake. Tommy was rehearsing a comedy act with a radio partner. Things went from bad to worse with the script seeming to get less funny every minute. When he lost his place, Riggs expressed his annoyance in the "Betty Lou" voice.

The producer of the show shouted, "That's great. Where did you get that voice? Use it in the skit."

Tommy did. He titled the show "Tom and Betty," and it remained popular with WCAE listeners for several years before Riggs transferred his act to KDKA. The program got an enthusiastic reception and received the largest fan-mail response ever accorded an air show.

"I had an amusing experience in Pittsburgh," Tommy says. "I went on the air at eleven o'clock at night and one night a labor department representative called on me and demanded I send 'Betty' home to bed where she belonged at that hour. It took me quite a little while to convince them 'Betty' was only my idea child, but at last they believed me and left."

An offer came from Cleveland to do a 15 minute commercial program, five-times-a-week. It looked so good, the "Tom and Betty" act moved to a new locale, broadcasting over WTAM. The same enthusiastic re-

sponse greeted the one man "pair" with a woman writing in begging to adopt "Betty." It took some tall letter-writing on the part of Riggs to assure the lady "Betty" was really an imaginary character.

Another offer over a more powerful station came to Tommy's attention and once more he packed up bag and baggage, heading this time for Cincinnati and WLW. He arrived with the flood, his first program being the longest and the most difficult he has ever gone through—he had "Betty" appeal for aid to flood-sufferers at intervals during one entire night and morning. The response was tremendous with the people of Cincinnati ever grateful.

Two months later when Tommy offered his photograph to radio listeners 32,000 requests came in immediately. Cincinnati looked mighty good to Tommy then and he felt he wanted to stay on. Besides, he had moved from city to city so often he was about ready to settle down!

Therefore, when he was asked to go to New York to audition for Rudy Vallee's Hour, he got around the trip by sending a set of records.

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Senator Fishface and Professor Figgibottle, daffy comics heard over NBC on Sunday afternoons, have just been signed for another two years by the NBC Artists Service.

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Betty Winkler, pretty star of the NBC dramatic serial, *Girl Alone*, is creator of a new evening gown that caused a sensation in the fashion world. The Winkler creation is a flouncy, white chiffon evening gown with a photographic reproduction of the Chicago skyline ten inches high around the bottom. The hem was sensitized with a photographic solution and the pictures printed in the same manner as regular photographic prints are made.



## THE BROADCASTING STATIONS OF OCEANIA

This completely revised list of Australasian stations is compiled from official information supplied by A. I. Breen of Dunedin, New Zealand, and the Postmaster-General's Department of Melbourne, Australia.

Frequencies are given in first column in kilocycles. Call letters are in second column, and power in watts in third column.

The abbreviations are N. Z. for New Zealand, P. I. for the Philippine Islands, and for the Australian states:

F.C.T., Federal Capital Territory  
N.S.W., New South Wales  
Qsld., Queensland  
S. A., South Australia

Tas., Tasmania  
Vic., Victoria  
W. A., West Australia

550	2CR	10000	Cumnock, N.S.W.	1040	5PI	2000	Crystal Brook, S. A.
560	6WA	10000	Minding, W. A.	1050	2CA	500	Canberra, F. C. T.
570	2YA	60000	Wellington, N. Z.	1060	2BH	100	Broken Hill, N.S.W.
580	3WV	10000	Horsham, Vic.	1070	6WB	2000	Katanning, W. A.
600	FJP	500	Noumea, New Caledonia	1080	2AD	100	Armidale, N.S.W.
	7ZL	1000	Hobart, Tas.		4MK	100	Mackay, Qsld.
610	KZRM	50000	Manila, Philippines		7HT	300	Hobart, Tas.
	2FC	3500	Sydney, N.S.W.	1090	1ZB	150	Auckland, N. Z.
620	3AR	4500	Melbourne, Vic.		3LK	2900	Lubeck, Vic.
630	4QN	7000	Clevedon, Qsld.	1100	4LG	500	Longreach, Qsld.
640	5CK	7500	Crystal Brook, S. A.		7LA	300	Launceston, Tas.
650	1YA	10000	Auckland, N. Z.	1110	2UW	750	Sydney, N.S.W.
660	2DU	100	Dubbo, N.S.W.	1120	2ZB	1000	Wellington, N. Z.
	7BU	100	Burnie, Tas.		4BC	1000	Brisbane, Qsld.
670	2CO	7500	Corowa, N.S.W.	1130	6ML	500	Perth, W. A.
680	2HR	300	Singleton, N.S.W.	1140	2HD	500	Newcastle, N.S.W.
	4ZP	100	Invercargil, N. Z.		4YO	150	Dunedin, N. Z.
690	6WF	3500	Perth, W. A.	1150	2WG	2000	Wagga, N.S.W.
700	2NR	7000	Grafton, N.S.W.		2ZM	15	Gisborne, N. Z.
710	7NT	7000	Kelso, Tas.	1160	2KA	200	Katoomba, N.S.W.
720	3YA	10000	Christchurch, N. Z.		4TO	200	Townsville, Qsld.
	6GF	2000	Kalgoorlie, W. A.	1170	2NZ	2000	Inverell, N. S. W.
730	5CL	4000	Adelaide, S. A.	1180	3KZ	600	Melbourne, Vic.
740	2BL	3000	Sydney, N.S.W.	1190	2CH	1000	Sydney, N. S. W.
750	KGU	2500	Honolulu, Hawaii	1200	3YL	500	Christchurch, N. Z.
760	2YB	100	New Plymouth, N. Z.		5KA	500	Adelaide, S. A.
770	3LO	3500	Melbourne, Vic.	1210	2GF	100	Grafton, N. S. W.
780	KZEG	1000	Manila, Philippines		3YB	100	Warrnambool, Vic.
790	4YA	10000	Dunedin, N. Z.		6KG	500	Kalgoorlie, W. A.
800	4QG	2500	Brisbane, Qsld.	1220	4AK	2000	Oakey, Qsld.
820	2ZH	65	Napier, N. Z.		4ZB	1000	Dunedin, N. Z.
830	3GI	7000	Longford, Vic.	1230	2NC	2000	Newcastle, N. S. W.
840	2YC	5000	Wellington, N. Z.	1240	2ZL	20	Hastings, N. Z.
850	5RM	1000	Renmark, S. A.		3TR	1000	Sale, Vic.
860	4AY	500	Ayr, Qsld.		6IX	500	Perth, W. A.
	7HO	120	Hobart, Tas.	1250	1ZM	175	Manurewa, N. Z.
870	2GB	1000	Sydney, N.S.W.	1260	3SR	2000	Shepparton, Vic.
880	1YX	150	Auckland, N. Z.	1270	2SM	1000	Sydney, N. S. W.
	2XL	100	Cooma, N.S.W.	1280	3AW	600	Melbourne, Vic.
	6PR	500	Applecross, W. A.		4ZC	20	Cromwell, N. Z.
900	KZIB	1000	Manila, P. I.	1290	4BK	500	Brisbane, Qsld.
	2LM	500	Lismore, N.S.W.	1300	2TM	2000	Tamworth, N. S. W.
	2ZP	250	Wairoa, N. Z.	1310	1ZJ	65	Auckland, N. Z.
	7QT	100	Queenstown, Tas.		5AD	500	Adelaide, S. A.
910	4RK	2000	Rockhanton, Qsld.	1320	KGMB	1000	Honolulu, Hawaii
920	ZJV	400	Suva, Fiji		3BA	500	Ballarat, Vic.
	2ZR	50	Nelson, N. Z.	1330	3SH	100	Swan Hill, Vic.
930	3UZ	600	Melbourne, Vic.		4RO	50	Rockhampton, Qsld.
940	3ZR	400	Greyhound, N. Z.	1340	4WK	100	Warwick, Qsld.
950	2UE	1000	Sydney, N.S.W.		5SE	100	Mount Gambier, S. A.
960	2ZF	250	Palmerston North, N. Z.	1350	3GL	100	Geelong, Vic.
	5DN	500	Adelaide, S. A.	1360	3MA	100	Mildura, Vic.
970	3BO	200	Bendigo, Vic.		4PM	100	Port Moresby, Papua
980	2KM	100	Kempsey, N.S.W.	1370	2MO	100	Gunnedah, N. S. W.
	2ZJ	200	Gisborne, N. Z.	1380	4BH	1000	Brisbane, Qsld.
	6AM	2000	Northam, W. A.	1390	2GN	200	Goulburn, N. S. W.
990	2GZ	2000	Orange, N.S.W.		4CA	200	Cairns, Qsld.
1000	3UL	200	Warragul, Vic.		6PM	100	Fremantle, W. A.
	4GR	500	Toowoomba, Qsld.	1400	KHBC	250	Hilo, Hawaii
1010	3HA	750	Hamilton, Vic.		2Z0	200	Palmerston North, N. Z.
	4ZD	35	Dunedin, N. Z.		4MB	100	Maryborough, Qsld.
	4ZM	60	Dunedin, N. Z.	1410	2KO	500	Newcastle, N. S. W.
1020	2KY	1000	Sydney, N.S.W.	1420	3XY	600	Melbourne, Vic.
1030	3DB	600	Melbourne, Vic.	1430	2WL	300	Wollongong, N. S. W.

	3ZB	1000	.....
	4VL	50	Charleville, Qsld.
1440	2QN	100	Deniliquin, N. S. W.
	4IP	100	Ipswich, Qsld.
1450	4ZR	100	Roma, Qsld.
	5TU	100	Murray Bridge, S. A.
1460	7UV	300	Ulverstone, Tas.
1470	2MW	100	Murwillumbah, N. S. W.
	2RG	50	Griffith, N. S. W.
	3ZM	60	Christchurch, N. Z.
1480	2AY	100	Albury, N. S. W.
	4BU	100	Bundaberg, Qsld.
1490	2BE	100	Bega, N. S. W.
	3MB	100	Birchip, Vic.
1500	2BS	100	Bathurst, N. S. W.
	3AK	200	Melbourne, Vic.
1510	YDA	500	Tandjongpriok, Java, N.E. I.

## Arctic and Jungle Linked

**A** REMARKABLE three way conversation spanning the arctic and the tropics was heard over National Broadcasting Company networks on Christmas Eve when scientific expeditions at the North Pole and in the South American jungles exchanged Yuletide greetings with each other and with their respective families assembled in Radio City studios in New York City.

The Holden Expeditions of the American Museum of Natural History, located deep in the Amazonian jungles of British Guiana, and members of the MacGregor Expeditions, located near the North Pole, are both equipped with NBC broadcasting transmitters and both are keeping contact with the outside world through the magic of radio. The Holden group is the first jungle expedition in history to be equipped with radio.

The Holden Expedition is heard through station VP3THE, and the MacGregor Expedition through OX2QY. Both these stations have been heard many times in the 20-meter amateur band.

## Tune for Argentina

**S**OUTH AMERICAN broadcasting stations transmit at the same time as North American stations, and the only time they can be heard is before midnight, EST. Many of the more powerful stations come through, however, and are heard in spite of our own stations.

Station LR10 in Buenos Aires, working on 790 kcs with 10,200 watts, signs off at midnight. LR5 on 830 kcs with 29 kilowatts, signs off nightly at 11:45 pm; this Buenos Aires station is frequently logged through KOA Denver. LR6 in Buenos Aires, on 870 kcs, leaves the air at midnight.

The addresses of these Argentine stations are: LR10, Alberto de Bary y Cia., Florida 570, Buenos Aires. LR5, Alfredo B. Dougall, Maipu 462, Buenos Aires. LR6, "Ciudadela," S. A. La Nacion, Santa Fe 2043, Buenos Aires.

Other Argentine stations which should be heard this winter are LR3 on 950, LR1 on 1070, LS2 on 1190, and LS8 on 1230.

LR3, a 39 kilowatt station on 950 kcs, is owned by Jaime Yankelevich, Belgrano 1841, Buenos Aires. This station signs off at thirty minutes past midnight.

LR1, "Radio El Mundo," is perhaps the best known of all South American stations. It transmits on 1070 with 50 kilowatt power. Radio El Mundo is owned by Empresa Editorial Haynes, Ltda., S. A., Maipu 555, Buenos Aires, and transmits daily from 10 am to 11:30 pm, EST.

LS2, 1190 kcs and 30,000 watts, closes down at midnight. The owner is Teodoro Pietro, Bolivar 1356, Buenos Aires.

"Radio Stentor," LS8, works on 1230 kcs with 15 kilowatts, signing off at 11:30 pm EST.

# When to Get the DAY'S NEWS

## ● ● ● Network News Flashes

**E-Midn't., C-11:00 p.m., M-10:00, P-9:00**

**Don Lee System, Daily**

KDB KDON KPFC KFXM KGB KGDM KHJ KPFC KQW KVQE KXO

**E-1:00a.m., C-Midn't., M-11:00 p.m., P-10:00**

**CBC—Daily**

To CBC Pacific Network

**Don Lee System, Sunday only**

Same stations as at Midnight.

**E-7:30 a.m., C-6:30, M-5:30, P-4:30**  
**Michigan Radio Network, Daily.**  
WXYZ

**E-9:25 a.m., C-8:25, M-7:25, P-6:25**  
**CBS—Press Radio, Monday through Friday**

CKAC KLRA KMOX WABC WADC WAIM WALA WBIG WCHS WCOC WDAE WDBO WDRC WEEI WESG WFBL WHIO WHP WIBX WJAS WJNO WKBW WLBZ WMAS WMBR WMNN WBNF WOKO WORC WPAR WPG WPRO WQAM WREC WRVA WSBT WSJS

**E-9:40 a.m., C-8:40, M-7:40, P-6:40**  
**NBC Red and Blue, Press Radio, Weekdays**  
To stations available

**E-9:55 a.m., C-8:55, M-7:55, P-6:55**  
**CBS—Press Radio, Sat. and Sunday**  
CKAC KLRA KMOX WABC WADC WAIM WALA WCHS WCOC WDAE WDBJ WDBO WEEI WESG WFBL WFBM WHEC WHIO WIBX WJNO WJRW WJSV WLBZ WMAS WMBR WMNN WBNF WOKO WORC WPAR WQAM WREC WSWA WSFA WSJS WTOG

**E-10:45 a.m., C-9:45, M-8:45, P-7:45**  
**Don Lee System, Daily except Sunday**  
Same stations as at Midnight

**E-11:00 a.m., C-10:00, M-9:00, P-8:00**  
**NBC-Blue—Press Radio, Sunday**  
To stations available  
**NBC-Red—Press Radio, Sunday**  
To stations available.

**E-noon, C-11:00 a.m., M-10:00, P-9:00**  
**Michigan Radio Network, Daily**  
WASH WBCM WELL WFDW WIBM WJIM WKZO WOOD WXYZ

**E-12:15 p.m., C-11:15 a.m., M-10:15, P-9:15**  
**CBS—Edwin C. Hill, Monday through Friday**

KFAB KFH KGKO KLRA KMBC KMOX KNOW KOMA KRLL KRNT KSCJ KTRH KTSR KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WFBL WGR WGST WHAS WHEC WHIO WHP WIBX WISN WJR WJSV WKBW WKBN WKRC WLAC WLBZ WMAS WMAZ

WMBD WMBR WMMN WNAX WBNF WNOX WOC WOKO WORC WPG WPRO WQAM WREC WRVA WSFA WSJS WTOG WWL WWSA

**E-2:00 p.m., C-1:00, M-12:00, P-11:00**  
**CBS—Monday, Wednesday, Friday**

KFAB KFH KLRA KMOX KNOW KOMA KRLL KRNT KSCJ KTRH KTSR KTUL KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDRC WEEI WFBL WFBM WGST WHAS WHEC WHIO WISN WJAS WJR WJSV WKBW WKBW WKRC WLAC WLBZ WMBR WBNF WOKO WORC WPRO WQAM WREC WRVA WWL

**E-3:00 p.m., C-2:00, M-1:00, P-noon**  
**Don Lee System, Saturday**  
Same stations as at Midnight

**E-3:15 p.m., C-2:15, M-1:15, P-12:15**  
**Don Lee Sys., Mon. through Fri.**  
Same stations as at Midnight

**E-5:00 p.m., C-4:00, M-3:00, P-2:00**  
**Michigan Network, Daily**  
WASH WBCM WELL WFDW WIBM WJIM WKZO WOOD WXYZ

**E-5:10 p.m., C-4:10, M-3:10, P-2:10**  
**Blue, Monday through Friday**  
To stations available

**E-5:30 p.m., C-4:30, M-3:30, P-2:30**  
**CBS—Monday, Wednesday, Friday**  
KFBB KFPY KLZ KMBC KNX KOIN KOL KOY KSFO KSL KVI

**E-6:25 p.m., C-5:25, M-4:25, P-3:25**  
**CBS—Press Radio, Thurs. and Sat.**  
Available to entire Network

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**CBC—Sunday only**  
To National Network

**CBS—Press Radio, Mon., Tues., Fri.**  
KFH KLRA KNOW KOMA KSCJ KSL KTRH KWKH WABC WACO WADC WAIM WALA WBIG WBCO WCCO WCOC WDAE WDBJ WDBO WDOD WHEC WISN WJAS WJNO WJR WKBW WKBW WLBZ WMAS WMBR WOC WORC WPAR WQAM WREC WSFA WSJS WTAQ WTOG WWSA

**NBC—Red, Press Radio, Weekdays**  
To all stations available  
**Blue—Saturday only**  
To all stations available

**E-6:40 p.m., C-5:40, M-4:40, P-3:40**  
**CBS—Wednesday only**  
To all stations available

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**NBC-Blue—Lowell Thomas, Mon. through Fri.**

CRCT KDKA WBAL WBZ WBYA WEAN WEBR WFLA WHAM WIOD WJAX WJZ WLW WMAL WOOD WRTD WSPD WSUN WSYR WTAM WXYZ

**Don Lee Sys., Mon. through Fri.**  
Same stations as at Midnight

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**CBC—Monday through Friday**  
To CBC French Network

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**CBS—Boake Carter, Mon., Wed., Fri.**  
KFAB KFH KLRA KMBC KMOX KNOW KOMA KRLL KRNT KTRH KTSR KTUL WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOD WDRC WEEI WFAM WFBL WGR WGST WHAS WHEC WHIO WISN WJAS WJR WJSV WKBN WKRC WLAC WLBZ WMBD WMBR WNOX WOKO WORC WPRO WQAM WREC WRVA WWL

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**Blue—Monday, Thursday**  
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WFIL WHAM WHK WICC WJZ WLS WMAL WMT WREN WSYR WTCN WXYZ

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**Blue—March of Time, Thursday**  
KDKA KECA KERN KFKB KFEL KFSD KGA KGO KJR KLO KMJ KOIL KSO KWG KWK KXYZ WABY WBAL WBZ WBZA WCKY WCOL WEBR WFIL WHAM WJZ WMAL WMPMS WMT WOWO WREN WSPD WSYR WTCN WXYZ

**E-9:45 p.m., C-8:45, M-7:45, P-6:45**  
**Don Lee System, Daily**  
Same stations as at Midnight  
**Michigan Network, daily**  
WASH WBCM WELL WFDW WIBM WJIM WKZO WOOD

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**Blue—Tuesday, Wednesday**  
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WFIL WHAM WHK WICC WJZ WLS WMAL WMT WOWO WREN WSPD WSYR WTCN WXYZ

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**Michigan Radio Network, Daily**  
WXYZ

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**CBC—Daily**  
To National and French Networks  
**Red—Friday only**

KDYL KFI KGW KHQ KOA KOMO KPO KSD KSTP KYW WBBN WCAF WSH WDAF WDEL WEAFF WFER WGY WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**Blue, Sunday, Press Radio**  
Available to Entire Network

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**CBS—Boake Carter, Mon., Wed., Fri.**  
KFPY KLZ KNX KOIN KOL KSFO KSL KVI WFBM

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**Red—Sunday only**  
To all stations available

# 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: E Eastern; C Central; M Mountain; P Pacific

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

## MONDAY

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**

**B — Lowell Thomas**

CRCT KDKA WBAL WBZ WBZA  
WFLA WIOD WJAX WJZ WLW  
WMAL WOOD WRVA WSR WTAM  
WXYZ

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

**C — Poetic Melodies; Jack Fulton**  
WABC WADC WBT WCAO WCAU  
WDRG WEAN WEEI WFBL WGR  
WHEC WHK WJAS WJR WJSV  
WKRC WOKO WSPD WTCO WVVV

**R — Amos 'n' Andy**

KSD KSTP KYW WBNB WCAE  
WCSH WEAF WFBR WGY WHO  
WJAR WLW WNAC WRC WTAG  
WTAM WTCO WWJ

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

**R — Uncle Ezra's Radio Station**

KARK KFYR KGBX KGNO KPRC  
KSTP KTBS KTHS KV00 KYW  
WBAP WBNB WCAE WCKY WCOL  
WCSH WDAF WEBC WEEI WFAA  
WFBC WFBR WFLA WGY WHO  
WIBA WIRE WJAR WKY WMAQ  
WNAC WOAI WOOD WOW WRC  
WTAG WTAM WTCO WTMJ

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

**B — Lum and Abner**

WBZ WBSA WENR WJZ WLW  
WMC WSM WSYR

**M — The Lone Ranger**

WFL WNBW WSYR WOR WXYZ

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**

**C — Boake Carter**

KMBC KMOXKOMA KRLD WABC  
WBMM WBT WCAU WCO WDRG  
WEAN WFBL WGR WHAS WHK  
WJAS WJR WJSV WKRC WNAC

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

**C — Horace Heidt and Orchestra**

KDB KERN KFAB KFBK KFH  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC, KMJ KMOX KOIN KOL  
KRLD KRNT KSL KTRH KTSA  
KTUL KVI KWG WABC WBMM  
WBRC WBT WCAO WCAU WCCO  
WDRG WFBL WBNB WGR WGST  
WHAS WHK WJAS WJR WJSV  
WKRC WLAC WMBR WNAC WNAX  
WOKO WREC WWL

**R — Burns and Allen**

CRCT KYW WBNB WCAE WCSC

WCSH WEAF WFBR WFLA WGY  
WHO WIOD WIRE WIS WJAR  
WJAX WLW WMAQ WNAC WPTF  
WRC WRVA WSOE WTAG WTAM  
WTAR WTCO WWJ

**B — Gen. Hugh Johnson**

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

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

**C — Pick and Pat**

KFAB KMBC WABC WADC WBBM  
WBT WCAO WCAU WDRG WEAN  
WFBL WGR WGST WHEC WHK  
WHP WICC WJAS WJR WJSV  
WKRC WLBS WMAS WNAC WOKO  
WORO WSPD

**R — Voice of Firestone**

CFCF CRCT KFYR KPRC KSD  
KSTP KTBS KV00 KYW WAVE  
WBNB WCAE WCSC WCSH WDAF  
WDAY WEAF WEBC 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 WSOE WTAG  
WTAM WTAR WTCO WTMJ WWJ  
WWNC

**B — Campana's Grand Hotel**

KDKA KFEL KFI KFSD KGA KGO  
KGW KJR KLO KOIL KSO KWK  
WBAL WBZ WBZA WCKY WEAN  
WEBR WFIL WHAM WHK WICO  
WJZ WLS WMAL WMT WOW  
WREN WSPD WSYR WXYZ

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

**B — Philadelphia Symphony**

KFEL KGO KSO KV00 KWK  
KXYW WBAL WBZ WBZA WEAN  
WEBR WENR WFIL WHAM WJTN  
WJZ WLS WMAL WREN WRTD  
WSPD WSYR WTCN WXYZ

**C — Lux Radio Theater**

CFRB GKAC KFAB KFH KFPY  
KLRA KLZ KMBC KMOX KNOW  
KNX KOH KOIN KOL KOMA  
KRLD KRNT KSFO KSL KTRH  
KTSA KTUL KVI WABC WADC  
WBMM WBSN WBRC WBT WCAO  
WCOO WDAE WDBJ WDRG 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

**M — Eider Michaux**

Available to entire network

**R — Fibber McGee and Molly**

KFYR KPRC KSD KSTP KTBS  
KV00 KYW WAVE WBNB WCAE  
WCOL WCSH WDAF WDAY WEAF  
WEBC WFAA WFBR WFLA WGY  
WHO WIBA WIOD WIRE WIS  
WJAR WJAX WJDX WLW WMAQ  
WMC WNAC WOAI WOOD WOW  
WPTF WRC WSB WSM WSMB  
WSOE WSUN WTAG WTAM WTAR  
WTCO WTMJ WWJ WWNC

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

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

CFCF CRCT KDYL KFI KGH  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KV00 KYW  
WAVE WBNB WCAE WCSH WDAF  
WEAF WFAA WFBR WFLA WGY  
WHO WIBA WIOD WIRE WIS  
WJAR WJAX WKY WLW WMAQ  
WMC WNAC WOAI WOW WPTF  
WRC WRVA WSB WSM WSMB  
WTAG WTAM WTAR WTCO WTMJ  
WWJ

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

**R — Contented Program**

CFCF CRCT KDYL KFI KGW KHQ  
KOA KOMO KPO KPRC KSD KYW  
WBNB WCAE WCSH WDAF WEAF  
WEEI WFBR WFLA WGY WHO  
WIOD WIS WJAR WJAX WKY  
WMAQ WMC WOAI WOW WPTF  
WRC WRVA WSB WSM WTAG  
WTAM WTAR WTCO WWJ WWNC

**B — Warden Lewis E. Lawes**

KDKA KECA KFSD KGA KGO  
KJR KLO KOIL KSO KV00 KWK  
WBAL WBZ WBZA WCKY WEAN  
WEBR WENR WFIL WHAM WHK  
WICC WJZ WMAL WMT WOW  
WREN WSPD WSYR WTCN WXYZ

**C — Wayne King and Orchestra**

KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRNT KSL KVI  
KWG WAAB WABC WADC WBMM  
WBSN WBT WCAO WCAU WCCO  
WDRG WEAN WFBL WFBM WHAS  
WHK WIBW WJAS WJR WJSV  
WKBW WKRC WOKO WSPD WWL

## MONDAY (Continued)

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Brave New World**  
Available to entire network

**R — Burns and Allen**  
KARK KDYL KFBK KFI KFYZ  
KFYB KGHL KGRJ KGNK KGO  
KGW KHQ KMJ KOA KOMO KPO  
KPRC KSD KSTP KTAR KTBS  
KV00 KWG WAVE WDAF WDAY  
WEEB WFAA WIBA WJDX WKY  
WMC WOA1 WOW WSB WSMB  
WTMJ

**M — The Lone Ranger**  
KDB KDON KFRC KFYM KGB  
KGDH KHJ KPMC KVOE KXO  
Available to West Coast Section

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Poetic Melodies; Jack Fulton**  
KERN KFAB KPBK KFPY KFRC  
KGB KHJ KLRA KLZ KMBC KMOX  
KON KOL KOMA KRLD KRNT  
KSL KTRH KTSa KVI WBBM  
WBRC WCCO WFBM WGST WLAC  
WREC WWL

**R — Amos 'n' Andy**  
KDYL KERN KFBK KFI KGW  
KHQ KMJ KOA KOMO KPO KPRC  
KSD KGW WDAF WFAA WHO  
WIRE WKY WMAQ WMC WOA1  
WOW WSB WSM WSMB

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Boake Carter**  
KFPY KLZ KNX KOIN KOL KFSO  
KSL KVI

**B — Lum and Abner**  
KECA KERN KEX KFBK KFSD  
KGA KGO KJR KMJ KGW

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Pick and Pat**  
KFPY KGKO KLRA KLZ KMOX  
KNX KOIN KOL KOMA KRLD  
KRNT KSCJ KFSO KSL KTUL  
KVI KWKH WACO WBRC WCCO  
WFBM WHAS WLAC WREC

## TUESDAY

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

**E-7:00 p.m., C-6:00; M-5:00, P-4:00**  
**C — Poetic Melodies, 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  
WGAR WHAM WHIO WIRE WJZ  
WMAL WMT WSYR WXYZ

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Geo. McCall, Hollywood Talk**  
KFAB KFH KLRA KMOX KNOW  
KOMA KRLD KRNT KTRH KTSa  
KWKH WABC WADC WBBM WBNS  
WBT WCAO WCAU WCCO WCHS  
WDAE WDBO WDOD WDRB 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

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Helen Menken, Drama**  
KFAB KFPY KIRO KLZ KMBC  
KMOX KNX KOIN KRNT KFSO

KSL KVI WABC WBBM WCAO  
WCAU WDRG WEEI WFBL WGAR  
WGR WHAS WHEC WHIO WJAS  
WJR WJSV WKRC WOKO WORC  
WPRO

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**R — Johnny with Russ Morgan**  
KFYR KPRC KSD KSTP KTBS  
KTHS KV00 KYW WAVE WBAP  
WBEN WCAE WCHS WDAF WDAY  
WEAF WEBC WFER 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 WTCI  
WTMJ WWJ WWNC

**B — Husbands and Wives**  
KDKA KECA KEX KFSD KGA KGO  
KJR KLO KOIL KSO KVOD KWK  
WABY WBAL WBZ WBZA WCKY  
WEAN WEBR WFIL WGAR WHAM  
WICG WJZ WLS WMAL WMT  
WREN WSYR WXYZ

**C — Edward Robinson; Claire Trevor**  
CBM CFRB KFAB KFH KFPY  
KIRO KLRA KLZ KMBC KMOX  
KNOW KNX KOIN KOMA KRLD  
KRNT KFSO KSL KTRH KTSa  
KTUL KVI WABC WADC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDRG 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

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Al Johnson; Parkyakarkus**  
CFRB CROM KFAB KFH KLRA  
KMBC KMOX KNOW KOMA KRLD  
KRNT KTRH KTSa KTUL WABC  
WADC WBBM WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDRG 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

**R — Wayne King and Orchestra**  
KFYR KPRC KSD KSTP KTBS  
KV00 KYW WAVE WBAP WBEN  
WCAE WCKY WCHS WDAF WDAY  
WEAF WEBC WEEI WFER WGY  
WHO WHIO WIBA WIRE WJAR  
WJDX WKY WMAQ WMC WOA1  
WOW WRC WSB WSM WSMB  
WTAG WTAM WTCI WTMJ WWJ

**B — Edgar Guest, It Can Be Done**  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WFIL WGAR WHAM  
WJZ WLS WLW WMAL WMT  
WREN WSYR WXYZ

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Al Pearce and Gang**  
CFRB CRAC KFAB KFH KGKO  
KLRA KMBC KMOX KOMA KRLD  
KRNT KSCJ KTRH KTSa KTUL  
KWKH WABC WACO WADC WALA  
WBBM WBIG WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDCN WDOD WDRG WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBH WKBN WKBW WKRC  
WLAC WLBB WMAS WMBD WMBG  
WMBR WMMN WNAC WNAX

WNBF WNOX WOC WOKO WORC  
WOWO WPG WQAM WREC WSBT  
WSFA WSJS WSPD WTOG WWL

**M — Paul Whiteman Orchestra**  
Available to entire network

**R — Vox Pop; Sidewalk Interviews**  
KSD KYW WBEW WCAE WCKY  
WCHS WDAF WFAF WEEI WFER  
WGY WHO WIRE WJAR WMAQ  
WOW WRC WTAG WTAM WTCI  
WWJ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Jack Oakie's College**  
KFAB KFH KFPY KGKO KIRO  
KLRA KLZ KMBC KMOX KNOW  
KNX KOIN KOMA KOY KRLD  
KRNT KSCJ KFSO KSL KTRH  
KTSa KTUL KVI KVOR KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCCO WCHS WDAE WDBJ  
WDBO WDCN WDOD WDRG WEEI  
WFBL WFBM WGAR WGST WHAS  
WHEC WHIO WHP WIBW WIBX  
WISN WJAS WJR WJSV WKBH  
WKBN WKBW WKRC WLAC WLBB  
WMAS WMBD WMBR WNAX  
WNBF WNOX WOC WOKO WORC  
WPG WPRO WQAM WREC WRA  
WSBT WSFA WSJS WTOG WWL

**R — Hollywood Mardi Gras**  
CFBC CRCT KDYL KFI KGHL  
KGD KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KV00  
KYW WAVE WBAP WBEN WCAE  
WCOL WCSB WCHS WDAF WDEL  
WEAF WEBC WFER WFLA WGY  
WHO WIBA WIOD WIRE WIS  
WJAR WJAX WKY WMAQ WMBG  
WMC WNAC WOA1 WOOD WOW  
WRC WSB WSM WSMB WSOC  
WTAG WTAM WTAR WTCI WTMJ  
WWJ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Benny Goodman's Orchestra**  
Same stations as Jack Oakie's  
College, above

**B — Gen. Hugh Johnson**  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WCKY WEAN WEBR  
WFIL WHAM WHK WICC WJZ  
WLS WMAL WMT WOWO WREN  
WSPD WSYR WTCN WXYZ

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**M — Witch's Tale; Drama**  
Available to entire network

**R — Jimmy Fidler Hollywood Gossip**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KTAR KYW WBEN  
WCAE WCHS WDAF WFAF WFER  
WGY WHO WJAR WLW WMAQ  
WNAC WOOD WOW WRC WTAG  
WTAM WTCI WWJ

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Poetic Melodies, See Monday**  
**R — Amos 'n' Andy, See Monday**

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Al Johnson; Parkyakarkus**  
KFPY KLZ KNX KOIN KOL KFSO  
KSL KVI

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

## WEDNESDAY

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

E-7:00 p.m., C-6:00, M-5:00, P-4:00  
C — Poetic Melodies, See Monday  
R — Amos 'n' Andy, See Monday  
B — Easy Aces, See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15  
C — Hobby Lobby  
KMBC WABC WADC WBIG WBNS  
WBT WCAO WCAU WCHS WDAE  
WDBJ WDBO WDRG WEEI WFBL  
WGAR WGBI WGR WHCC WHIO  
WIBX WJAS WJR WJVS WKBN  
WKRC WLWZ WMAS WMBR WOKO  
WORC WPRO WQAM WRVA WVVV  
R — Uncle Ezra, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30  
B — Lum and Abner, See Monday  
M — Lone Ranger, See Mon.

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

E-8:00 p.m., C-7:00, M-6:00, P-5:00  
C — Cavalcade of America  
KDB KERN KFAB KFBC KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLL KRNT  
KSL KVI KWG WABC WBBM  
WBNS WCAU WCCO WDRG WEAN  
WFBL WFBM WGR WHAS WHCC  
WHK WJAS WJR WJVS WKRC  
WLAC WMBG WNAC WOKO WTOC  
WWL

R — One Man's Family  
KDYI KFI KFYP KGW KHQ KOA  
KOMO KFO KPRC KSD KSTP  
KTAR KTBS KTHS KVOO KYW  
WAFI WAVE WBAF WBEW WCAE  
WCSH WDAF WDAY WFAF WFCB  
WEEI WFAA WFRB WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WQAI WOW WPTF WRC  
WRVA WSB WSM WSMB WSOC  
WSUN WTAG WTAM WTAR WTIC  
WTMJ WWJ WNNC

B<sup>1</sup> — Eddie Duchin's Orchestra  
KDKA KECA KFEL KFSD KGA  
KGO KJR KLO KOIL KSO KWK  
KXYZ WAGA WBAL WBZ WBZA  
WKY WDSU WEAN WEBR WFIL  
WHAM WHK WICC WJZ WLS  
WMLN WMPW WMT WOW WREN  
WSGN WSPD WSYR WXYZ

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

C — Eddie Cantor; Deanna Durbin  
CFRB CKAC KFAB KFH KLRA  
KMBC KMOX KOMA KRLL KRNT  
KSCJ KTRH KTSK KTL KWKH  
WABC WADC WBBM WBNS WBRG  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRG WEEI WFBL  
WFBM WGR WGST WHAS WHCC  
WHIO WHK WHP WIBW WIBX  
WJAS WJR WJVS WKRC WLAC  
WLWZ WMAS WMBD WMBG  
WMBR WNAX WNOX WOKO WORC  
WOW WPG WPRO WQAM WREC  
WWL

R — Wayne King, See Tuesday

B — Skolsky from Hollywood  
KDKA KECA KFEL KFSD KGA  
KGO KGW KJR KLO KOIL KSO  
KWK WLAL WBZ WBZA WKY  
WEAN WEBR WFIL WHAM WHK  
WICC WJZ WLS WMLN WMT

WOW WREN WSPD WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00  
C — Chesterfield; Andre Kostelanetz  
KDB KERN KFAB KFBC KFH  
KFPY KFRC KGB KGKO KGMB  
KHJ KLKA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSK  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRG WBT WCAO  
WCAU WCCO WCOA WDAE WDBG  
WDBO WDNC WDOD WDRG WEAN  
WFBL WFBM WFEA WGST WHAS  
WHCC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJVS  
WKBH WKBW WKRC WLAC WLWZ  
WMAS WMBD WMBG WMBR  
WNAC WNAX WNOX WOC  
WOKO WORC WOW WPG WQAM  
WREC WSFA WJSJ WSPD WTOC  
WWL

R — Town Hall Tonight  
KFYR KPRC KSD KSTP KTBS  
KTBS KVOO KYW WAVE WBEN  
WCAE WCSH WDAF WDAY WEAF  
WFCB WEEI WFAA WFRB WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WQAI WOW WPTF WRC WSB  
WSM WSMB WSOC WTAG WTAM  
WTAR WTIC WTMJ WWJ WNNC

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

C — Crime Crusade; Phil Lord  
KDB KERN KFAB KFBC KFH  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOM A KRLL KRNT KSL KTRH  
KTSK KTUL KVI KWG KWKH  
WABC WACO WBBM WBNS WBRG  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRG WEAN WFBL  
WFBM WGST WHAS WHCC WHK  
WICC WISN WJAS WJR WJVS  
WKBW WKRC WLAC WLWZ WMBG  
WMBR WNAC WOKO WORC WOW  
WQAM WREC WTOC WWL

R — Your Hollywood Parade  
KDYI KERN KFBC KFI KFYP  
KGBX KGHK KGIR KGNC KGU  
KGW KHQ KIDO KMJ KOA KOB  
KOMO KPO KPRC KSD KSTP  
KTAR KTBS KTHS KWG KYW  
WAFI WAVE WBEN WCAE WCCO  
WCSH WDAF WDEL WFAF WFCB  
WFLA WFBC WFRB WFEA WFLA  
WGL WGY WHO WIBA WIOD WIRE  
WIS WJAR WJAX WJDX WKY  
WLW WMAQ WMBG WMC WNAC  
WQAI WOOD WORK WOW WPTF  
WRC WSB WSM WSMB WSOC  
WSUN WTAG WTAM WTAR WTIC  
WTMJ WWJ WNNC

B — Gen. Hugh Johnson, See Tues.

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

C — Hobby Lobby; Harry Salter  
KDAL KFAB KFH KFPY KGKO  
KIRO KLZ KMOX KNOW KNX  
KOH KOIN KOMA KRLL KOY  
KRNT KSFQ KSL KTRH KTSK  
KTUL KVI KWKH WALA WBBM  
WBRG WCCO WCOE WFBM WGST  
WHAS WIBW WISN WLAC WMBD  
WNOX WNOX WOC WREC WSBT  
WSFA WWL

M — Lone Ranger, see Mon.

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

C — Poetic Melodies, See Monday  
R — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15

C — Boake Carter, See Monday

B — Lum and Abner, See Monday

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

C — Eddie Cantor; Deanna Durbin  
KFBB KFPY KGVO KLZ KNX  
KOH KOIN KOL KOY KSFO KSL  
KVI KVOR

## THURSDAY

E-6:45 p.m., C-5:45, M-4:45, P-3:45

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — Geo. McCall, see Tues.

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

C — "We, The People."

KFAB KMBC KMOX KNOW; KOMA  
KRLL KRNT KSCJ KTRH KTSK  
KTUL WABC WBBM WBNS WCAO  
WCAU WCCO WDAE WDBO WDRG  
WEEI WFBL WGAR WGR WHAS  
WHCC WHIO WHP WIBX WISN  
WJAS WJR WJVS WKRK WMBD  
WMBR WOC WOKO WPRO WQAM

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

C — Kate Smith; Henny Youngman  
CFRB CRMC KDAL KFAB KFH  
KGKO KLRA KMBC KMOX KNOW  
KOMA KRLL KRNT KSCJ KTRH  
KTSK KTUL KWKH WABC WACO  
WADC WBBM WBNS WBRG WBT  
WCAU WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRG WEEI WEOA  
WFBL WFBM WGAR WGR WGST  
WHAS WHCC WHIO WHP WIBW  
WISN WJAS WJR WJVS WKBN  
WKRC WLAC WLWZ WMBD WMBR  
WNAX WNOX WOC WOKO WORC  
WPRO WQAM WRVA WREC WSFA  
WTAQ WWL

R — Rudy Vallee's Variety Hour  
CFRC CROC KDYL KFI KFYP  
KGW KHQ KOA KOMO KPO KSD  
KSTP KTAR KYW WBEN WCAE  
WCSH WDAF WDAY WFAF WFCB  
WEEI WFRB WGY WHO WJAR  
WLW WMAQ WOW WRC WTAM  
WTIC WTMJ WWJ

B — Gen. Hugh Johnson, See Mon.

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

B — March of Time

KDKA KERN KECA KFBC KFEL  
KFSD KGA KGO KJR KLO KMJ  
KOIL KSO KWG KWK KXYZ WABY  
WBAL WBZ WBZA WKY WCOP  
WEBR WFIL WHAM WJZ WMLN  
WMPW WMT WOW WREN WSPD  
WSYR WTCN WXYZ

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

C — Major Bowes' Amateurs  
CFRB CKAC KDB KERN KFAB  
KFBC KFH KFPY KFRC KGB  
KGKO KLRA KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSK  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRG WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDOD WDRG WEAN  
WFBL WFBM WFEA WGST WHAS  
WHCC WHK WHP WIBW WIBX

## THURSDAY (Continued)

WICC WISN WJAS WJWR WJSV  
WKBW WKBW WKRC WLAC WLBZ  
WMA5 WMBD WMBG WMBR  
WMMN WNAC WNAX WOC WOKO  
WORC WOWO WPG WQAM WREC  
WSFA WSJS WSPD WTCC WWL

### R — MGM Program

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

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

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

### E-10:30 p.m., C-9:30, M-8:30, P-7:30

C — "We, The People."  
KFPY KIRO KLZ KNX KOIN KOY  
KSFO KSL KVI

### E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

### E-11:15 p.m., C-10:15, M-9:15, P-8:15

C — Kate Smith; Henny Youngman  
KFBK KFPY KGVO KIRO KLZ  
KNX KOIN KOY KSFO KSL KVI  
KVOR

## FRIDAY

### E-6:45 p.m., C-5:45, M-4:45, P-3:45

R — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

M — Lone Ranger, See Mon.

### E-7:45 p.m., C-6:45, M-5:45, P-4:45

C — Boake Carter, See Monday

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

C — Hammerstein Music Hall  
KDB KERN KFBK KFBK KFPY  
KPRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRNT  
KSL KVI KWG WABC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDRC WEAN WFBL WFBM  
WFBW WGBT WHAS WHK WJAS  
WJR WJSV WKRC WMAS WMBG  
WNAC WOKO WWL

### R — Cities Service Concert

CRCT CFYR KOA KPRC KSD  
KSTP KTBS KTHS KVOO KYW

WBAP WBEN WCAE WCSH WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFBW WGY WHO WIBA WIOD  
WJAR WKY WMAQ WOAI WOW  
WRC WRVA WSAI WTAG WTAM  
WTIC WTMJ WWJ

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

C — Hal Kemp; Alice Faye  
KFAB KFH KGKO KLRA KMBC  
KMOX KOMA KRLL KRNT KSCJ  
KTRH KTSB KTUL KWKH WABC  
WACO WADC WALA WBBM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCCO WCOA WDAE WDBJ WDBO  
WDNC WDOD WDRC WEEI WFBL  
WFBM WFEA WGR WGST WHAS  
WHBC WHIO WHK WHP WIBW  
WIBX WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLBZ WMA5  
WMBD WMBG WMBR WMMN  
WNAX WNBW WNOX WOC WOKO  
WORC WOWO WPG WPRO WQAM  
WREC WSFA WSJS WSPD WTOC  
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

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

C — Hollywood Hotel  
CFRB CEAK KDB KERN KFAB  
KFBK KFH KFPY KPRC KGB  
KHJ KLRA KLZ KMBC KMJ KMOX  
KOIN KOL KOMA KRLL KRNT  
KSCJ KSL KTRH KTSB KTUL KVI  
KVOR KWG KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDRC WEAN WFBL WFBM WFEA  
WGST WHAS WHBC WHK WHP  
WIBW WIBX WICG WJAS WJR  
WJSV WKBW WKRC WLAC WLW  
WMA5 WMBD WMBG WMBR  
WNAC WNAX WNOX WOKO WORC  
WPG WQAM WREC WSPD WWL

### R — Frank Munny; Abe Lyman

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

### B — Pontiac Varsity Show

KARK KDKA KECA KERN KFBK  
KFEL KFSD KFYR KGA KGHF  
KGHL KGIR KGNC KGO KGW  
KJR KLO KOB KOIL KPRC KSD  
KTAR KTBS KTHS KWG KWK  
WAPI WAVE WBAL WBZ WVA  
WCSW WDAY WEAN WEBC WEBR  
WFAA WFBC WFIL WFLA WHAM  
WHK WICC WIOD WIS WJAX  
WJDX WJZ WKY WLS WLW WMAL  
WMC WMT WOAI WOOD WOWO  
WPTF WREN WSB WSM WSMB  
WSOC WSPD WSUN WSYR WTAR  
WTCN WWNC WXYZ

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

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

### B — Tommy Dorsey's Orchestra

KARK KDKA KECA KFSD KGA  
KGO KJR KLO KOIL KPRC KSO  
KTBS KTHS KVOD KWK WABY  
WAVE WBAL WBZ WBZA WCKY  
WOOL WDSU WEAN WEBR WENR

WFAA WFIL WFLA WHAM WHK  
WIBA WICC WIOD WIS WJAX  
WJZ WKY WMAL WMP5 WMT  
WOOD WOWO WPTF WREN WRTD  
WSGN WSM WSPD WSOB WSUN  
WSYR WTAR WTCN WTMJ WWNC  
WXYZ

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

C — Frank Crumit; Kitty Carlisle  
KDAL KFAB KFBB KFH KFPY  
KGKO KGLO KGVO KRLA KLZ  
KMOX KNOW KNX KOH KOIN  
KOL KOMA KOY KRLL KRNT  
KSCJ KSFO KSL KTRH KTSB  
KTUL KVI KVOR KWKH WABC  
WACO WADC WALA WBBM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCCO WCHS WCOA WCOB WDAE  
WDBJ WDBO WDNC WDOD WDRC  
WEEI WEOA WFBL WFBM WGAR  
WGBI WGST WHAS WHBC WHIO  
WHP WIBW WIBX WISN WJAS  
WJO WJR WJSV WKBW WKBW  
WKRC WLAC WLBZ WMA5 WMBD  
WMBR WMMN WNBW WNOX WOC  
WOKO WORC WPAR WPG WPRO  
WQAM WREC WRVA WSBT WSFA  
WSJS WTOC WWL

### R — First Nighter; Drama

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

### E-10:30 p.m., C-9:30, M-8:30, P-7:30

M — Lone Ranger, See Mon.

### R — Jimmy Fidler

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

### E-10:45 p.m., C-9:45, M-8:45, P-7:45

R — Dorothy Thompson—News  
KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KSTP KYW WBEN WCAE  
WCSH WDAF WDEL WEAF WFBW  
WGY WIRE WJAR WLW WMAQ  
WNAC WOW WRC WTAG WTAM  
WTIC WWJ

### E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

### E-11:15 p.m., C-10:15, M-9:15, P-8:15

C — Boake Carter, See Monday

B — Lum and Abner, See Monday

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

C — Hal Kemp; Alice Faye  
KFBK KFPY KGMB KGVO KLZ  
KNX KOH KOIN KOL KSFO KSL  
KVI KVOR

## SATURDAY

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

C — Saturday Night Swing Club  
Available to Columbia and Canadian  
Networks

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

C — Carborundum Band  
KFAB KMBC KMOX WABC WBBM  
WBTV WCAO WCAU WCCO WEEI

# SATURDAY (Continued)

WFBL WGAR WGR WHAS WJAS  
WJR WKRC WPRO

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

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Your Unseen Friend**  
WABC WADC WBBM WCAU WEEI  
WFBL WGAR WHEC WHP WJAS  
WJR

**R — "Believe-it-or-not." Ripley**  
KANS KDYL KFYZ KGNC KOA  
KPRC KSD KSTP KYW WAPI  
WAVE WBAP WBBN WCAE WCHS  
WDAF WDAY WDEL WEAF WEBC  
WFBC WFBZ WGY WHO WIBA  
WIRE WJAR WKY WLW WMAQ  
WMBG WNAC WMC WOAI WOOD  
WOW WPTF WRC WSB WSBM  
WSOC WSPD WTAG WTAM WTAR  
WTIC WTMJ WWJ

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Johnny Presents Russ Morgan**  
KFAB KFH KMBC KMOX KRNT  
WABC WADC WBBM WBIG WBNS  
WBT WCAU WCAU WCCO WCOA  
WDRG WEEI WFBL WFBM WGR  
WGST WHAS WHEC WHIO WHK  
WHP WISN WJAS WJR WJSV  
WKRC WMBD WMBG WNBZ WOC  
WOKO WPRO WSBT WWVA

**R — Jack Haley; Virginia Verrill**  
KDYL KGNC KOA KPRC KSD  
KSTP KYW WAPI WAVE WBAP  
WBBN WCAE WCHS WDAF WDEL  
WEAF WEBC WFBC WFBZ WGY  
WHO WIBA WIRE WJAR WKY  
WLW WMAQ WMBG WMC WNAC  
WOAI WOW WPTF WRC WSB  
WSBM WSOC WSPD WTAG WTAM  
WTAR WTIC WTMJ WWJ

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Prof. Quiz**

KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLRA KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLL KRNT KSL KTRH KTSK  
KVI KWG WABC WBBM WBNS  
WBT WCAU WCAU WCCO WDAE  
WDBO WDRG 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 WOOD  
WPTF WREN WRVA WSB WSBM  
WSOC WSUN WSYR WTAR WWNC  
WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Saturday Night Serenade**  
KFAB KFH KFPY KGKO KLRA  
KLZ KMBC KMOX KNOW KNX  
KOIN KOL KOMA KRLL KSFO  
KTRH KTSK KTUL KVI KWKH  
WALA WBBM WBIG WBNS WBRC  
WBT WCAU 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 WTCC WWL  
WWVA

**E-10:00 p.m., C-9:00, M-8:00, P-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 KRLL  
KRNT KSCJ KSL KTRH KTSK  
KTUL KVI KVR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAU  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDOD WDRG 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 WTCC WWL WWVA

**R — NBC Symphony Orchestra**  
Available to entire Red and Blue  
Network

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**B — National Barn Dance**  
KDYL KFI KFSD KFYZ KGHL  
KGIR KGU KGW KHQ KOA KOMO  
KPO KSTP KTR WDAY WFBZ  
WIBA WLW WTMJ

**CBC — Northern Messenger**  
To Midcast and Western Networks  
of the CBC

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Johnny Presents Russ Morgan**  
KFAB KFPY KGVO KIRO KLZ  
KNX KOIN KSFO KSL KVI KVOR

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**C — Professor Quiz**

KFBZ KFPY KIRO KNX KOH  
KOIN KOY KSFO KSL KVI  
R — "Believe-It-Or-Not" Ripley  
KERN KFAB KFI KGW KHQ KMJ  
KOMO KPO KWG

# SUNDAY

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

**C — Major Bowes' "Family"**  
CFRB KERN KFAB KFBK KFBK  
KFH KFPY KFRC KGB KGVO  
KMBC KOH KOL KRLL KSL KTRH  
KTSK KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBNS  
WBRC WCAU WCCO WDAE WDBJ  
WDBO WDNC WESG WFBL WFEA  
WHAS WHK WIBX WJAS WJR  
WKRC WLWZ WMBD WMBR  
WMMN WOC WOKO WORC WPG  
WQAM WSBT WSJS WSPD WTCC

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

**C — Salt Lake Tabernacle Choir**  
CFRB KFAB KFBK KFBK KFH  
KFPY KFRC KGB KLZ KOH KOL  
KRLL KSL KTRH KTSK KVI KVOR  
KWG WABC WACO WADC WALA  
WBIG WBNS WBRC WCAU WCCO  
WDAE WDBJ WDBO WESG WFBL  
WFEA WGR WHAS WICC WJAS  
WJR WKRC WLWZ WMBR WMMN  
WOC WOKO WORC WQAM WSBT  
WSJS WSPD WTCC

**E-1:00 p.m., C-Noon, M-11:00 a.m., P-10:00**

**C — Church of the Air**  
KFBC KFH KFPY KFRC KGB  
KHJ KMOX KOH KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSK KVI  
KVOR KWG WABC WALA WBNS

WBT WCAO WCCO WDAE WDBJ  
WDBO WDRG WESG WFBL WFBM  
WGR WHAS WHP WIBX WJAS  
WJSV WKBW WKRC WLAC WLBZ  
WMBR WNBZ WOC WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSPD WTCC WWVA

**E-1:45 p.m., C-12:45, M-11:45, P-10:45**

**C — Hollywood; Lloyd Pantages**  
KFAB KLZ KMBC KMOX KRNT  
KSL WALB WABC WBBM WCAU WCCO  
WEEI WFBM WGAR WGR WHEC  
WJAS WJR WORC

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

**B — Magic Key of RCA**  
CFBC CRCT KDKA KDYL KFI  
KFYZ KGU KGW KHQ KOA KOIL  
KOMO KPO KPRC KSO KSTP KTBS  
KTHS KVOO KWK WAPI WAVE  
WBAL WBZ WBZA WCKY WDAY  
WBBZ WENR WFAA WFIL WFLA  
WGAR WHAM WHIO WHIA WIOD  
WIRE WIS WJAX WJDX WJZ WKY  
WMAL WMC WMT WOAI WPTF  
WREN WRVA WSB WSM WSNB  
WSOC WSYR WTAR WTMJ WWNC  
WXYZ

**C — The Fun Bug**  
KDAL KFAB KFH KGKO KMBC  
KMOX KNOW KOMA KRLL KRNT  
KTSK KTUL WBBM WCCO WIBW  
WISN WKBZ WNAX WTAQ

**E-2:30 p.m., C-1:30, M-12:30, P-11:30**

**C — Jean Hershot, "Dr. Christian."**  
CFRB KFAB KFH KMBC KMOX  
KNOW KOMA KRLL KRNT KSCJ  
KTRH KTSK KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAU  
WCAU WCCO WCHS WDAE WDBO  
WDRG WHEE WFBL WFBM WGAR  
WGST WHAS WHEC WHIO WHP  
WIBW WJAS WJR WJSV WKBW  
WKRC WLAC WLBZ WMS WMBR  
WOKO WORC WPRO WQAM WREC  
WRVA WWL

**E-3:00 p.m., C-2:00, M-1:00, P-Noon**

**C — N. Y. Philharmonic**  
CFRB CKAC KFBC KFBZ KFH  
KGKO KGVO KLRA KLZ KMBC  
KMOX KNOW KOL KRLL KSCJ  
KSL KTRH KTSK KWKH WABC  
WADC WALA WBNS WBT WCAU  
WCCO WCHS WDAE WDBJ WDBO  
WDRG WEEI WESG WFBL WFBM  
WHAS WHK WHP WIBW WIBX  
WJAS WJR WJSV WKBZ WKBW  
WKBW WKRC WLAC WLBZ WMAS  
WMBD WMBG WMBR WMMN  
WNBZ WOC WOKO WORC WPAR  
WPRO WQAM WSBT WSJS WTAQ  
WTCC WWL

**Also on Canadian Network**

**R — The Radio News Reel**  
KSD KSTP KYW WBBN WCAE  
WCHS WDAF WDEL WEAF WFBZ  
WGY WHO WIRE WJAR WMAQ  
WNAC WOW WRC WSAI WTAG  
WTAM WTIC WWJ

**E-3:30 p.m., C-2:30, M-1:30, P-12:30**

**R — Bicycle Party**  
KARK KDYL KFI KGW KHQ  
KOA KOMO KPO KPRC KSTP  
KVOO KYW WAPI WAVE WBBN  
WCAE WDAF WEAF WFAA WFLA  
WGY WHO WIOD WIRE WJAX  
WLW WMAQ WRC WSB WSM WSBM  
WTAM WTIC WWJ



# SUNDAY (Continued)

E-4:30 p.m., C-3:30, M-2:30, P-1:30

R — The World Is Yours; Drama Available to Red Network

E-5:00 p.m., C-4:00, M-3:00, P-2:00

C — The Silver Theater

CFRB CKAC KFAB KFPY KLZ  
KMBC KMOX KNOW KNX KOIN  
KOL KOMA KRLD KRNT KSFO  
KSL KTRH KTSK KTUL KVI  
WABC WADC WBBM WBNS WCAO  
WCOO WCOA WDBO WDRC WEEI  
WGAR WGR WGST WHAS WHEC  
WHIO WJAS WJR WJSV WKRC  
WMBR WOKO WPRO WQAM WWL

Also on Canadian Network

R — Marion Talley

KDYL KFI KGW KHQ KOA KOMO  
KPO KSTP KYW WBNB WCAE  
WCOL WCSH WDAF WDEL WFAF  
WEEC WFER WGY WHO WIBA  
WIRE WJAR WMAQ WNAC WOOD  
WOW WRC WSAI WTAG WTAM  
WTIC WTMJ WWJ

B — Metropolitan Opera Auditions

CFRC CRCT KARK KATZ KECA  
KEX KFEL KFI KFSB KFYR KGA  
KGR KRNC KGO KGU KJR KLO  
KOIL KPRC KSO KTBS KVOO  
KWK WABY WAPI WAVE WBAL  
WBAP WBZ WBZA WCKY WCSC  
WDAY WEAN WEBR WENR WFIL  
WFLA WHAM WHK WICW WIOD  
WIS WJAX WJDX WJZ WKY WMAL  
WMC WMT WQAI WOWO WPTF  
WREN WRIT WSB WSMB  
WSOC WSPD WSNW WSYR WTAR  
WTCN WUNC WXYZ

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

C — Guy Lombardo and Orchestra

KFAB KMBC KMOX KOMA KTUL  
WAAB WABC WBNS WCAO WCAU  
WDRS WEAN WFBL WFBM WGR  
WHAS WHEC WHK WIBX WICC  
WJR WJSV WMAA WOKO WORC  
WSPD WWVA

B — Smiling Ed McConnell

KANS KDKA KECA KERN KEX  
KFBC KFSB KFYR KGA KGIR  
KGO KJR KLO KMJ KOIL KSO  
KTAR KWG KWK WAVE WBAL  
WBZ WBZA WCKY WCOL WDAY  
WDSU WEAN WEBR WEBR WENR  
WFIL WEAM WHK WICC WJZ  
WMAL WMT WREN WRIT WSM  
WSPD WSYR WTCN WXYZ

R — Joe Rines; Sheila Barrett

CFRC CRCT KDYL KFI KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTHS KVOO KYW WAPI  
WBAP WEAN WCAE WCSH WDAF  
WDEL WFAF WFER WFLA WGY  
WHO WIOD WIRE WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMBG WMC WNAC WQAI WOW  
WPTF WRC WSB WSMB WSOB  
WTAG WTAM WTAR WTIC

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Joe Penner; Gene Austin

KFAB KFPY KGLO KILZ KMBC  
KMOX KNOW KNX KOIN KOL  
KOM A KRLD KRNT KSFO KSL  
KTRH KTSK KVI WABC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCOO WDAE WDBO WDRC WEEI  
WFBL WFBM WGAR WGST WHAS  
WHEC WJAS WJR WJSV WKBN  
WKRC WOKO WORC WPRO WQAM  
WREB WRVA

M — George Jessel; Tommy Tucker  
To entire MBS and Michigan Net-  
works

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C — Seymour Simon's Orchestra

KDAL KFAB KFBB KFH KFPY  
KGKO KGVO KLRA KLZ KMBC  
KMOX KNOW KNX KOH KOIN  
KOL KOMA KOY KRLD KRNT  
KSCJ KSFO KSL KTRH KTSK  
KTUL KVI KVOR KWKH WABC  
WACO WADC WAAM WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCOO WCHS WCOA WCOE  
WDAE WDBJ WDBO WDNC WDOD  
WDRS WEEI WEOA WFBL WFBM  
WGAR WGBI WGST WHAS WHEC  
WHIO WHP WIBW WIBX WISN  
WJAS WJNO WJR WJSV WKBB  
WKBH WKBN WKBW WKRC  
WLAC WLBS WMAA WMBD WMBR  
WMMN WNAX WNBW WNOX WOC  
WOKO WORC WPAR WPG WPRO  
WQAM WREC WRVA WSBT WSFA  
WSJS WTAQ WTOG WWL WWVA

M — Tim and Irene

OKLV KWK WBAL WCAE WGN  
WHK WIRE WOR

R — A Tale of Today

WBEN WFAF WGV WJAR WMAQ  
WOW WRC WTAM

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

C — Jeanette MacDonald

KFAB KFH KFPY KLZ KMOX  
KNOW KNX KOIN KOL KOMA  
KRLD KRNT KSFO KSL KTRH  
KTSK KTUL KVI KWKH WABC  
WADC WBBM WBIG WBRC WBT  
WCAO WCAU WCOO WDRS WEEI  
WFBL WFBM WGAR WGBI WGR  
WGST WHAS WHEC WHIO WJAS  
WJR WJSV WKRC WOKO WPRO  
WREC WRVA WTOG WWL

R — Jack Benny; Mary Livingstone

KSD KYA KYW WBNB WCAE  
WCSH WDAF WFAF WFER WGY  
WHO WJAR WLW WMAQ WNAC  
WOW WRC WTAG WTAM WTIC  
WWJ

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

C — Phil Baker; Oscar Bradley

KLRA KLZ KRLD KTRH KTSK  
KTUL KWKH WABC WACO WADC  
WALA WBIG WBNS WBRC WBT  
WCAO WCAU WCOA WDAE WDBJ  
WDBO WDNC WDOD WDRS WEAN  
WFBL WFBM WFEA WGR WGST  
WHAS WHEC WHK WHP WIBX  
WICC WJAS WJR WJSV WKBN  
WKRC WLAC WLBS WMAA WMBR  
WNAX WNOX WOKO WORC WQAM  
WREB WSBT WSFA WSJS WSMK  
WSPD WTOG WWL WWVA

R — Fireside Recitals

KSD KYW WBNB WCAE WCSH  
WDAF WFAF WFER WGY WIRE  
WJAR WMAQ WOW WRC WSAI  
WTAG WTAM WTIC WWJ

B — Ozzie Nelson; Harriet Hillard

KARK KDKA KECA KFEL KEX  
KFSB KFYR KGA KGO KJR KLO  
KOIL KPRC KSO KSTP KTAR  
KTHS KTHS KVOO KWK WABY  
WAPI WAVE WBAL WBAP WBZ  
WBZA WCKY WCOL WDAY WEAN  
WEBR WENR WFIL WFLA WHAM  
WHK WIBA WICC WIOD WIS  
WJAX WJDX WJZ WKY WLEU

WLS WMAL WMC WMT WQAI  
WPTF WREN WRIT WSB WSOB  
WSMB WSOB WSNW WSYR WTAR  
WTMJ WWMO WXYZ

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

C — Columbia Workshop

KFAB KFH KFPY KLRA KLZ  
KMBC KMOX KNX KOIN KOL  
KOM A KRLD KRNT KSCJ KSFD  
KSL KTRH KTSK KTUL KVI  
KWKH WABC WADC WBBM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCOO WDAE WDBJ WDBO WDRS  
WEEI WFBL WFBM WGR WGST  
WHAS WHEC WHIO WHK WHP  
WIBX WJAS WJR WJSV WKBN  
WKRC WLAC WLBS WMAA WMBG  
WMBR WNAX WNBW WNOX WOKO  
WORC WPRO WQAM WREC WSBT  
WWL WWVA

Also on Canadian Network

R — Don Ameche; Edgar Bergen

CFRC CRCT KDYL KFI KFYR  
KHQ KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KVOO  
KYW WAVE WBNB WCAE WCSH  
WDAF WDAY WFAF WFER WFLA  
WFER WFLA WGY WHO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WNAC WQAI WOW WPTF WRC  
WRVA WSB WSM WSMB WSOB  
WSNW WTAG WTAM WTAR WTIC  
WTMJ WWJ WUNC

B — General Motors Concert

KANS KDKA KERN KECA KFBC  
KFEL KFSB KGA KGHK KGIR  
KGO KGU KJR KLO KMJ KOIL  
KSO KVOO KWG KWK KXYZ  
WABY WAGA WBAL WBCM WBOW  
WBZ WBZA WCKY WCOL WDSU  
WEAN WEBR WFER WFEA WFIL  
WGBF WGL WHAM WHK WICC  
WJBO WJIM WJTN WJZ WLEU  
WLS WML WMPMS WMT WORK  
WROL WRIT WSGN WSMK WSPD  
WSUN WSYR WXYZ

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

C — Ford Concert

CFRB-CKAC KDB KERN KFAB  
KFBC KFH KFPY KFCR KGB  
KGKO KHJ KLRA KLZ KMBC  
KMJ KMOX KOH KOIN KOL KOMA  
KRLD KRNT KSCJ KSL KTRH  
KTSK KTUL KVI KVOR KWG  
KWKH WABC WACO WADC WALA  
WBBM WBIG WBNS WBRC WBT  
WCAO WCAU WCOO WCOA WDAE  
WDBJ WDBO WDNC WDOD WDRS  
WEAN WFBL WFBM WFEA WGR  
WGST WHAS WHEC WHK WHP  
WIBW WIBX WICC WISN WJAS  
WJR WJSV WKBN WKRC WLAC  
WLBS WMAA WMBD WMBR WNAC  
WNAX WOC WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSPD  
WTOG WWL WWVA

B — Tyrone Power; Drama

KDKA KECA KFSB KGA KGHK  
KGR KGO KJR KLO KOIL KSO  
KTAR KWK WBAL WBZ WBAZ  
WEBR WEBR WENR WFIL WGAR  
WHAM WICC WJZ WLW WMAL  
WMT WREN WSYR WXYZ

R — Manhattan Merry-Go-Round

CFRC KDYL KFI KFYR KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTHS KYW WAVE  
WBNB WCAE WCKY WCSH WDAF  
WDAY WFAF WFER WFEA WFAA

## SUNDAY (Continued)

WPBR WFLA WGY WHO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOW WPTF WRC WRVA WSB  
WSM WSMB WSOE WTAG WTAM  
WTAR WTMJ WWJ WWNC

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

**R — Album of Familial Music**  
CFCF CROCT KDYL KFI KFYR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KYW WAPI  
WAVE WBEN WCAE WCSH WDAF  
WDAY WFAE WEBC WERI WFAA  
WFRB WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMAQ WMC WOAI WOW  
WPTF WRC WRVA WSAI WSB  
WSM WSMB WSOE 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

**E-9:45 p.m., C-8:45, M-7:45, P-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

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

**C — Zenith Foundation**  
KFAB KFPY KLRA KLZ KMBC  
KMOX KNOX KNX KOIN KOL  
KOMA KRLD KRNT KSFQ  
KSL KTRH K TSA KTUL KVI  
WABC WBBM WBNS WBRC WBT  
WCAU WCCO WDAE WDBO WDRD  
WEEI WFBL WFBM WGAR WGST  
WHAS WHCZ WJAS WJR WJSV  
WKBW WKRC WMBR WNOX  
WOKO WORC WPRO WQAM WWL

**R — Rising Musical Stars**

KDYL KFI KGBX KGW KHQ KOA  
KPO KPRC KSD KSTP KTAR KTBS  
KTBS KYW WAVE WBAP WBEN  
WCAE WCSH WDAF WFAE WFRB  
WFLA WGY WHO WIBA WIOD  
WIRE WIS WJAR WJAX WJDX  
WKY WMAQ WMC WNAO WVAI  
WOOD WOW WPTF WRC WRVA

WSB WSM WSMB WSOE WTAG  
WTAM WTAR WTIC WTMJ WWJ  
WWNC

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

**B — Irene Rich, Drama**  
KECA KERN KEX KFBS KFSD  
KGA KGO KJR KLO KMJ KVOD  
KWG WAPI WAVE WJDX WMC  
WSB WSM WSMB

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**

**B — Walter Winchell**  
KDYL KFI KFSD KGHL KGIR  
KGW KHQ KOA KOMO KPO KPRC  
KTAR KTBS KTBS WAPI WAVE  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSMB

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

**R — Jack Benny-Mary Livingstone**  
KDYL KERN KFBS KFI KFSD  
KGHL KGIR KGU KGW KHQ  
KIDO KMJ KOA KOMO KPO KTAR  
KWG

**B — Tyrone Power; Drama**

KARK KPRC KTBS WAPI WAVE  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSMB

## CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

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  
Bob Burns, 10:00 p.m. Thurs., Red  
Burns and Allen, 8 and 10:30 p.m., Mon., Red  
Charles Butterworth, 9:30 p.m. Tues., Red  
Eddie Cantor, 8:30 and 11:30 p.m. Wed., CBS  
Stuart Erwin, 9:30 p.m. Tues., CBS  
Billy Franz, 2:00 p.m. Sun., CBS  
Jack Haley, 8:30 p.m. Sat., Red  
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  
Ken Murray and Oswald, 9:00 p.m. Fri., CBS  
Jack Oakie, 9:30 p.m. Tues., CBS  
Walter O'Keefe, 9:30 p.m. Tues., Red  
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  
Pinky Tomlin, 8:30 and 11:30 p.m. Wed., CBS  
Henny Youngman, 8 and 11:15 p.m. Thurs., CBS

### CONCERTS

Frank Black, 2:00 p.m. Sun., Blue  
Ford Sunday Evening Hour, 9:00 p.m. Sun., CBS  
General Motors Concert, 8:00 p.m. Sun., Blue  
Andre Kostelanetz, 9:00 p.m. Wed., CBS  
Metropolitan Opera, Sat. afternoons, NBC  
Met. Opera Auditions, 5:00 p.m. Sun., Blue  
NBC Symphony Orchestra, 10:00 p.m. Sat., Red and  
Blue  
N. Y. Philharmonic, 3:00 p.m. Sun., CBS  
Philadelphia Symphony, 9:00 p.m. Sun., Blue

### DANCE BANDS

Robert Armbruster, 8:00 p.m. Sun., Red  
Oscar Bradley, 7:30 p.m. Sun., CBS  
Tommy Dorsey, 10:00 p.m. Fri., Blue  
Eddie Duchin, 8:00 p.m. Wed., Blue  
Ted Fio Rito, 8:30 p.m. Sat., Red  
Al Goodman, 10:00 p.m. Sat., CBS  
Benny Goodman, 10:00 p.m. Tues., CBS

Jimmy Grier, 6:00 p.m. Sun., 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  
Carl Hoff, 9 and 12 p.m. Tues., CBS  
Hal Kemp, 8:30 and 11:30 p.m. Fri., CBS  
Wayne King, 8:30 p.m. Tues., Red; 10 p.m.  
Mon., CBS  
Benny Krueger, 8:30 p.m. Mon., CBS  
Guy Lombardo, 5:30 p.m. Sun., CBS  
Abe Lyman, 9:00 p.m. Fri., Red  
Hugo Mariani, 3:30 p.m. Sun., Red  
Frankie Masters, 8:30 p.m. Tues., Blue  
Jack Miller, 8 and 11:15 p.m. Thurs., CBS  
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  
Ray Noble, 8 and 10:30 p.m. Mon., Red  
Raymond Paige, 9:30 p.m. Tues., Red; 9:00 p.m. Fri.,  
CBS  
Jacques Renard, 8:30 and 11:30 p.m. Wed., CBS  
Joe Rines, 5:30 p.m. Sun., Red  
B. A. Rolfe, 8:00 and 12:00 p.m. Sat., Red  
Harry Salter, 8:00 p.m. Sat., CBS; 10:00 p.m. Sat.,  
CBS; 7:15 and 10:30 p.m. Wed., CBS  
Seymour Simons, 6:30 p.m. Sun., CBS  
Phil Spitalny, 9:30 p.m. Mon., CBS  
Georgie Stoll, 9:30 p.m. Tues., 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  
Ted Weems, 9:00 p.m. Mon., Red  
Paul Whiteman, 9:00 p.m. Tues., MBS  
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, 9:00 p.m. Mon., Red  
Lum and Abner, 7:30 and 11:15 p.m. Mon., Wed.,  
Fri., Blue  
Pick and Pat, 8:30 and 11:30 p.m. Mon., CBS

Tim and Irene, 6:30 p.m. Sun., MBS

### DRAMA

Campana's First Nighter, 10:00 p.m. Fri., Red  
Campana's Grand Hotel, 8:30 p.m. Mon., Blue  
Columbia Workshop, 8:00 p.m. Sun., CBS  
Death Valley Days, 8:30 p.m. Fri., Blue  
Gang Busters, 10:00 p.m. Wed., CBS  
Eddie Guest, 8:30 p.m. Tues., Blue  
Jean Hersholt, 2:30 p.m. Sun., 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 11:30 p.m. Sun., Blue  
Irene Rich, 9:45 and 11:00 p.m. Sun., Blue  
Edward G. Robinson, 8:00 p.m. Tues., CBS  
Silver Theater, 5:00 p.m. Sun., CBS  
A Tale of Today, 6:30 p.m. Sun., Red  
Claire Trevor, 8:00 p.m. Tues., CBS  
We, The People, 7:30 and 10:30 p.m. Thurs., CBS  
Witch's Tale, 10:30 p.m. Tues., MBS  
Your Unseen Friend, 8:00 p.m. Sat., CBS

### POPULAR PROGRAMS

American Album of Familiar Music, 9:30 p.m. Sun.,  
Red

Believe It Or Not, 8:00 and 12:00 p.m. Sat., Red  
Bicycle Party, 3:30 p.m. Sun., Red  
Major Bowes' Amateurs, 9:00 p.m. Thurs., CBS  
Major Bowes' Family, 11:30 a.m. Sun., CBS  
Brave New World, 10:30 p.m. Mon., 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  
Fireside Recitals, 7:30 p.m. Sun., Red  
Fun Bug, 2:00 p.m. Sun., CBS  
Gang Busters, 10:00 p.m. Wed., CBS  
Jack Haley's Variety Show, 8:30 p.m. Sat., Red  
Hammerstein Music Hall, 8:00 p.m. Fri., CBS  
Hobby Lobby, 7:15 and 10:30 p.m. Wed., CBS  
Hollywood Mardi Gras, 9:30 p.m. Tues., Red  
Hour of Charm, 9:30 p.m. Mon., Red  
Husbands and Wives, 8:00 p.m. Tues., Blue  
It Can Be Done, 8:30 p.m. Tues., Blue  
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  
Kraft Music Hall, 10:00 p.m. Thurs., Red  
Warden Lawes, 10:00 p.m. Mon., Blue  
Log Cabin Review, 8:30 p.m. Sat., Red  
Magic Key of RCA, 2:00 p.m. Sun., Blue  
Manhattan Merry-Go-Round, 9:00 p.m. Sun., Red  
March of Time, 8:30 p.m. Thurs., Blue  
MGM Program, 9:00 p.m. Thurs., Red  
Music From Hollywood, 8:30 and 11:30 p.m., Fri., CBS  
National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue  
Northern Messenger, 11:00 p.m. Sat., CBS  
Jack Oakie's College, 9:30 p.m. Tues., CBS  
L. Pantages Covers Hollywood, 1:45 and 11:00 p.m.  
Sun., CBS  
Poetic Melodies, 7:00 and 11:00 p.m. Mon. through  
Fri., CBS  
Pontiac Varsity Show, 9:00 p.m. Fri., Blue  
Professor Quiz, 9:00 and 12:00 p.m. Sat., CBS  
Radio News Reel, 3:00 p.m. Sun., Red  
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  
Texaco Town, 8:30 and 11:30 p.m. Wed., CBS

Time of Your Life, 5:30 p.m. Sun., Red  
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 and 10:30 p.m. Thurs., CBS  
Your Hit Parade, 10:00 p.m. Sat., CBS  
Your Hollywood Parade, 10:00 p.m. Wed., Red  
Zenith Foundation, 10:00 p.m. Sun., CBS

### SINGERS

Stuart Allen, 10:00 p.m. Sat., CBS  
Gene Austin, 6:00 p.m. Sun., CBS  
Kenny Baker, 7:00 and 11:30 p.m. Sun., Red  
Henry Burr, 9:00 and 11:00 p.m. Sat., Blue  
Rachel Carlay, 9:00 p.m. Sun., Red  
Kitty Carlisle, 10:00 p.m. Fri., CBS  
Jerry Cooper, 9:00 p.m. Fri., CBS  
Alice Cornett, 10:00 p.m. Fri., CBS  
Richard Crooks, 8:30 p.m. Mon., Red  
Bing Crosby, 10:30 p.m. Thurs., Red  
Frank Crumit, 10:00 p.m. Fri., CBS  
Jean Dickenson, 9:30 p.m. Sun., Red  
Deanna Durbin, 8:30 and 11:30 p.m. Wed., CBS  
Mary Eastman, 9:30 p.m. Sat., CBS  
Nelson Eddy, 8:00 p.m. Sun., Red  
Wilbur Evans, 7:00 p.m. Sun., CBS  
Alice Faye, 8:30 and 11:30 p.m. Fri., CBS  
Jack Fulton, 7:00 and 11:00 p.m. Mon. through Fri.,  
CBS

Freddie Gibson, 10:00 p.m. Sat., CBS  
Harriet Hilliard, 7:30 p.m. Sun., Blue  
Al Jolson, 8:30 and 11:30 p.m. Tues., CBS  
Red Kennedy, 10:00 p.m. Fri., CBS  
Dorothy Lamour, 8:00 p.m. Sun., Red  
Rosemary Lane, 10:00 p.m. Wed., Red  
Frances Langford, 9:00 p.m. Fri., CBS  
Pierre Le Kreun, 9:00 p.m. Sun., Red  
Niek Lucas, 9:00 and 12:00 p.m. Tues., CBS  
Lulaby Lady, 10:00 p.m. Mon., Red  
Lulu Belle, 9:00 and 11:00 p.m. Sat., Blue  
Jeanette MacDonald, 7:00 p.m. Sun., CBS  
Helen Marshall, 7:30 p.m. Sun., Red  
Smiling Ed McConnell, 5:30 p.m. Sun., Blue  
Luelle Manners, 8:00 p.m. Fri., Red  
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  
Dick Powell, 10:00 p.m. Wed., Red  
Martha Raye, 8:30 and 11:30 p.m. Tues., CBS  
Jane Rhodes, 9:30 p.m. Tues., Red  
Lanny Ross, 9:30 p.m. Tues., Red  
Kate Smith, 8:00 and 11:15 p.m. Thurs., CBS  
Margaret Speaks, 8:30 p.m. Mon., Red  
Marion Talley, 5:00 p.m. Sun., Red  
Virginia Verrill, 8:30 p.m. Sat., Red  
Bert Whaley, 8:30 p.m. Sun., Red

### TALKS

Boake Carter, 7:45 and 11:15 p.m. Mon., Wed., Fri.,  
CBS  
Jimmy Fidler, 10:30 p.m. Tues., Fri., Red  
Gabriel Heatter, 7:30 and 10:30 p.m. Thurs., CBS  
Gen. Hugh Johnson, 8:00 p.m. Mon., Thurs., Blue;  
10:00 p.m. Tues., Wed., Blue  
John B. Kennedy, 8:00 p.m. Sun., Blue  
Geo. McCall, 7:15 p.m. Tues., Thurs., CBS  
Elder Michaux, 9:00 p.m. Mon., MBS  
Robert L. Ripley, 8:00 and 12:00 p.m. Sat., Red  
Sidney Skolsky, 8:30 p.m. Wed., Blue  
Deems Taylor, 9:00 p.m. Wed., CBS  
Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue  
Dorothy Thompson, 10:45 p.m. Fri., Red  
Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

# The MONTH'S CHANGES in STATION DATA

This information is compiled just before we go to press, after the forms for most of the other pages are closed. Some very recent changes, received too late to index in this issue, are included here, and will be incorporated next month in our main indices.

NORTH AMERICAN BROADCAST NEW					
710	CMBL	Havana, Cuba. Radio Cadena Suaritos, Calle 25 No. 445, Vedado	930	CFAC	Calgary, Alta., 1000 from 100
1080	CJBR	Rimouski, P. Q. J. A. Brillant	1200	CKNX	Wingham, Ont., 100 from 50
1200	CMCK	Havana, Cuba. San Miguel 86	1450	CFCT	Victoria, B. C., 500 from 50
	CFGP	Grande Prairie, Alta. Northern Brdestg. Corp., 906 McLeod Bldg., Edmonton, Alta.			<b>REINSTATED</b>
1210	.....	Greenfield, Mass. John W. Haigis	580	CKUA	Edmonton, Alta., new CBC
1310	KPBM	Poplar Bluff, Mo. Fields McCarthy Co.	710	KIRO	Seattle, Wash., new CBS
1370	CFAR	Flin Flon, Man. Arctic Radio Corp., 120 Main St.	910	CBF	Montreal, P. Q., new NBC and CBC
.....		Owen Sound, Ont. Owen Sound Sun-Times	1030	CFCN	Calgary, Alta., new CBC
1420	CHLN	Three Rivers, P. Q. Three Rivers Le Nouvelliste	1050	CJBR	Rimouski, P. Q., new CBC
		<b>FREQUENCY</b>	1180	CBM	Montreal, P. Q., new Red
930	XEFO	Mexico City, D. F., from 940	1220	WDGY	Minneapolis, Minn., new CBS
1310	XEBO	Irapuato, Guan., from 1280	1230	KTMS	Santa Barbara, Calif., new Blue
		<b>POWER</b>	1230	KGBX	Springfield, Mo., new NBC
880	CFJC	Kamloops, B. C., 1000 from 100	1330	WSAI	Cincinnati, Ohio, NBC from Red
CMQ		Havana, Cuba, 25000 from 2500	1490	WCKY	Covington, Ky., NBC from Blue
			920	WRAX	Philadelphia, Pa.
					<b>OWNER</b>
			1240	CJCB	Sydney, N. S. Eastern Broadcasters, Ltd., Radio Bldg.

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## SHORTWAVE BROADCASTING STATIONS OF THE WORLD

Frequencies are given in megacycles. Power is given in parentheses in kilowatts. Schedules are shown in Eastern Standard Time by the 24-hour clock. All schedules daily unless otherwise noted.

1.715 to 2.000	Amateur Stations.	5.825	TIGPH	(also TIXGP3). San Jose, Costa Rica. 1100-1300; 1800-2200.	
2.500	XEXP	Monterrey, N. L. (.03).	5.850	YV1RB	Maracaibo, Venez. Sun., 1145-1245; Weekdays 0845-0945; 1115-1215; 1645-2145.
3.500 to 4.000	Amateur Stations.	5.855	H11J	San Pedro de Macoris, D. R. (.04). 1200-1400; 1830-2100.	
3.040	YDA	Tandjong Priok, Java, N.E.I. (.10).	5.875	HRN	Tegucigalpa, Honduras. (.4). Sun., 2030-2130. Weekdays 2030-2200.
4.273	RV15	Khabarovsk, USSR (Siberia). (.20). 0100-1000.	5.885	H19B	Santiago, D. R. 1800-2300.
4.600	HC2ET	Guayaquil, Ecuador. Wed., Sat., 2100-2230.	5.895	YV3RA	Barquisimeto, Venez. 1800-2200.
4.780	HJ1ABB	Barranquilla, Colombia (.3). Apartado 715.	5.905	TILS	San Jose, Costa Rica. 1800-2300.
4.787	HJ2ABC	Cucuta, Colombia. (.25). "La Voz de Cucuta."	5.913	YV4RH	Valencia, Venez. 1700-0100.
4.810	YDE2	Solo, Java, N.E.I. (.1).	5.925	HH2S	Port-au-Prince, Haiti. 1900-2200.
4.840	HJ3ABD	Bogota, Colombia. 1930-2400. Apto. 509.	5.935	YV1RL	Maracaibo, Venez. (.3). 1700-2230.
5.415	PMY	Bandoeng, Java, N.E.I. (.45). 0530-1000.	5.945	TG2X	Guatemala City, Guat. (.2). Sun., 1300-1400; Mon., Thurs., Sat., 1600-1800; 2200-2400.
5.500	T15HH	San Ramon, Costa Rica. (.2). 2000-2330.	5.947	PJ1C	Willemstad, Curacao, N.W.I. (.15) 1835-2035.
5.710	TGS	Guatemala City, Guat. (.2). Wed., Thurs., Sat., 1800-2100.	5.975	OAX4P	Huancayo, Peru. (.25).
5.735	HC1PM	Quito, Ecuador. Sat., 2100-2300.	5.980	HJ4ABD	Medellin, Colombia. 2000-2230.
5.763	YNOP	Managua, Nicaragua. 2000-2130.	5.990	HJ2ABD	Bucaramanga, Colombia. (.67). 1900-2300.
5.765	YV2RA	San Cristobal, Venez. 1800-2330.	6.000	CXA2	Montevideo, Uruguay. (.5).
5.800	YV5RC	Caracas, Venez. (1.). Sun., 0830-2330. Weekdays 0700-2230.		OAX5C	Ica, Peru. (1.).
5.813	TIGPH2	San Jose, Costa Rica.		XEBT	Mexico City, D. F. (1.). 1800-2400.

## SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.005	<b>CFCX</b> Montreal, P. Q. (.075). 0700-2400.	6.125	<b>CXA4</b> Montevideo, Uruguay. (1.). 1600-2145.
	<b>HP5K</b> Colon, Panama. 1800-2300.		<b>HP5H</b> Panama City, Panama
	<b>VE9DN</b> Montreal, P. Q. (6.).		<b>XEPW</b> Mexico City, D. F. 2100-2400.
	<b>XZ1GY</b> Rangoon, Burma.	6.128	<b>OAX7A</b> Cuzco, Peru. (1.).
6.010	<b>CJCX</b> Sydney, N. S. (1.).	6.130	<b>COCD</b> Havana, Cuba. (.35). 1700-0100
	<b>COCO</b> Havana, Cuba. (2.5) Sun., 2000-2200.		<b>VE9HX</b> Halifax, N. S. (.5). 1700-2300.
	Weekdays 1030-1300; 1600-2000.	6.132	<b>VP3BG</b> Georgetown, British Guiana.
	<b>OLR2A</b> Prague, Czechoslovakia (35.).	6.137	<b>CR7AA</b> Lourenco Marques, Port. East Africa. Sun. 0600-0900. Weekdays 9500-0700.
	Mon., Wed., Fri., 1600-1630.		
	.....		
6.012	<b>HJ3ABH</b> Bogota, Colombia. (1.2). 1800-2300.	6.138	<b>HJ4ABD</b> Medellin, Colombia.
6.015	<b>HI3U</b> Santiago de los Caballeros, D. R. (.025). Mon. 2000-2100. Daily 0730-0930; 1200-1430; 1700-1930.	6.140	<b>W8XK</b> Pittsburgh, Pa. (40.). 2200-sign off.
6.020	<b>DJC</b> Berlin, Germany. (50.). 1040-1630; 1650-2245	6.145	<b>HJ4ABE</b> Medellin, Colombia (1.). "La Voz de Antioquia," 1800-2230.
	<b>XEUW</b> Veracruz, Ver. (.02). 1800-2400.	6.150	<b>CJRO</b> Winnipeg, Man. (2.). 1800-2400.
6.025	<b>HJ1ABJ</b> Santa Marta, Colombia. (.05). 1800-2230.		<b>VPB</b> Colombo, Ceylon. (.3). Sun. 0700-1130; Weekdays 0630-1230.
6.030	<b>HP5B</b> Panama City, Panama. (.1). 1700-2200.	6.153	<b>HI5N</b> Ciudad Moca, D. R. (.1). 1900-2000.
	<b>OLR2B</b> Prague, Czecho. (35.).	6.156	<b>YV5RD</b> Caracas, Venez. 1030-1330; 1530-2200.
	<b>VE9BJ</b> St. John, N. B. (.05).	6.174	<b>XEXA</b> Mexico City, D. F. 1700-2100.
	<b>XEBQ</b> Mazatlan, Sin. (.05).	6.190	<b>HI1A</b> Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.
6.033	<b>HJ4ABP</b> Medellin, Colombia. (2.5). 1800-2300.	6.198	<b>HI8Q</b> Trujillo, D. R. 1700-1900.
6.038	<b>HJ1ABC</b> Barranquilla, Colombia. (.15). 1100-2300.	6.200	<b>COKG</b> Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.
6.040	<b>PRA8</b> Pernambuco, Brazil. (3.). 1500-2000.		<b>XEXS</b> Mexico City, D. F.
	<b>W1XAL</b> Boston, Mass. (10.). Daily exc. Sat. and Sun., 1900-2100.	6.205	<b>YV1RI</b> Coro, Venez. (.15). 1700-2200.
	<b>W4XB</b> Miami, Fla. (5.).	6.215	<b>TG2</b> Guatemala City, Guat.
	<b>YDA</b> Tandjong Priok, Java, N.E.I. (10.).	6.225	<b>YV1RG</b> Valera, Venez. 1730-1930.
6.050	<b>GSA</b> Daventry, Gt. Britain. (20.).	6.235	<b>HRD</b> La Ceiba, Honduras. (.25). 2000-2300.
	<b>HJ6ABA</b> Pereira, Colombia (6054 assigned). 1800-2200.	6.243	<b>HIN</b> Trujillo, D. R. (.75).
6.060	<b>VQ7I O</b> Nairobi, Kenya. 1100-2430.	6.250	<b>YV5RJ</b> Caracas, Venez.
	<b>W3XAU</b> Philadelphia, Pa. (10.). 2000-2300.	6.270	<b>YV5RP</b> Caracas, Venez. (1.2).
	<b>W8XAL</b> Cincinnati, Ohio. (10.). Daily 2300-0200. Sun. 0800-2000. Weekdays 0600-2000.	6.280	<b>HIG</b> Trujillo, D. R. (.05).
6.062	<b>SBG</b> Motala, Sweden. (.5). 1330-1700.	6.282	<b>COHB</b> Sancti-Spiritus, Cuba. (.15). 2100-2300.
6.064	<b>VP3MR</b> Georgetown, British Guiana. 1700-2100.	6.296	<b>OAX4G</b> Lima, Peru. (.4). 1900-2130.
6.065	<b>HP5F</b> Colon, Panama.	6.300	<b>YV4RD</b> Maracay, Venez. 1700-2300.
6.069	.....	6.310	<b>H14Z</b> Trujillo, D. R. (1).
6.070	<b>CFRX</b> Toronto, Ont. (1.). 1000-2300.	6.312	<b>ZP14</b> Villarrica, Paraguay (1.). 1100-1700.
	<b>HJ3ABF</b> Bogota, Colombia. (.05). 1900-2230.	6.330	<b>COCW</b> Havana, Cuba. 8700-2400.
	<b>YV1RD</b> Maracaibo, Venez. 1900-2400.	6.335	<b>OAX1A</b> Chiclayo, Peru. (.2). Daily 2000-2300; Sat. 2000-2400.
6.075	<b>XEBW</b> Guadalajara, Jal. (.045).	6.340	<b>HI1X</b> Trujillo, D. R. (.5). Tues., Fri., 2000-2200.
	<b>XECU</b> Guadalajara, Jal. (10.).	6.357	<b>HRP1</b> San Pedro Sula, Honduras.
6.077	<b>OAX4Z</b> Lima, Peru. (10.) (6082 assigned). 1900-2330.	6.365	<b>YV1RH</b> Maracaibo, Venez. 1900-2400.
6.080	<b>DJM</b> Berlin, Germany. (50.).	6.380	<b>YV5RF</b> Caracas, Venezuela.
	<b>VE9CS</b> Vancouver, B. C. (.01). 1400-2400.	6.400	<b>YV5RH</b> Caracas, Venezuela.
	<b>W9XAA</b> Chicago, Ill. (20.). Daily 1900-2200. Weekdays 0600-0730.	6.410	<b>TIPG</b> San Jose, Costa Rica. (1.). 1800-2230.
6.085	<b>HJ5ABD</b> Cali, Colombia. 1900-2200.	6.416	<b>YV6RC</b> Bolivar, Venez.
6.090	<b>CRCX</b> Toronto, Ont. (1.). 1100-1900.	6.420	<b>HI1S</b> Santiago, D. R. (.02). 1800-2300.
	<b>HJ4ABC</b> Ibague, Colombia. 2000-2200.	6.425	<b>OAX4K</b> Lima, Peru. (2).
6.095	<b>ZGE</b> Kuala Lumpur, F.M.S.		<b>W3X1L</b> Bound Brook, N. J. (100.). Irreg
6.100	<b>W3XAL</b> Bound Brook, N. J. (35.). 2100-0100.	6.450	<b>W10XDA</b> Effie M. Morrissey (1).
	<b>W9XF</b> Chicago, Ill. (10.). 1700-2005.		<b>HI4V</b> San Francisco de Macoris, D. R. (.025).
	.....	6.479	<b>H18A</b> Trujillo, D. R.
	<b>XEFT</b> Veracruz, Ver. (.012).	6.485	<b>HI1L</b> Santiago de los Caballeros, D. R. "Emisora Nacional." 0630-0800; 1730-1900; 2000-2100.
6.108	<b>HJ4ABB</b> Manizales, Colombia. 1800-2400.	6.479	<b>H18A</b> Trujillo, D. R.
6.110	<b>GSL</b> London, Gt. Britain. (20.).	6.500	<b>H1L</b> Trujillo, D. R. (.05).
6.115	<b>OLR2C</b> Prague, Czecho. (35.).	6.508	<b>YV1RM</b> Maracaibo, Venez.
6.118	<b>XEUZ</b> Mexico City, D. F. (5.). 2300-0300.	6.520	<b>YV4RB</b> Valencia, Venezuela. 1700-2200.
6.120	<b>W2XE</b> New York, N. Y. (10.).	6.534	<b>EDR4</b> Palma, Majorca, Balearic Isl.
	<b>YDA5</b> Bandoeng, Java, N.E.I. (1.5).	6.540	<b>YN1GG</b> Managua, Nicaragua.
6.122	<b>HJ3ABX</b> Bogota, Colombia. 1730-2230.	6.545	<b>YV5RB</b> Bolivar, Venez. 2100-2300.
	<b>OAX6A</b> Arequipa, Peru. (1.).	6.550	<b>TI1RC</b> San Jose, Costa Rica. (.5). Tues., Thurs., Sat. 1700-1800.
		6.555	<b>HI4D</b> Trujillo, D. R. (.025). 1700-2000.
		6.622	<b>Prado</b> Rio Bamba, Ecuador. Thur. 2100-2300.

## SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.630	<b>HIT</b>	Trujillo, D. R. (.2). Weekdays, 1800-2100.	5.520	<b>HJ4ABH</b>	Armenia, Colombia. (1.). 0800-1100; 1800-2200.
6.635	<b>HC2RL</b>	Guayaquil, Ecuador. Sun. 1745-1945. Tues. 2115-2315.		<b>OZF</b>	Copenhagen, Denmark. 1400-1815.
6.690	<b>TIEP</b>	San Jose, Costa Rica. 1600-2300.		<b>YSH</b>	San Salvador, E. S.
6.700	<b>TIVL</b>	San Jose, Costa Rica.	5.525	<b>ZBW3</b>	Radio Liberte. 1900-2000.
6.720	<b>PMH</b>	Bandoeng, Java, N.E.I. (1.5).			Hong Kong. (2.5). Sat. 2100-2400.
6.730	<b>HI3C</b>	La Romana, D. R. 1745-2000.	5.530	<b>LKJ1</b>	Sun. 0000-0100; 0300-0930. Other
6.780	<b>HIH</b>	San Pedro de Macoris, D. R. (.15). 1900-2000.		<b>W2XAF</b>	days 0400-1000; 2330-0100.
6.800	<b>HI7P</b>	Trujillo, D. R. 1930-2100.			Jeloy, Norway. (1.). 0500-0800.
	<b>PZH</b>	Paramaribo, N. W. I.			Schenectady, N. Y. (46.). Sat. 1200-
6.850	<b>T10W</b>	Puerto Limon, Costa Rica. (.4). Sun., 1600-1700. Daily 1200-1300.	5.535	<b>JZ1</b>	2400. Other days 1600-2400.
6.990	<b>VK8XI</b>	Port Moresby, Papua. (Doubtful).			Belmont, Calif. (20.). General
7.000	<b>7.300</b>	Amateur stations.	5.536	<b>VPD2</b>	Elec. Co. (Under construction).
7.100	<b>FO8AA</b>	Papeete, Tahiti. (.2). Tues., Fri. 2300-2400.	5.540	<b>DJN</b>	Nazaki, Japan. (50.). 1500-1600;
		Guadalajara, Jal. "Voice of the			1630-1730.
		Revolutionary Party."	5.550	<b>OLR3A</b>	Suva, Fiji. (2.). 0530-0700.
		Mexico City, D. F. (20.). Sun.,	5.540	<b>XEFT</b>	Berlin, Germany. (50.). 0005-1000;
		1800-2000.	5.560	<b>DJA</b>	1657-2245.
		Radio Liberte. 1900-2000.			Prague, Czecho. (35.). 1430-1630.
7.540	<b>RKI</b>	Moscow, U. S. S. R. (Assigned 7520).			Veracruz, Ver. (.02). 1930-2400.
7.625		Johannesburg, U. of S. Africa.			Berlin, Germany. (50.). 0005-1100;
		(5.). 2345-0030.			1657-2245.
7.797	<b>HBP</b>	Geneva, Switz. (20.). Sat., 1730-1830.			<b>HJ1ABB</b>
7.894	<b>YSD</b>	San Salvador, E. S. 2100-2230.			Barranquilla, Colombia. (.3).
8.400	<b>HC2CW</b>	Guayaquil, Ecuador.			Souraya I, Java, N.E.I. (1.).
8.580	<b>YNPR</b>	Managua, Nicaragua. "Radio Pilot"	5.562	<b>OAX4T</b>	Lima, Peru. (10.). 1130-1330.
		Quito, Ecuador.	5.565	<b>VUB</b>	Bombay, India. (4.5).
8.600	<b>HC1EC</b>	Effie M. Morrissey. (.1).		<b>YV3RB</b>	Barquisimeto, Venez.
8.655	<b>WOXDA</b>	Camaguey, Cuba. (2.4). 1800-0100.	5.570	<b>KZRM</b>	Manila, P. I. 0400-1000.
8.665	<b>COJK</b>	Quito, Ecuador. (.15). Mon., Wed.,		<b>W1XK</b>	Boston, Mass. (10.). Sun. 0800-
8.950	<b>HCJB</b>	Sat., 0200-0400; 1300-1500.			0100. Weekdays 0600-0100.
9.030	<b>COBZ</b>	Havana, Cuba.			Pittsburgh, Pa. (40.). (Not used).
9.100	<b>COBX</b>	Havana, Cuba.	5.580	<b>GSC</b>	Daventry, Gt. Britain. (20.). 1800-
9.125	<b>HAT4</b>	Budapest, Hungary. (20.). Sun.,			2030; 2100-2300.
9.195	<b>COBZ</b>	Wed., 1900-2000. Sat., 1800-1900.			<b>VK3LR</b>
9.340	<b>OAX4J</b>	Havana, Cuba.			Melbourne, Australia. (.5). 0100-
9.345	<b>HBL</b>	Lima, Peru. (.2). 1200-1500; 1700-0100.	5.590	<b>PCJ</b>	0945.
9.345		Geneva, Switz. (20.). Fri. 1430-1445; 1930-1945; 2000-2015.			<b>Huizen</b> , Netherlands. (20.). Sun.
9.350	<b>COBC</b>	Havana, Cuba. Apto. 132.			1430-1530; 1900-2115; Mon. 2100-
	<b>HS8PJ</b>	Bangkok, Siam. Mon., Thurs.,			2230; Tues., 1400-1530; 1900-2130;
		0730-1000.			Wed., 1900-2130; Thurs., 1900-2130.
9.415	<b>PJC2</b>	Willemstad, Curacao, N.W.I.			<b>VK2ME</b>
	<b>PLV</b>	Bandoeng, Java, N.E.I. (80.). 1000-1100.			Sydney, Australia. (20.). Sun.,
9.428	<b>COCH</b>	Havana, Cuba. (.15). 0700-0100.			0030-0230; 0430-0830; 0930-1130.
9.445	<b>HC2RA</b>	Guayaquil, Ecuador. Sun. 1600-2200. Daily 2100-2200.			<b>VK6ME</b>
9.450	<b>HC2ODA</b>	Guayaquil, Ecuador. 2100 2200.			Pertn, Australia. (5.). Weekdays
9.460	<b>XGOX</b>	Nanking, China. (5).			0600-0800.
9.470	<b>PJC1</b>	Willemstad, Curacao, N.W.I. (.15). Sun. 1035-1235.			<b>W2XE</b>
9.480	<b>EAR</b>	Madrid, Spain. (20.). Mon. at 2000; Tues., Fri. at 2100.			New York, N. Y.
	<b>XEDQ</b>	Guadalajara, Jal. 1900-0100.			<b>W3XAU</b>
9.500	<b>EAC</b>	Madrid, Spain.			Philadelphia, Pa. (10.). 1200-2000;
	<b>HJ1ABE</b>	Cartagena, Colombia. 1700-1800; 2000-2230.			Thurs., 2200-2300.
	<b>XEWW</b>	Mexico City, D. F. (10.). 0800-2400.			<b>W8XAL</b>
9.501	<b>PRF5</b>	Rio de Janeiro, Brazil. (60.). 1645-1745.	5.595	<b>HBL</b>	Cincinnati, Ohio. (10.). (Under
9.504	<b>OLR3B</b>	Prague, Czecho. (35.).			construction).
9.510	<b>GSB</b>	Daventry, Gt. Britain. (20.). 0315-0530; 1220-1545; 1600-2030; 2100-2300.			Geneva, Switzerland. (18.). Sat.
	<b>HJU</b>	Buenaventura, Colombia. Mon.,			1730-1830.
	<b>HS8PJ</b>	Wed., Fri. 2000-2300.	9.600	<b>RAN</b>	Moscow, USSR. 1900-2115.
		Bangkok, Siam. Mon., Thurs.,	9.605	<b>CB960</b>	Santiago, Chile. 1800-1930.
		0800-1000.		<b>HP5J</b>	Panama City, Panama. (1.). 1830-
	<b>VK3ME</b>	Melbourne, Australia. (5.). Week-			2300.
		days 0400-0700.	9.618	<b>HJ1ABP</b>	Cartagena, Colombia. (.75). 1800-
					2200.
			9.625		Johannesburg, U. of S. Africa (5.).
					2345-0030.
			9.630	<b>HJ7ABD</b>	Bucaramanga, Colombia. "Radio
					Bucaramanga."
					Taihoku, Taiwan. 0430-1030.
					Rome, Italy. (25.). 1230-2100.
			9.645	<b>HH3W</b>	Montevideo, Uruguay. 0700-2400.
					Port-au-Prince, Haiti. (.03). 1300-
					1400; 1900-2000.
			9.650	<b>CS2WA</b>	Lisbon, Portugal. (2.). Tues.,
					Thurs., Sat., 1600-1900.
			9.660	<b>CR6AA</b>	Lobito, Angola, Port. West Africa.
					(.5). Wed., Sat., 1445-1645.
					<b>LRX</b>
					Buenos Aires, Argentina. (5.).
					1030-2430.
			9.670	<b>T14NRH</b>	Heredia, Costa Rica. 2100-2200;
					2330-2400.
			9.685	<b>TGWA</b>	Guatemala City, Guat. (10.).
					"Radio Nacional." Sun., 0000-0600.
					Daily 2000-2400.
			9.700	<b>COCA</b>	Havana, Cuba. Relays CMCA.

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

9.730	.....	"Radio Martinique," Fort de France, Mart. 1845-1945.	11.810	I2RO	Rome, Italy. (25.). 0500-1220.
9.750	COCQ	Havana, Cuba. 0700-0100.	(1.820)	GSN	Daventry, Gt. Britain.
9.830	COCM	Havana, Cuba. (Assigned 9833).	11.830	KZRM	Manila, P. I.
9.860	EAQ	Madrid, Spain. (20.).		W2XE	New York, N. Y. (10.). Daily 1830-1900. Sun. 1900-2400.
9.925	JDY	Darien, Manchukuo. 0715-0800.		W9XAA	Chicago, Ill. (20.).
9.940	CSW	Lisbon, Portugal. (5.). 1900-2000.	11.840	CSW	Lisbon, Portugal. (5.).
10.065	CQN	Macau, Portuguese China.		KZRM	Manila, P. I. 0400-1000.
10.070	.....	Communitistic Station.		OLR4A	Prague, Czecho. (35.). Mon., Thurs., 1900-2100. Daily 1400-1415.
10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530-1100.	11.855	DJP	Berlin, Germany. (50.).
10.330	ORK	Brussels, Belgium. (11.). 1330-1500.	11.860	GSE	Daventry, Gt. Britain. (20.).
10.370	EAJ43	Santa Cruz de Tenerife, Canary Isl. 2000-2100.		YDB	Soerabaya I, Java, N.E.I. (1.).
	.....	"Radio Nacional," Salamanca, Spain. 1700-1825; 2000-2045.	11.870	W8XK	Pittsburgh, Pa. (40.). 1900-2200.
10.430	.....	Pirate station announcing "Radio Nifan."	11.875	OLR4C	Prague, Czecho. (35.).
10.530	JIB	Taihoku, Taiwan. (6.). 0900-1030.	11.885	TPA3	Pontoise, France. 0200-0500; 1215-1800.
10.600	ZIK2	Belize, British Honduras.	11.895	HP5I	Aguadulce, Panama. 1930-2130.
10.660	JVN	Nazaki, Japan. (50.).	11.900	CD1190	Valdivia, Chile. 1000-1300; 1900-2200.
10.670	CEC	Santiago, Chile. (4.).		OLR4D	Prague, Czecho. (35.).
10.740	JVM	Nazaki, Japan. (50.).		XEWI	Mexico City, D. F. (.25). 1930-2400.
10.823	"Radio Nacional," Salamanca, Spain. 1630-1800.		11.955	IUC	Addis Ababa, Ethiopia.
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).	11.960	HI2X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200. Sun. 0740-1040.
11.040	CSW	Lisbon, Portugal. (5.). 1500-1900.	12.000	RNE	Moscow, USSR. (20.). Sun. 1000-1100. Sun., Wed., 0600-0700. Sun., Mon., Wed., Fri., 1600-1700.
11.402	HBO	Geneva, Switz., Fri. 1400-1415; Sat. 1845-2030.	12.120	.....	Algiers, Algeria.
11.435	COCX	Havana, Cuba. Sun. 1800-2100. Other days 0800-2400.	12.235	TFJ	Reykjavik, Iceland. (7.5). Sun., 1345-1430.
11.500	SPD	Warsaw, Poland. (2.). Daily 1800-1900. Sun. until 2000.	12.290	GBU	Rugby, Gt. Britain.
11.698	SBG	Motala, Sweden. (.5). 0100-0130.	12.295	CB615	Santiago, Chile.
11.700	CB1170	Santiago, Chile. 1000-1400; 1530-2300.	12.500	HIN	Trujillo, D. R. (.75).
	HP5A	Panama City, Pan. (.5). 2000-2330.	13.635	SPW	Warsaw, Poland. (10.). Mon., Wed., Fri., 1230-1330. Daily 1800-1900.
	.....	Saigon, Fr. Indo-China. 0500-1100.	13.986	DJS	Berlin, Germany. (20.).
11.710	XEWB	Guadalajara, Jal.	14.000 to 14.400		Amateur Stations.
	YSM	San Salvador, E. S.	14.400	UPOL	North Pole. 1400-1605.
11.713	TPA4	Pontoise, France. 0615-1300.	14.535	HBJ	Geneva, Switz. Sat. 1845-2100.
11.718	CR7BH	Lourenco Marques, Port. East Africa. (.2). Sun. 0530-0700. Other days 0430-0630.	14.900	LZA	Sofia, Bulgaria.
11.720	CJRX	Winnipeg, Man. (2.). 1800-2400.	15.040	RKI	Moscow, USSR. 1900-2115.
11.730	PHI	Hilversum, Netherlands. (23.6). Villahermosa, Tab.	15.110	DJL	Berlin, Germany. (50.). 0000-0200; 0800-0900; 1040-1630. Sun., 0600-0800.
11.740	HP5L	David, Panama. (.35).	15.116	OLR5C	Prague, Czecho. (35.).
11.750	GSD	Daventry, Gt. Britain. (20.). 0315-0530; 1045-1200; 1220-1545; 1600-2030; 2100-2300.	15.120	HVJ	Vatican City. (10.). 1000-1030.
11.760	OLR4B	Prague, Czecho. (35.).	15.140	GSF	Daventry, Gt. Britain. (15.). 0915-1200.
	TGWA	Guatemala City, Guat. (10.). Mon., Thurs., 2000-2200.	15.150	YDC	Bandoeng, Java, N.E.I. (3.).
11.770	DJD	Berlin, Germany. (50.). 1040-1630; 1650-2245.	15.160	JZK	Nazaki, Japan. (50.).
11.790	W1XAL	Boston, Mass. (10.). Sat. 1345-1830. Sun. 1500-1800. Other days 1645-1830.		XEWV	Mexico City, D. F. (10.).
11.795	DJO	Berlin, Germany. (8.).	15.170	CXA14	Montevideo, Uruguay.
11.796	OAX5A	Ica, Peru. (.1). 1200-1600; 1900-2330.		TGWA	Guatemala City, Guat. (10.).
11.800	COGF	Matanzas, Cuba. (1.). 1300-1600; 1800-2200.	15.175	RV96	Moscow, USSR.
	JZJ	Nazaki, Japan. (50.). 1500-1600; 1630-1730; 0800-0900; 0030-0130.	15.180	GSO	Daventry, Gt. Britain. 0315-0530; 0545-0855; 1600-1800.
	OER2	Vienna, Austria. (1.5). Weekdays 0900-1800.	15.200	DJB	Berlin, Germany. (8.). Sun. 1110-1225. Daily 0005-1100; 1650-2245.
11.805	.....	Copenhagen, Denmark. 1830-2100.	15.210	W8XK	Pittsburgh, Pa. (40.). 0900-1900.
			15.220	PCJ	Huizen, Netherlands. (20.). Sun. 0330-0500. Wed. 0800-1030.
			15.230	OLR5A	Prague, Czecho. (35.). 0930-1130.
			15.243	TPA2	Pontoise, France. 0600-1100.
			15.250	W1XAL	Boston, Mass. (18.). Fri. 2100-

## SHORTWAVE BROADCASTING STATIONS OF THE WORLD

	2200; Sun. 1015-1200; Daily exc. Sat. and Sun. 1415-1600.	W8XK Pittsburgh, Pa. (40.).	W9XAA Chicago, Ill. (5.).
15.260 GSI	Daventry, Gt. Britain. 1220-1545; 2100-2300.	W9XF Chicago, Ill. (10.).	
15.270 HI3X	Trujillo, D. R. (.5). Sun., 0800-1100.	17.790 GSG	Daventry, Gt. Britain. (15.). 0315-0530; 0545-0855; 0915-1200; 1220-1545.
W2XE	New York, N. Y. (10.). Sat., Sun. 1430-1800; 2000-2400. Mon. through Fri. 1300-1800; 2030-2400.	19.020 HS8PJ	Bangkok, Siam. (5.). Mon. 0800-1000.
15.280 DJQ	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0545; 0600-0800; 0815-1100; 1650-2245.	21.450 OLR6A	Prague, Czecho. (35.).
15.290 LRU	Buenos Aires, Arg. (5.). 0800-1000.	21.460 W1XAL	Boston, Mass. (10.). Tests irregularly.
15.300 XEBM	Mazatlan, Sin. 1000-2300.	21.470 GSH	Daventry, Gt. Britain. 0545-0855; 0915-1200.
15.310 GSP	Daventry, Gt. Britain. 1345-1545.	21.480 W2XAD	Schenectady, N. Y. (25.).
15.320 OLR5B	Prague, Czecho. (35.).	21.520 W2XE	New York, N. Y. (10.). Sat., Sun., 0800-1300; Other days 0730-1000. Philadelphia, Pa.
15.330 W2XAD	Schenectady, N. Y. (25.). 1100-2100. Belmont, Calif. (20.). (Under construction).	W3XAU	
15.340 DJR	Berlin, Germany. (50.). 0800-0900; 1650-2245.	21.530 GSJ	Daventry, Gt. Britain. 0545-0855; 0915-1030.
15.370 HAS3	Budapest, Hungary. (20.). Sun. 0900-1000.	21.540 W8XK	Pittsburgh, Pa. (40.). 0700-0900.
15.440 XEBM	Mazatlan, Sin. (.05). 1000-2300.	21.550 GST	Daventry, Gt. Britain.
15.555 CO9WX	Tuinicu, Cuba. (2.).	25.950 W4XH	Spartanburg, S. C. (.05) (WSPA).
17.310 W3XL	Bound Brook, N. J. (20.).	W6XKG	Los Angeles, Calif. (.1) (KGFJ). 24 hours daily.
17.760 DJE	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-1000.	W9XUP	St. Paul, Minn. (1.) (KSTP).
W2XE	New York, N. Y. (10.). 1830-2000.	26.100 GSK	Daventry, Gt. Britain.
17.770 PHI	Hilversum, Netherlands. (23.6). Sun., 0725-1025. Mon., Tues., Thurs., Fri., 0825-1000. Sat., 0825-1040.	W9XJL	Superior, Wis. (.08) (WEEC).
17.780 W3XAL	Bound Brook, N. J. (35.). 0855-1745; 1800-2100.	26.400 W9XAZ	Milwaukee, Wis. (.5) (WTMJ). 1300-2400.
		26.550 W2XQO	Flushing, N. Y. (.1) (WMCA).
		27.100 W10XDA	Effie M. Morrissey (.1).
		28.000 to 30.000	Amateurs.
		56.000 to 60.000	Amateurs.
		110.000 to infinity.	Amateurs.

## 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.



# NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

## 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 **waves** in third column. Daytime power is shown in parentheses in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

### Second Column Symbols

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

- n Weather or time only.
- z No information available.

### Fourth Column Symbols

- B National "Blue" network.
- C Columbia network.
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Brdcastg. Corp.
- M Mutual Brdcastg. Sys.
- N National "Red" and "Blue" networks.
- P Has construction permit only.

- R National "Red" network.
  - S Sunday only.
  - Sy Synchronized.
  - X Has permit to increase power.
  - Y Has permit to change location.
  - Z Has permit to change frequency.
- a-b-c. Small letters show stations using same transmitter.  
1-2-3. Figures denote stations sharing time.  
.... No information.

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

## 540 kcys. (555.2)

CJRM ak 1000 F Regina, Sask. —9:30 am—1:30 am

## 550 kcys. (545.1)

CFNB	mk	500	F (1)	Fredericton, N. B.	—7:00 am—11:00 pm
KFUO	ak	500	2 (1)	St. Louis, Mo.	—8:00 am—Midnight
KFYR	ak	1000	N (5)	Bismarck, N. Dak.	—8:00 am—1:00 am
KOAC	ak	1000		Corvallis, Ore.	—Noon—Midnight
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.	—7:00 am—midnight
WKRC	ak	1000	C (5)	Cincinnati, Ohio	
WSVA	ak	500	D	Harrisonburg, Va.	
XEFC	ak	100	....	Merida, Yuc.	

## 560 kcys. (535.4)

KFDM	ak	500	(1) N	Beaumont, Texas	—8:30 am—2:00 am
KLZ	ak	1000	C (5)	Denver, Colo.	—10:00 am—4:00 am
KSFO	ak	1000	C (5)	San Francisco, Cal.	
KWTO	ak	5000	D	Springfield, Mo.	
WFIL	ak	1000	BM	Philadelphia, Pa.	—7:00 am—midnight
WIND	ak	1000	(5)	Gary, Ind.	—6:00 am—4:00 am
WIS	ak	1000	N (5)	Columbia, S. C.	—7:00 am—midnight
WQAM	ak	1000	C	Miami, Fla.	—7:00 am—midnight

## 570 kcys. (526.0)

CMCY	ak	5000	...	Havana, Cuba	
KGKO	ak	250	CY (1)	Wichita Falls, Tex.	
KMTR	ak	1000	...	Los Angeles, Calif.	
KVI	ak	1000	C (5)	Tacoma, Wash.	—9:00 am—3:00 am
WKBN	ak	500	CI	Youngstown, Ohio	
WMCA	ak	1000	...	New York, N. Y.	
WNAX	ak	1000	C (5)	Yankton, S. Dak.	
WOSU	ak	750	1 (1)	Columbus, Ohio	—9:00 am—11:00 pm
WSYR	ak	1000	B (WSYU)	Syracuse, N. Y.	—7:00 am—1:00 am
WWNC	ak	1000	N	Asheville, N. C.	—7:30 am—1:00 am

## 580 kcys. (516.9)

CFPR	ak	50	...	Prince Rupert, B. C.	—8:00 am—midnight
CHRC	ak	100	...	Quebec, P. Q.	—8:00 am—midnight
CKCL	ak	100	F	Toronto, Ont.	—8:00 am—midnight
CKUA	ak	500	...	Edmonton, Alta.	
KMJ	ak	1000	N	Fresno, Calif.	—10:00 am—3:00 am

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KSAC	ak	500	2 (1)	Manhattan, Kans.	-10:30 am-6:30 pm
WCHS	ak	500	C (1)	Charleston, W. Va.	
WDBO	ak	1000	C	Orlando, Fla.	-7:00 am-midnight
WIBW	ak	1000	2C (5)	Topeka, Kans.	
WILL	ak	1000	D	Urbana, Ill.	-9:00 am-ss
WTAG	ak	1000	R	Worcester, Mass.	-7:30 am-1:00 am
XEMU	z	....	....	Piedras Negras, Coah.	

### 590 kcys. (508.2)

KHQ	ak	1000	R (5)	Spokane, Wash.	
WEEL	ak	1000	C (5)	Boston, Mass.	
WKZO	ak	1000	BDX	Kalamazoo, Mich.	
WOW	ak	1000	R (5)	Omaha, Nebr.	-7:00 am-3:30 am

### 600 kcys. (499.7)

CBW	ak	500	F (1)	Windsor, Ont.	-4:30 pm-11:30 pm
CFCF	ak	500	BF	Montreal, P. Q.	
CJOR	ak	500	....	Vancouver, B. C.	-7:45 am-1:00 am
CMW	ak	1400	....	Havana, Cuba	-7:00 am-midnight
KFSD	ak	1000	B	San Diego, Calif.	
WCAO	ak	500	C (1)	Baltimore, Md.	
WICC	ak	500	BM (1)	Bridgeport, Conn.	-7:00 am-1:00 am
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa	-6:30 am-1:00 am
WREC	ck	1000	C (5)	Memphis, Tenn.	-7:30 am-1:00 am

### 610 kcys. (491.5)

KFRC	c	1000	M (5)	San Francisco, Cal.	
WCLE	ak	500	DM	Cleveland, Ohio.	-7:00 am-ss
WDAF	ak	1000	R (5)	Kansas City, Mo.	-7:30 am-1:00 am
WIOD	ak	1000	N(WMBF)	Miami, Fla.	
WIP	ak	1000	....	Philadelphia, Pa.	-7:00 am-1:00 am

### 620 kcys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	-9:00 am-2:00 am
KTAR	ak	1000	N	Phoenix, Ariz.	-9:00 am-1:15 am
WFLA	ak	1000	Na (5)	Clearwater, Fla.	-7:00 am-1:00 am
WHJB	ak	250	CD	Greensburg, Pa.	-8:00 am-5:00 pm
WLBZ	ak	500	CM (1)	Bangor, Maine	
WSUN	ak	1000	Na (5)	St. Petersburg, Fla.	-7:00 am-1:00 am
WTMJ	ak	1000	N (5)	Milwaukee, Wis.	-7:15 am-1:00 am

### 630 kcys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	-8:00 am-10:30 pm
CFCY	ak	1000	F	Charlottetown, P.E.I.	-9:00 am-11:00 pm
CJRC	ak	500	F (1)	Winnipeg, Man.	-8:30 am-12:30 am
CKOV	ak	100	F	Kelowna, B. C.	-11:00 am-1:30 am
CMBC	z	....	....	Havana, Cuba	-6:55 am-midnight
KFRU	ak	500	I (1)	Columbia, Mo.	-7:00 am-9:30 pm
KGFX	ak	200	D	Pierre, S. Dak.	
WGBF	ak	500	N1 (1)	Evansville, Ind.	
WMAL	ak	250	B (.5)	Washington, D. C.	-7:00 am-2:00 am
WPRO	ak	500	C (1)	Providence, R. I.	-7:00 am-1:00 am
XEZ	z	500	....	Merida, Yuc.	

### 640 kcys. (468.5)

CMCB	ak	150	....	Havana, Cuba	
KFI	ak	50000	R	Los Angeles, Calif.	-9:45 am-3:00 am
WGAN	z	500	DP	Portland, Maine	
WHKC	ak	500	....	Columbus, Ohio	-6:30 am-8:15 pm
WOI	ak	5000	D	Ames, Iowa	
XEBX	z	250	....	Sabinas, Coah.	

### 650 kcys. (461.3)

WSM	ak	50000	MN	Nashville, Tenn.	-7:30 am-1:00 am
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**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

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**660 kcys. (454.3)**

WAAW	ak	500	D	Omaha, Nebr.	-7:00 am—ss
WEAF	ak	50000	R	New York, N. Y.	-7:30 am—1:00 am
XEAL	z	1000	...	Mexico City, D. F.	
XEAO	ak	250	....	Mexicali, B. Cfa.	

**670 kcys. (447.5)**

WMAO	ak	50000	R	Chicago, Ill.	-7:00 am—1:00 am
XELO	ak	5000	..	Tijuana, B. Cfa.	

**680 kcys. (440.9)**

CMCG	ak	1000	....	Havana, Cuba	-7:00 am—midnight
KFEQ	ak	2500	D	St. Joseph, Mo.	-7:00 am—ss
KPO	ak	50000	R	San Francisco, Cal.	-11:00 am—3:00 am
VAS	akn	2000	685	Glace Bay, N. S.	
VOWR	ck	500	681	St. John's, Nfld.	
WLAW	z	1000	DP	Lawrence, Mass.	
WPTF	ak	1000	N (5)	Raleigh, N. C.	-7:00 am—11:00 pm

**690 kcys. (434.5)**

CFRB	ak	10000	C	Toronto, Ont.	-8:00 am—midnight
CJCJ	ak	100	F	Calgary, Alta.	-9:30 am—1:00 am
XET	ak	5000	....	Monterrey, N. L.	-8:30 am—10:00 pm

**700 kcys. (428.3)**

WLW	ak	500000	MN (W8XO)	Cincinnati, O.	-6:30 am—1:30 am
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**710 kcys. (422.3)**

CMBL	z	....	....	Havana, Cuba	-8:00 am—12:15 am
KIRO	ak	1000	C	Seattle, Wash.	-9:00 am—5:00 am
KMPC	ak	500	....	Beverly Hills, Calif.	-9:00 am—4:00 am
WOR	ak	50000	M	Newark, N. J.	

**720 kcys. (416.4)**

WGN	ak	50000	M	Chicago, Ill.	
XEH	ak	250	....	Monterrey, N. L.	-10:00 am—9:00 pm

**730 kcys. (410.7)**

CFPL	ak	100	F	London, Ont.	-9:00 am—3:00 am
CJCA	ak	1000	F	Edmonton, Alta.	-9:00 am—2:00 am
CKAC	ak	5000	C	Montreal, P. Q.	-7:30 am—1:00 am
CKPR	ak	100	F	Fort William, Ont.	-9:00 am—11:00 pm
CMK	ak	3000	....	Havana, Cuba	
XEPN	ak	100000	....	Piedras Negras, Coah.	

**740 kcys. (405.2)**

KMMJ	ak	1000	D	Clay Center, Nebr.	
KTRB	ak	250	D	Modesto, Calif.	-9:00 am—8:30 pm
WHEB	ak	250	D	Portsmouth, N. H.	
WSB	ak	50000	R	Atlanta, Ga.	-6:55 am—1:00 am

**750 kcys. (399.8)**

CMCW	dk	150	....	Havana, Cuba	
KGU	aj	2500	N	Honolulu, Hawaii	-11:30 am—4:30 am
WJR	ak	50000	C	Detroit, Mich.	-5:30 am—2:00 am
XEAA	ak	200	....	Mexicali, B. Cfa.	
XEAM	z	25	....	Matamoros, Tams.	

**760 kcys. (394.5)**

CKY	ak	15000	F	Winnipeg, Man.	-8:00 am—1:00 am
CMHX	ak	200	....	Cienfuegos, Cuba	

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KXA	ak 250	(5)	Seattle, Wash.	
WBAL	ak 2500	BMSy	Baltimore, Md.	-9:00 pm-1:00 am
WEW	ak 1000	D	St. Louis, Mo.	-8:00 am-ss
WJZ	ak 50000	BSy	New York, N. Y.	-7:30 am-1:00 am
XEOK	ak 2500	....	Tijuana, B. Cfa.	

### 770 keys. (389.4)

CMBS	ak 150	....	Havana, Cuba	-8:00 am-10:30 pm
KFAB	ak 10000	CSy	Lincoln, Nebr.	-7:00 am-1:00 am
WBBM	ak 50000	CSy	Chicago, Ill.	

### 780 keys. (384.4)

CHWK	dk 100	F	Chilliwack, B. C.	-11:00 am-1:15 am
CKSO	ak 1000	F	Sudbury, Ont.	-9:00 am-midnight
CMJK	ak 250	....	Camaguey, Cuba	-11:00 am-10:00 pm
KEHE	ak 1000	(5)	Los Angeles, Calif.	
KFDY	ak 1000	D	Brookings, S. Dak.	-1:30 pm-3 pm
KFQD	ck 250	....	Anchorage, Alaska	
KGHL	ak 1000	N (5)	Billings, Mont.	-10:00 am-1:00 am
KWLK	z 250	DP	Longview, Wash.	
WEAN	ak 1000	BM	Providence, R. I.	
WMC	ak 1000	R (5)	Memphis, Tenn.	-7:45 am-1:00 am
WTAR	ak 1000	N	Norfolk, Va.	
XEL	z 1000	....	Mexico City, D. F.	

### 790 keys. (379.5)

CMGH	ak 500	....	Matanzas, Cuba	-10:00 am-3:00 am
KGO	ak 7500	B	San Francisco, Cal.	-7:00 am-1:00 am
KOAM	z 1000	DN	Pittsburg, Kans.	
WGY	ak 50000	R	Schenectady, N. Y.	-7:00 am-1:00 am

### 800 keys. (374.8)

WBAP	ak 50000	Na	Fort Worth, Texas	-7:00 am-midnight
WFAA	ak 50000	Na	Dallas, Texas	-9:00 am-12:30 am
WTBO	ak 250	D	Cumberland, Md.	-8:30 am-ss

### 810 keys. (370.2)

CMCF	ak 600	X	Havana, Cuba	
WCCO	ak 50000	C	Minneapolis, Minn.	-7:30 am-1:00 am
WNYC	ak 1000	D	New York, N. Y.	-7:00 am-7:00 pm
XEDF	z 75	....	Nuevo Laredo, Tams.	-11:00 am-8:15 pm
XEXC	z 350	....	Aguascalientes, Ags.	

### 820 keys. (365.6)

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

### 830 keys. (361.2)

CMJX	ak 500	....	Camaguey, Cuba	-9:00 am-11:30 pm
KOA	ak 50000	R	Denver, Colo.	-9:00 am-2:00 am
WEEU	ak 1000	D	Reading, Pa.	-8:00 am-5:00 pm
WHDH	ak 1000	Dn	Boston, Mass.	
WRUF	ak 5000	Dn	Gainesville, Fla.	-7:00 am-6:30 pm

### 840 keys. (356.9)

CBL	z 50000	P	Toronto, Ont.	
CFQC	ak 1000	F	Saskatoon, Sask.	
CRCT	ak 5000	FN	Toronto, Ont.	
VOGY	ak 400	....	St. John's, Nfld.	
XERA	ck 350000	....	Villa Acuna, Coah.	

### 850 keys. (352.7)

CMCM	z	....	Havana, Cuba	-8:00 am-midnight
KIEV	ak 250	D	Glendale, Calif.	
WESG	ak 1000	CD	Elmira, N. Y.	-7:30 am-6:00 pm

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WKAR	ak 1000	D	E. Lansing, Mich.	-7:00 am-5:00 pm
WWL	ak 10000	C	New Orleans, La.	-7:30 am-1:00 am

### 860 kcys. (348.6)

WABC	ak 50000	C (WBOQ)	New York, N. Y.	-7:30 am-1:00 am
WHB	ak 1000	DM	Kansas City, Mo.	
XEMO	ak 5000	....	Tijuana, B. Cfa.	-9:45 am-3:00 am
XENC	z 50	....	Mexico City, D. F.	

### 870 kcys. (344.6)

WENR	ak 50000	Ba	Chicago, Ill.	-Noon-midnight
WLS	ak 50000	Ba	Chicago, Ill.	-8:00 am-3:00 pm
XEFB	ak 200	....	Monterrey, N. L.	
XEJW	z ....	....	Mexico City, D. F.	

### 880 kcys. (340.7)

CBO	ak 1000	F	Ottawa, Ont.	-10:30 am-midnight
CFJC	ak 100	F	Kamloops, B. C.	-12:30 pm-1:15 am
CMQ	ak 25000	....	Havana, Cuba	
KFKA	ak 500	2M (1)	Greeley, Colo.	-7:30 am-1:00 am
KLX	ak 1000	....	Oakland, Calif.	-10:30 am-2:30 am
KPOF	ak 500	2	Denver, Colo.	
WCOC	ak 500	CX (1)	Meridian, Miss.	
WGBI	ak 500	CI (1)	Scranton, Pa.	-12:30 pm-10:30 pm
WQAN	ak 500	1 (1)	Scranton, Pa.	-12:30 pm-10:00 pm
WRNL	ak 500	D	Richmond, Va.	-7:30 am-ss
WSUI	ak 500	(1)	Iowa City, Iowa	-10:00 am-11:00 pm

### 890 kcys. (336.9)

KARK	ak 500	N (1)	Little Rock, Ark.	-7:00 am-1:00 am
KFNF	ak 500	2 (1)	Shenandoah, Iowa	-7:00 am-1:00 am
KFPY	ak 1000	C (5)	Spokane, Wash.	-9:50 am-3:00 am
KUSD	ak 500	2	Vermillion, S. Dak.	
WBAA	ak 500	(1)	W. Lafayette, Ind.	-Noon-6:00 pm
WGST	ak 1000	C (5)	Atlanta, Ga.	
WJAR	ak 1000	R (5)	Providence, R. I.	-7:30 am-1:00 am
WMMN	ak 500	C (1)	Fairmont, W. Va.	-7:00 am-1:00 am
XEW	ak 50000	....	Mexico City, D. F.	

### 900 kcys. (333.1)

KGBU	ak 500	X	Ketchikan, Alaska	
KHJ	ak 1000	M (5)	Los Angeles, Calif.	
KSEI	ak 250	(1)	Pocatello, Idaho	-9:30 am-1:00 am
WBEN	ak 1000	R (5)	Buffalo, N. Y.	-7:00 am-1:00 am
WELI	ak 500	D	New Haven, Conn.	-6:00 am-ss
WFMD	ak 500	D	Frederick, Md.	-6:30 am-ss
WJAX	ak 1000	N (5)	Jacksonville, Fla.	-6:45 am-1:00 am
WKY	ak 1000	N (5)	Oklahoma City, Ok.	-7:45 am-1:00 am
WLBL	ak 5000	D	Stevens Point, Wis.	-9:00 am-2:00 pm
WTAD	ak 1000	D	Quincy, Ill.	-8:00 am-5:45 pm

### 910 kcys. (329.6)

CBF	z 50000	NP	Montreal, P. O.	
CJAT	ak 1000	F	Trail, B. C.	-10:00 am-2:00 am
XENT	ak 150000	....	Nuevo Laredo, Tams.	

### 920 kcys. (325.9)

CMX	ak 1000	....	Havana, Cuba	-8:00 am-1:00 am
KFEL	ak 500	Ma	Denver, Colo.	-8:00 am-2:30 am
KOMO	ak 1000	R (5)	Seattle, Wash.	
KPRC	ak 1000	R (5)	Houston, Texas	
KVOD	ak 500	Ba	Denver, Colo.	
WAAF	ak 1000	D	Chicago, Ill.	-6:00 am-ss
WORL	ak 500	D	Boston, Mass.	
WPEN	ak 1000		Philadelphia, Pa.	

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

WSPA	ak	1000	D	Spartanburg, S. C.	—6:00 am—12:30 am
WWJ	ak	5000	R	Detroit, Mich.	

**930 keys. (322.4)**

CFAC	ak	1000	F	Calgary, Alta.	—9:00 am—2:00 am
CFCH	ak	100	F	North Bay, Ont.	
CFLC	ak	100	....	Prescott, Ont.	—7:00 am—10:00 pm
CHNS	ak	1000	F	Halifax, N. S.	—7:30 am—11:00 pm
CKPC	ak	100	F	Brantford, Ont.	
KMA	ak	1000	(5)	Shenandoah, Iowa	
KROW	ak	1000	....	Oakland, Calif.	—9:00 am—5:00 am
WBRC	ak	1000	C	Birmingham, Ala.	—8:00 am—12:30 am
WDBJ	ak	1000	C (5)	Roanoke, Va.	—7:00 am—midnight
XEBH	ak	500	....	Hermosillo, Son.	—1:00 pm—midnight
XEFO	ak	5000	....	Mexico City, D. F.	

**940 keys. (319.0)**

KOIN	ak	1000	C (5)	Portland, Ore.	
VOAS	ak	100	....	St. John's, Nfld.	
WAAT	ak	500	D	Jersey City, N. J.	—6:30 am—6:00 pm
WAVE	ak	1000	N	Louisville, Ky.	—8:00—1:00 am
WCBS	ak	1000	R (2,5)	Portland, Maine	—8:00 am—midnight
WDAY	ak	1000	N (5)	Fargo, N. Dak.	—7:00 am—1:00 am
WHA	ak	5000	D	Madison, Wis.	—9:00 am—5:30 pm
WICA	z	250	DP	Ashtabula, Ohio	
XEYO	z	500	....	Mexico City, D. F.	

**950 keys. (315.6)**

CJOC	ak	100	F	Lethbridge, Alta.	—9:00 am—1:00 am
GMCD	ak	250	....	Havana, Cuba	—Noon—1:00 am
CRCK	ak	1000	F	Quebec, P. Q.	
KFWB	ak	1000	(5)	Hollywood, Calif.	
KMBC	ak	1000	C (5)	Kansas City, Mo.	—6:55 am—1:00 am
WHAL	z	500	DP	Saginaw, Mich.	
WRC	ak	500	RX (1)	Washington, D. C.	

**960 keys. (312.3)**

CFRN	ak	100	F	Edmonton, Alta.	—9:30 am—2:00 am
CHNC	ak	1000	F	New Carlisle, P. Q.	—7:30 am—11:00 pm
CRCY	ck	100	F	Toronto, Ont.	
XEAW	c	50000	....	Reynosa, Tams.	

**970 keys. (309.1)**

CMBY	z	150	....	Havana, Cuba	—8:55 am—11:00 pm
KJR	ak	5000	B	Seattle, Wash.	
WCFL	ak	5000	N	Chicago, Ill.	
WIBG	ak	100	D	Glenside, Pa.	

**980 keys. (306.0)**

KDKA	ak	50000	B	Pittsburgh, Pa.	
XEAC	ak	1000	....	Tijuana, B. Cfa.	
XEFE	z	150	....	Nuevo Laredo, Tams.	

**990 keys. (302.8)**

WBZ	ak	50000	BSy	Boston, Mass.	—6:30 am—1:00 am
WBZA	ak	1000	BSy	Springfield, Mass.	—6:30 am—1:00 am
XEAF	ak	750	....	Nogales, Son.	
XEK	ak	100	....	Mexico City, D. F.	
XES	ak	250	....	Tampico, Tams.	

**1000 keys. (299.8)**

CMBZ	ak	500	(1)	Havana, Cuba	—7:45 am—midnight
KFVD	ak	1000	Dn	Los Angeles, Calif.	—9:00 am—8:15 pm
VOCM	z	200	1006	St. John's, Nfld.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHO	ak 50000	R	Des Moines, Iowa	-7:00 am-1:00 am
XEBI	ak 25	....	Aguascalientes, Ags.	
XEBK	ak 60	....	Nuevo Laredo, Tams.	-10:00 am-8:30 pm
XEXS	z 100	....	Portable in Mexico	

1010 kcys. (296.9)

CHML	ak 100	F	Hamilton, Ont.	-8:00 am-midnight
CKCD	ak 100	I	Vancouver, B. C.	
CKCK	ak 1000	F	Regina, Sask.	-9:30 am-2:00 am
CKCO	ak 100	F	Ottawa, Ont.	-Noon-11:30 pm
CKIK	ak 50	....	Wolfville, N. S.	
CKWX	ak 100	F1	Vancouver, B. C.	-Noon-4:00 am
CMJA	ak 300	....	Camaguey, Cuba	
KGGF	ak 1000	2M	Coffeyville, Kans.	
KQW	ak 1000	M	San Jose, Calif.	-9:30 am-3:00 am
WHN	ak 1000	(5)	New York, N. Y.	
WNAD	ak 1000	2	Norman, Okla.	-3:00 pm-10:15 pm
WNOX	ak 1000	C (5)	Knoxville, Tenn.	-6:30 am-2:00 am
XEU	ak 250	...	Veracruz, Ver.	-8:00 am-1:00 am

1020 kcys. (293.9)

KYW	ak 10000	R	Philadelphia, Pa.	-7:05 am-10:00 pm
WDZ	ak 250	D	Tuscola, Ill.	-7:00 am-6:00 pm
XEJ	ak 1000	....	Juarez, Chih.	

1030 kcys. (291.1)

CFCN	ak 10000	....	Calgary, Alta.	-6:45 am-1:30 am
CJBR	z 1000	F	Rimouski, P. Q.	
CKLW	ak 5000	M	Windsor, Ont.	-6:45 am-1:30 am
CMCK	z ....	....	Havana, Cuba	
CMCX	z 150	....	Havana, Cuba	-9:00 am-11:00 pm
XEB	ak 10000	....	Mexico City, D. F.	-10:00 am-12:15 am

1040 kcys. (288.3)

KRLD	ak 10000	C	Dallas, Texas	-7:00 am-1:00 am
KWJJ	ak 500	....	Portland, Ore.	
KYOS	z 250	D	Merced, Calif.	
WTIC	ah 50000	R	Hartford, Conn.	

1050 kcys. (285.5)

CBM	ak 5000	F	Montreal, P. O.	
CKMD	ak 250	....	Santiago, Cuba	
KFBI	ak 5000	Dn	Abilene, Kans.	-7:00 am-7:45 pm
KNX	ak 50000	C	Los Angeles, Calif.	-9:30 am-3:15 am
WEAU	z 1000	D	Eau Claire, Wis.	
WGVA	z 1000	DP	Indianapolis, Ind.	

1060 kcys. (282.8)

KTHS	ak 10000	N	Hot Springs, Ark.	-9:00 am-ss
VOAC	z 40	1065	St. John's, Nfld.	
WBAL	ak 10000	BM	Baltimore, Md.	-7:00 am-9:00 pm
WJAG	ak 1000	D	Norfolk, Nebr.	-7:30 am-ss
W3XJ	z 100	P	College Park, Md.	-Midnight to 6:00 am
XEAD	ak 125	....	Guadalajara, Jal.	
XEMG	z 100	....	Atzacapotzalco, D. F.	

1070 kcys. (280.2)

CMBX	ak 500	....	Havana, Cuba	
CMHA	z 50	....	Sagua la Grande, Cuba	
KJBS	ak 500	....	San Francisco, Calif.	-1:00 am-8:30 pm
WCAZ	ak 100	D	Carthage, Ill.	
WTAM	ak 50000	R	Cleveland, Ohio	-6:00 am-midnight

1080 kcys. (277.6)

WBT	ak 50000	C	Charlotte, N. C.	-6:45 am-midnight
WCBD	ak 5000	Dnl	Chicago, Ill.	
WBBI	ak 5000	Dnl	Chicago, Ill.	
XEBA	z 20	....	Guzman, Jal.	
XEDP	ak 500	....	Mexico City, D. F.	

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

**1090 kcys. (275.1)**

**KMOX** ak 50000 C St. Louis, Mo. —7:00 am—1:00 am

**1100 kcys. (272.6)**

**CBR** ak 5000 F Vancouver, B. C.  
**CMCJ** ak 500 ..... Havana, Cuba.  
**KGDM** ak 1000 DM Stockton, Calif. —9:00 am—ss  
**KWKH** c 10000 C Shreveport, La. —7:30 am—1:00 am  
**WBIL** ak 5000 1 New York, N. Y.  
**WPG** ak 5000 C1 Atlantic City, N. J.  
**XECL** z 1700 ..... Mexicali, B. Cfa.

**1110 kcys. (270.1)**

**KSOO** ak 2500 DnN Sioux Falls, S. Dak. —7:00 am—6:45 pm  
**WRVA** ak 5000 CM Richmond, Va. —7:00 am—midnight

**1120 kcys. (267.7)**

**CHLP** ak 100 F Montreal, P. Q. —9:00 am—11:00 pm  
**CHSJ** ak 500 F (1) St. John, N. B. —5:00 am—midnight  
**CKOC** ak 500 F (1) Hamilton, Ont.  
**CKX** ak 1000 F Brandon, Man.  
**CMGF** ak 250 ..... Matanzas, Cuba.  
**CMKM** ak 200 ..... Manzanillo, Cuba —8:00 am—10:00 pm  
**CRCS** ak 100 F Chicoutimi, P. Q.  
**KFIO** ak 100 D Spokane, Wash.  
**KFSG** ak 500 a (2.5) Los Angeles, Calif.  
**KRKD** ak 500 a (2.5) Los Angeles, Calif. —9:00 am—3:00 am  
**KRSC** ak 250 ..... Seattle, Wash.  
**KTBC** z 1000 DP Austin, Texas —8:00 am—4:00 pm  
**WCOP** ak 500 D Boston, Mass. —9:00 am—11:00 pm  
**WDEL** ak 250 R (.5) Wilmington, Del. —8:00 am—1:00 am  
**WISN** ak 250 C (1) Milwaukee, Wis.  
**WJBO** ak 500 B Baton Rouge, La.  
**WTAW** ak 500 ..... College Sta., Tex.

**1130 kcys. (265.3)**

**CMJI** ak 150 ..... Ciego de Avila, Cuba —Noon—10:00 pm  
**KSL** ak 50000 C Salt Lake City, Ut. —8:30 am—3:00 am  
**WJJD** ak 20000 Dn Chicago, Ill. —6:00 am—6:45 pm  
**WOV** ak 1000 D New York, N. Y.  
**XEJP** z 100 ..... Mexico City, D. F.

**1140 kcys. (263.0)**

**CMBG** z 200 ..... Havana, Cuba —10:00 am—10:00 pm  
**KVOO** ak 25000 N1 Tulsa, Okla.  
**WAPI** ak 5000 R1 Birmingham, Ala.  
**WSPR** ak 500 DM Springfield, Mass. —7:00 am—5:45 pm

**1150 kcys. (260.7)**

**CMJF** z 200 ..... Camaguey, Cuba  
**WHAM** ak 50000 B Rochester, N. Y. —7:00 am—midnight  
**XEC** ak 100 ..... Tijuana, B. Cfa.  
**XEDW** z 20 ..... Minatitlan, Ver.

**1160 kcys. (258.5)**

**CMHJ** ak 175 ..... Cienfuegos, Cuba  
**CMKG** z ..... Santiago, Cuba  
**WOWO** ak 10000 B1 Fort Wayne, Ind.  
**WVVA** ak 5000 C1 Wheeling, W. Va.  
**XEAS** ak 50 ..... Saltillo, Coah.  
**XEBJ** z 20 ..... Merida, Yuc.  
**XEBZ** ad 100 ..... Mexico City, D. F.  
**XED** ak 2500 ..... Guadalajara, Jal. —Noon—midnight  
**XEP** ak 500 ..... Juarez, Chih. —9:00 am—2:00 am



NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1170 kcys. (256.3)

CMBD ak 500 .... Havana, Cuba -7:00 pm—midnight  
 WCAU ak 50000 C Philadelphia, Pa. -7:30 am—1:00 am

1180 kcys. (254.1)

CMJO ak 50 .... Ciego de Avila, Cuba  
 KEX ak 5000 B2 Portland, Ore.  
 KOB ak 10000 N2 Albuquerque, N. M. -1:00 pm—11:00 pm  
 WDGY ak 1000 CDn(5) Minneapolis, Minn.  
 WINS ak 1000 .... New York, N. Y.  
 WMAZ ak 1000 C Macon, Ga. -7:00 pm—7:00 pm  
 XEFA z 500 .... Tacuba, D. F.

1190 kcys. (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. -7:30 am—12:30 am  
 WSAZ ak 1000 .... Huntington, W. Va. -7:00 am—7:00 pm

1200 kcys. (249.9)

CFGP z 100 .... Grande Prairie, Alta.  
 CHAB ak 100 F Moose Jaw, Sask. -9:00 am—12:30 am  
 CKNX dk 100 .... Wingham, Ont. -11:00 am—1:00 am  
 CKTB ak 100 F St. Catharines, Ont. -9:30 am—11:30 pm  
 CMCO ad 250 .... Havana, Cuba  
 KADA ak 100 DM Ada, Okla.  
 KBTM ak 100 D Jonesboro, Ark.  
 KDNC ak 100 (.25) P Lewistown, Mont.  
 KELO z 100 N Sioux Falls, S. Dak.  
 KFJB ak 100 (.25) Marshalltown, Ia. -7:00 am—10:00 pm  
 KFXD ak 100 (.25) Nampa, Idaho -8:00 am—10:00 pm  
 KFXJ ak 100 (.25) Grand Junc., Colo.  
 KGCJ z 100 DP Coeur d'Alene, Idaho  
 KGCI c 100 (.25) Fergus Falls, Minn. -8:00 am—10:00 pm  
 KGEK ak 100 .... Sterling, Colo.  
 KGFJ ak 100 .... Los Angeles, Calif. -24 hours daily  
 KGHI ak 100 (.25) Little Rock, Ark. -8:30 am—11:00 pm  
 KGVL z 100 DP Greenville, Texas  
 KMLB ak 100 (.25) Monroe, La. -10:00 am—7:45 pm  
 KOOS ak 100 (.25) Marshfield, Ore. -11:00 am—midnight  
 KSUN c 100 (.25) Lowell, Ariz.  
 KVCV z 100 .... Redding, Calif.  
 KVBC z 250 D San Luis Obispo, Calif.  
 KVOS dk 100 M Bellingham, Wash.  
 KWC ak 100 N Stockton, Calif. -10:00 am—3:00 am  
 KWNO z 250 DP Winona, Minn.  
 KWBI ak 100 (.25) Bangor, Maine  
 WAIM ak 100 C Anderson, S. C. -6:00 am—10:00 pm  
 WAYX ak 100 (.25) Waycross, Ga.  
 WBBZ ak 100 M (.25) Ponca City, Okla. -8:00 am—10:00 pm  
 WBHP ak 100 .... Huntsville, Ala.  
 WBNO ak 100 .... New Orleans, La. -1:00 pm to midnight  
 WCAT ak 100 D Rapid City, S. Dak. -Noon—2:00 pm  
 WCAX ak 100 (.25) Burlington, Vt.  
 WCLO ak 100 (.25) Janesville, Wis.  
 WCPO ak 100 (.25) Cincinnati, Ohio -7:00 am—11:30 pm  
 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. -7:00 am—1:00 am  
 WIL ak 100 (.25) St. Louis, Mo.  
 WJBC ak 100 5 (.25) Bloomington, Ill. -4:00 pm—8:30 pm  
 WJBL ak 100 5 Decatur, Ill.  
 WJBW ak 100 2 New Orleans, La. -2:00 am—9:00 pm  
 WJNO ak 100 C (.25) W. Palm Beach, Fla. -7:00 am—11:00 pm  
 WJRD ak 250 D Tuscaloosa, Ala.  
 WKBO ak 100 3 (.25) Harrisburg, Pa. -8:00 am—11:00 pm  
 WLVA ak 100 (.25) Lynchburg, Va. -7:00 am—11:00 pm  
 WMFR ak 100 D High Point, N. C.  
 WMPC ak 100 (.25) Lapeer, Mich.

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOLS	z	100	DP	Florence, S. C.	
WRBL	ak	100	(.25)	Columbus, Ga.	—8:00 am—10:30 pm
WSAL	z	250	DP	Salisbury, Md.	
WTHT	ak	100	M	Hartford, Conn.	—7:00 am—4:15 pm
WTOL	z	100	DP	Toledo, Ohio	
WWAE	ak	100	8	Hammond, Ind.	

### 1210 kcys. (247.8)

CHLT	z	100	....	Sherbrooke, P. Q.	
CJCS	ak	50	....	Stratford, Ont.	—8:00 am—9:00 pm
CJCU	z	50	....	Aklavik, N.W.T.	
CKBI	ak	100	F	Prince Albert, Sask.	—9:45 am—1:00 am
CKCH	ak	100	F	Hull, P. Q.	—8:00 am—11:00 pm
CKMC	ak	56	....	Cobalt, Ont.	
CMHI	ak	150	....	Santa Clara, Cuba	
KALB	ak	100	....	Alexandria, La.	
KANS	ak	100	N	Wichita, Kans.	—7:30 am—midnight
KASA	c	100	M	Elk City, Okla.	—7:00 am—8:00 pm
KDLR	ak	100	....	Devils Lake, N. D.	—7:30 am—9:30 pm
KDON	z	100	M	Monterrey, Calif.	
KEJI	ak	100	....	Klamath Falls, Ore.	
KFOR	ak	100	CM(.25)	Lincoln, Nebr.	—8:00 am—11:15 pm
KFPW	ak	100	....	Fort Smith, Ark.	
KFVS	ak	100	5 (.25)	Cape Girardeau, Mo.	
KFXM	ak	100	M2	San Bernardino, Cal.	—9:00 am—3:00 am
KGLO	z	100	C (.25)	Mason City, Iowa	
KGY	ak	100	M	Olympia, Wash.	
KHBG	z	100	D	Okmulgee, Okla.	
KTUL	ak	100	....	Garden City, Kans.	—8:00 am—10:00 pm
KLAH	ak	100	....	Carlsbad, N. Mex.	
KOCA	z	100	(.25)	Kilgore, Texas	
KPFA	z	100	(.25)	Helena, Mont.	
KPPC	ak	100	2	Pasadena, Calif.	—10:00 am—12:30 am
KVSO	ak	100	D	Sacramento, Calif.	
KWTN	ak	100	M	Ardmore, Okla.	—8:00 am—11:00 pm
WALR	ak	100	....	Watertown, S. Dak.	
WBAX	ak	100	....	Zanesville, Ohio	—7:00 am—9:00 pm
WBBL	ak	100	....	Wilkes-Barre, Pa.	
WBLV	ak	100	D	Richmond, Va.	
WBRB	ak	100	3	Lima, Ohio	—6:00 am—5:15 pm
WCOL	ak	100	N	Red Bank, N. J.	
WCRW	ak	100	4	Columbus, Ohio	—7:00 am—11:00 pm
WBO	ak	100	5 (.25)	Chicago, Ill.	—11:00 am—7:00 pm
WEDC	ak	100	4	Harrisburg, Ill.	
WFAS	ak	100	3	Chicago, Ill.	
WFOY	ak	100	(.25)	White Plains, N. Y.	
WGBB	ak	100	3	St. Augustine, Fla.	
WGCM	ak	100	(.25)	Freeport, N. Y.	
WGNV	ak	100	3	Gulfport, Miss.	
WGRM	ak	100	P	Newburgh, N. Y.	—7:30 am—midnight
WHBF	ak	100	(.25)	Grenada, Miss.	
WHBU	ak	100	(.25)	Rock Island, Ill.	—7:00 am—1:05 am
WIBU	ak	100	(.25)	Anderson, Ind.	
WJBY	ak	100	(.25)	Poynette, Wis.	
WJBJ	ak	50	Dn(.1)	Gadsden, Ala.	—8:00 am—10:30 pm
WJIM	z	100	(.25)	Hagerstown, Md.	—7:15 am—12:30 am
WJTN	ak	100	B (.25)	Lansing, Mich.	
WJW	ak	100	(.25)	Jamestown, N. Y.	—8:00 am—10:30 pm
WKOK	ak	100	....	Akron, Ohio	—6:00 am—midnight
WLMU	z	100	P (.25)	Sunbury, Pa.	
WMFG	ak	100	(.25)	Middlesboro, Ky.	
WOMT	ak	100	....	Hibbing, Minn.	—7:30 am—10:00 pm
WPAX	ak	100	D	Manitowoc, Wis.	
WSAY	z	100	D	Thomasville, Ga.	—8:00 am—6:00 pm
WSBC	ak	100	4 (.25)	Rochester, N. Y.	
WSIX	ak	100	....	Chicago, Ill.	—6:00 am—midnight
WSNJ	z	100	D	Nashville, Tenn.	—7:00 am—1:00 am
WSOC	ak	100	N (.25)	Bridgeton, N. J.	
WTAX	ak	100	....	Charlotte, N. C.	—7:00 am—midnight
XEAT	ak	250	....	Springfield, Ill.	
XEE	ak	50	....	Parral, Chih.	—11:00 am—9:00 pm
XEFV	ak	100	....	Durango, Dgo.	
XETH	ak	100	....	Juarez, Chih.	
.....	z	250	DP	Puebla, Pue.	
				Greenfield, Mass.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1220 kcys. (245.8)

CMJE	z	50	....	Camaguey, Cuba	
KFKU	ak	1000	a (5)	Lawrence, Kans.	-3:30 pm-7:30 pm
KTMS	z	500	B	Santa Barbara, Cal.	
KTW	ak	1000	S2	Seattle, Wash.	
KWSC	ak	1000	2 (5)	Pullman, Wash.	-9:45 am-12:30 am
WCAD	ak	500	D	Canton, N. Y.	-12:30 pm-4:00 pm
WCAE	ak	1000	MR (5)	Pittsburgh, Pa.	-7:00 am-2:30 am
WDAE	ak	1000	C (5)	Tampa, Fla.	-7:30 am-?
WREN	ak	1000	Ba(5)	Lawrence, Kans.	-8:00 am-7:00 pm
XEBL	z	50	....	Mazatlan, Sin.	
XEDA	z	200	....	Gra. Anaya, D. F.	
XEG	z	250	....	Monterrey, N. L.	
XETF	ak	30	....	Veracruz, Ver.	-11:00 am-1:00 am

1230 kcys. (243.8)

KGBX	ak	500	N ..	Springfield, Mo.	
KGGM	ak	1000	....	Albuquerque, N. M.	-9:30 am-11:30 pm
KYA	ak	1000	(5)	San Francisco, Cal.	
WFPM	ak	1000	C (5)	Indianapolis, Ind.	-7:30 am-1:00 am
WNAC	ak	1000	R (5)	Boston, Mass.	-6:30 am-1:00 am
XEFJ	ak	100	....	Monterrey, N. L.	-11:00 am-8:00 pm

1240 kcys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.	-7:00 am-11:00 pm
CMHB	z	50	....	Sancti Spiritus, Cuba	
KGCU	ak	250	1	Mandan, N. Dak.	
KLPM	ak	250	1XZ	Minot, N. Dak.	
KTAT	ak	1000	M	Fort Worth, Texas	
KTFI	ak	1000	....	Twin Falls, Idaho	
WKAO	ak	1000	....	San Juan, P. R.	-6:00 am-9:30 pm
WXYZ	ak	1000	B	Detroit, Mich.	
XEAP	z	50	....	Obregon, Son.	
XEAY	z	100	....	Mexico City, D. F.	
XEBS	z	200	....	Mexico City, D. F.	
XEKL	z	500	....	Leon, Guan.	
XELA	z	50	....	Saltillo, Coah.	

1250 kcys. (239.9)

CMCK	ak	150	....	Santiago, Cuba	
KFOX	ak	1000	....	Long Beach, Calif.	
WAIR	ak	250	D	Winst.-Salem, N. C.	-6:00 am-ss
WCAL	ah	1000	2 XZ	Northfield, Minn.	
WDSU	ak	1000	B	New Orleans, La.	-7:00 am-midnight
WHBI	ak	1000	a (2,5)	Newark, N. J.	
WLB	ak	1000	2XZ	Minneapolis, Minn.	
WNEW	ak	1000	a (2,5)	New York, N. Y.	
WTCN	ak	1000	B (5)	Minneapolis, Minn.	-7:00 am-midnight
XEXH	z	250	....	San Luis Pot., S.L.P.	

1260 kcys. (238.0)

CMC	z	150	....	Havana, Cuba	-8:00 am-midnight
KGVO	ak	1000	C	Missoula, Mont.	-9:00 am-1:00 am
KHSL	ak	250	....	Chico, Calif.	
KOIL	ak	1000	BM(5)	Omaha, Nebr.	
KPAC	ak	500	D	Port Arthur, Texas	-6:00 am-5:45 pm
KRGV	ak	1000	N	Weslaco, Texas	-8:00 am-11:00 pm
KUOA	ak	5000	D	Siloam Spgs., Ark.	
KVOA	ak	1000	....	Tucson, Ariz.	
WHIO	ak	1000	C (5)	Dayton, Ohio	-6:00 am-1:00 am
WNBX	ak	500	CM(1)	Springfield, Vt.	
WTOC	ak	1000	C	Savannah, Ga.	-7:00 am-midnight

1270 kcys. (236.1)

CMHD	dk	250	....	Caibarien, Cuba	
KGCA	ak	100	2D	Decorah, Iowa	-9:30 am-3:30 pm
KOL	ak	1000	M (5)	Seattle, Wash.	
KVOR	ak	1000	C	Colo. Springs, Colo.	-9:00 am-1:00 am
KWLC	ak	100	2D	Decorah, Iowa	
WASH	ak	500	DaN	Grd. Rpds., Mich.	-7:00 am-midnight
WFBR	ak	500	R (1)	Baltimore, Md.	-7:00 am-midnight

**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

WJDX	ak	1000	R (5)	Jackson, Miss.	
WOOD	ak	500	Na	Gd. Rapids, Mich.	-7:00 am—midnight
XEXB	ak	50	....	Jalapa, Ver.	
XEXE	z	17	....	Mexico City, D. F.	

**1280 keys. (234.2)**

CMCU	ak	500	....	Havana, Cuba	-6:55 am—1:00 am
CMKO	z	1000	....	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.	-7:30 am—12:30 am
WBA	ak	1000	N (5)	Madison, Wis.	
WORC	ak	500	C	Worcester, Mass.	-8:00 am—midnight
WRR	ak	500	M	Dallas, Texas	-8:00 am—midnight
WTNJ	ak	500	1	Trenton, N. J.	
XEMX	z	100	....	Mexico City, D. F.	

**1290 keys. (232.4)**

KDYL	ak	1000	RX	Salt Lake City, Ut.	-8:00 am—3:00 am
KLCN	ak	100	D	Blytheville, Ark.	
KTRH	ak	1000	C (5)	Houston, Texas	
WEBC	ak	1000	N (5)	Duluth, Minn.	-8:00 am—1:00 am
WJAS	ak	1000	C (5)	Pittsburgh, Pa.	-7:30 am—12:30 am
WNBZ	ak	100	D	Saranac Lake, N. Y.	-9:30 am—ss
WNEL	ak	1000	(2.5)	San Juan, P. R.	-6:30 am—11:30 pm

**1300 keys. (230.6)**

KALE	ak	500	CM	Portland, Ore.	
KFAC	ak	1000	....	Los Angeles, Calif.	
KFH	ak	1000	C (5)	Wichita, Kans.	
WBBR	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.	
WHAZ	ak	1000	1	Troy, N. Y.	-6:00 pm—midnight
WHBL	ak	250	....	Sheboygan, Wis.	

**1310 keys. (228.9)**

CHCK	ak	50	....	Charlottetown, P.E.I.	
CJKL	ak	100	F	North Bay, Ont.	
CJLS	ak	100	....	Yarmouth, N. S.	
CKCV	ak	100	F	Quebec, P. Q.	-7:55 am—11:30 pm
KAND	z	100	D	Corsicana, Tex.	
KARM	z	100	P	Fresno, Calif.	
KCKN	ak	100	....	Kansas City, Kans.	
KCRJ	ak	100	(.25)	Jerome, Ariz.	
KFPL	dk	100	(.25)	Dublin, Texas	-7:00 am—10:45 pm
KFXR	ak	100	(.25)	Okla. City, Okla.	-8:00 am—midnight
KFYR	ak	100	(.25)	Lubbock, Texas	-8:00 am—10:15 pm
KGEZ	ak	100	....	Kalispell, Mont.	-9:00 am—11:00 pm
KGFW	ak	100	....	Kearney, Nebr.	-7:00 am—10:00 pm
KHUB	ak	250	D	Watsonville, Calif.	
KINY	ak	100	XZ	Juneau, Alaska	
KIT	ak	100	MXZ(.25)	Yakima, Wash.	
KPDN	ak	100	D	Pampa, Texas	
KRBA	z	100	DP	Lufkin, Texas	
KRMD	ak	100	(.25)	Shreveport, La.	
KROC	ak	100	(.25)	Rochester, Minn.	-7:00 am—12:15 am
KROA	ak	100	....	Santa Fe, N. Mex.	
KRRV	z	250	D	Sherman, Texas	
KSRO	ak	250	D	Santa Rosa, Calif.	-11:00 am—9:00 pm
KSUB	ak	100	....	Cedar City, Utah	
KTSM	ak	100	(.25)	El Paso, Texas	-8:30 am—1:00 am
KVOL	ak	100	....	Lafayette, La.	-8:00 am—10:30 pm
KVOX	z	100	....	Moorhead, Minn.	
KWOS	z	100	D	Jefferson City, Mo.	
KXRO	ak	100	M(.25)	Aberdeen, Wash.	-10:00 am—2:00 am
WAML	ak	100	(.25)	Laurel, Miss.	-8:00 am—8:00 pm
WBEO	ak	100	D	Marquette, Mich.	-10:30 am—5:30 pm

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WBOW	ak	100	N (.25)	Terre Haute, Ind.	-7:00 am—midnight
WBRE	ak	100		Wilkes-Barre, Pa.	
WBRK	z	100	P (.25)	Pittsfield, Mass.	
WCLS	ak	100		Joliet, Ill.	-8:00 am—9:30 pm
WCMI	ak	100	(.25)	Ashland, Ky.	-6:00 am—11:30 pm
WDAH	ak	100	S (.25)	El Paso, Texas	-11:30 am—10:30 pm (Sun. only)
WEBR	ak	100	B (.25)	Buffalo, N. Y.	-7:00 am—midnight
WEMP	ak	100	D	Milwaukee, Wis.	-7:30 am—ss
WEXL	ak	50	....	Royal Oak, Mich.	-8:00 am—4:00 am
WFBG	ak	100	3	Altoona, Pa.	-7:00 am—10:30 pm
WFDF	ak	100	....	Flint, Mich.	-7:00 am—midnight
WGH	ak	100	(.25)	Newport News, Va.	-7:00 am—midnight
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.	-7:00 am—midnight
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.	-7:30 am—11:15 pm
WOL	ak	100	MXZ	Washington, D. C.	
WRAW	ak	100	....	Reading, Pa.	-7:00 am—11:00 pm
WROL	ak	100	N (.25)	Knoxville, Tenn.	
WSAJ	ak	100	....	Grove City, Pa.	
WSGN	ak	100	B (.25)	Birmingham, Ala.	-8:00 am—midnight
WSJS	ak	100	C	Winston-Salem, N. C.	-8:00 am—10:00 pm
WTAL	ak	100	....	Tallahassee, Fla.	-8:00 am—midnight
WTEL	ak	100	4	Philadelphia, Pa.	-8:00 am—midnight
WTJS	ak	100	(.25)	Jackson, Tenn.	
WTRC	ak	100	(.25)	Elkhart, Ind.	-7:00 am—10:30 pm
XEAG	z	10	....	Cordoba, Ver.	
XEBO	z	25	....	Irapuato, Guan.	
XECW	ak	10	....	Mexico City, D. F.	
XEFW	ak	250	....	Tampico, Tams.	-11:00 am—10:00 pm
XETB	ak	125	....	Torreón, Coah.	
XEX	ak	125	....	Monterrey, N. L.	
.....	z	100	DP	Poplar Bluff, Mo.	

1320 kcys. (227.1)

CMOX	ak	200	....	Havana, Cuba	
KGHF	am	500	B	Pueblo, Colo.	-9:30 am—11:45 pm
KGMB	ak	1000	C M	Honolulu, Hawaii	-1:30 am—6:00 pm
KID	ak	500	(1)	Idaho Falls, Idaho	
KRNT	ak	1000	C (5)	Des Moines, Iowa	-6:30 am—1:00 am
WADC	ak	1000	C	Akron, Ohio	-7:00 am—1:00 am
WORK	ak	1000	N	York, Pa.	-8:00 am—10:00 pm
WSMB	ak	1000	R	New Orleans, La.	

1330 kcys. (225.4)

CMHK	z	250	....	Cruces, Cuba	
KGB	ak	1000	M	San Diego, Calif.	-10:00 am—4:00 am
KMO	ak	1000	M	Tacoma, Wash.	-9:00 am—3:00 am
KRIS	z	500	N	Corpus Christi, Tex.	
KSCJ	ak	1000	C (5)	Sioux City, Iowa	-7:00 am—1:00 am
WDRG	ak	1000	C (5)	Hartford, Conn.	-7:00 am—midnight
WSAI	ak	1000	MN (2.5)	Cincinnati, Ohio	-7:00 am—1:00 am
WTAQ	ak	1000	C	Green Bay, Wis.	

1340 kcys. (223.7)

CMAB	z	....	....	Pinar del Rio, Cuba	
CMJL	z	75	....	Camaguey, Cuba	
KDTH	z	500	DP	Dubuque, Iowa	
KGDY	ak	250	D	Huron, S. Dak.	-10:00 am—1:00 am
KGIR	ak	1000	N (2.5)	Butte, Mont.	
KGNO	ak	250	....	Dodge City, Kans.	-8:30 am—midnight
WCOA	ak	500	CX	Pensacola, Fla.	
WFEA	ak	500	MN (1)	Manchester, N. H.	-6:30 am—1:00 am
WSPD	ak	1000	B (5)	Toledo, Ohio	
XEXD	z	350	....	Jalapa, Ver.	

1350 kcys. (222.1)

CMCA	ak	450	....	Havana, Cuba	
CMKW	z	....	....	Santiago, Cuba	
KIDO	ak	1000	N (2.5)	Boise, Idaho	-10:00 am—midnight
KWK	ak	1000	BM (5)	St. Louis, Mo.	-6:30 am—1:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WAWZ ak 500 1 (1) Zarephath, N. J.  
 WBNX ak 1000 1 New York, N. Y.  
 WMBG ak 500 R Richmond, Va.

1360 kcys. (220.4)

CMJH dk 50 .... Ciego de Avila, Cuba  
 KCRC ak 250 M Enid, Okla. —8:00 am—11:00 pm  
 KGER ak 1000 .... Long Beach, Calif.  
 WCSC ak 500 N (1) Charleston, S. C. —7:00 am—midnight  
 WFBL ak 1000 C (5) Syracuse, N. Y. —7:00 am—1:00 am  
 WGES ak 500 1 (1) Chicago, Ill. —8:00 am—9:00 pm  
 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 —10:00 am—10:30 pm  
 KAST ak 100 D Astoria, Ore. —11:00 am—8:30 pm  
 KCMO ak 100 .... Kansas City, Mo. —7:00 am—2:00 am  
 KEEN ak 100 3 Seattle, Wash. —3:00 pm—1:00 am  
 KELD z 100 .... El Dorado, Ark.  
 KERN ak 100 N Bakersfield, Calif. —11:00 am—3:00 am  
 KFGQ ak 100 D Boone, Iowa —7:00 am—2:00 pm  
 KFJZ ak 100 (.25) Fort Worth, Texas —7:30 am—midnight  
 KFRO ak 250 D Longview, Texas —7:00 am—ss  
 KGAR ak 100 (.25) Tucson, Arizona  
 KGFL ak 100 4 Roswell, N. Mex.  
 KGKL ak 100 (.25) San Angelo, Texas.  
 KICA ak 100 4 Clovis, N. Mex. —9:00 am—11:00 pm  
 KIUP ak 100 .... Durango, Colo. —10:00 am—11:00 pm  
 KLUF ak 100 .... Galveston, Texas —9:00 am—midnight  
 KMAC ak 100 5 (.25) San Antonio, Tex. —8:00 am—9:00 pm  
 KOBH ak 100 .... Rapid City, S. Dak. —8:00 am—midnight  
 KOKO z 100 .... La Junta, Colo.  
 KONO ak 100 5 San Antonio, Tex. —7:00 am—11:00 pm  
 KRE ak 100 (.25) Berkeley, Calif. —24 hours daily  
 KRKO ak 50 3 Everett, Wash.  
 KRMC z 100 (.25) Jamestown, N. D.  
 KSLM ak 100 M Salem, Ore. —10:00 am—1:00 am  
 KTEM ak 250 D Temple, Texas  
 KTOK bk 100 M Oklahoma City, Ok.  
 KUJ ak 100 .... Walla Walla, Wash. —9:30 am—1:00 am  
 KVGB z 100 .... Great Bend, Kans.  
 KVR5 z 100 (.25)P Rock Springs, Wyo.  
 KWYO ak 100 (.25) Sheridan, Wyo. —9:00 am—midnight  
 WABY ak 100 B Albany, N. Y. —7:00 am—midnight  
 WAGF ak 250 D Dothan, Ala. —9:00 am—ss  
 WATL ak 100 (.25) Atlanta, Ga. —7:00 am—1:00 am  
 WBLK ak 100 .... Clarksburg, W. Va.  
 WBNY ak 100 2 (.25) Buffalo, N. Y. —7:30 am—midnight  
 WBTM ak 100 (.25) Danville, Va. —7:00 am—10:00 pm  
 WCBM ak 100 (.25) Baltimore, Md.  
 WDAS ak 100 (.25) Philadelphia, Pa. —8:00 am—midnight  
 WDWS ak 100 D Champaign, Ill.  
 WEOA z 100 C(.25) Evansville, Ind.  
 WFOR ak 100 .... Hattiesburg, Miss. —8:00 am—9:00 pm  
 WGL ak 100 N Fort Wayne, Ind.  
 WGRC ak 250 D New Albany, Ind.  
 WHBQ ak 100 .... Memphis, Tenn. —8:00 am—11:30 pm  
 WHDF ak 100 (.25) Calumet, Mich. —10:30 am—6:30 pm  
 WHLB ak 100 (.25) Virginia, Minn.  
 WIBM ak 100 (.25) Jackson, Mich. —6:30 am—12:30 am  
 WLLH ak 100 MSy(.25) Lowell, Mass. —7:30 am—midnight  
 WMBR ak 100 C(.25) Jacksonville, Fla. —7:30 am—midnight  
 WMFD ak 100 D Wilmington, N. C.  
 WMFO ak 100 D Decatur, Ala. —8:00 am—6:30 pm  
 WMIN ak 100 (.25) St. Paul, Minn. —7:00 am—1:00 am  
 WOC ak 100 C(.25) Davenport, Iowa —7:00 am—1:00 am  
 WPAY ak 100 .... Portsmouth, Ohio —7:00 am—10:15 pm  
 WPRA z 100 (.25) Mayaguez, P. R.  
 WRAK ak 100 (.25) Williamsport, Pa.  
 WRDO ak 100 M Augusta, Maine —8:00 am—11:15 pm  
 WRJN ak 100 (.25) Racine, Wis. —8:25 am—midnight  
 WSAU ak 100 Wausau, Wis. —7:00 am—11:15 pm  
 WSAU ak 50 2D Buffalo, N. Y.  
 XECZ z 100 .... San L. Pot., S.L.P.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XEI	ak	125	....	Morelia, Mich.
XELZ	z	100	....	Mexico City, D. F.
.....	z	10-100	SyP	Lawrence, Mass.
.....	z	100	....	Owen Sound, Ont.

1380 keys. (217.3)

KOH	ak	500	C	Reno, Nevada	-11:00 am-3:00 am
KOV	ak	500	CI	Pittsburgh, Pa.	-7:00 am-10:00 pm
WALA	ak	500	C (1)	Mobile, Ala.	-8:30 am-midnight
WKBB	ak	1000	C	La Crosse, Wis.	
WNBC	ak	250	D	New Britain, Conn.	-7:00 am-ss
WSMK	ak	200	C 1	Dayton, Ohio	

1390 keys. (215.7)

CJGX	ak	100	F	Yorkton, Sask.	-8:30 am-12:30 am
CMJC	z	150	....	Camaguey, Cuba	
KLRA	ak	1000	C (5)	Little Rock, Ark.	-9:00 am-12:15 am
KOY	ak	1000	C	Phoenix, Ariz.	
KRLC	ak	250	....	Lewiston, Idaho	
WHK	ak	1000	BM (2.5)	Cleveland, Ohio	-7:00 am-midnight
WQDM	dk	1000	D	St. Albans, Vt.	

1400 keys. (214.2)

CMGC	ad	150	....	Matanzas, Cuba	-8:00 am-11:00 pm
CKKR	z	100	....	Santiago, Cuba	
KHBC	ak	250	CM	Hilo, T. H.	
KLO	ak	500	B	Ogden, Utah	-10:00 am-1:00 am
KTUL	ak	500	C (1)	Tulsa, Okla.	
WARD	ak	500	2	Brooklyn, N. Y.	
WBBC	ak	500	2 (1)	Brooklyn, N. Y.	
WHDL	ak	250	D	Olean, N. Y.	
WIRE	ak	1000	MR (5)	Indianapolis, Ind.	-7:30 am-1:00 am
WLTH	ak	500	2	Brooklyn, N. Y.	
WVFW	ak	500	2	Brooklyn, N. Y.	

1410 keys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	
CKMO	ak	100	5	Vancouver, B. C.	
CMCO	ak	250	....	Havana, Cuba	
KFJM	ak	500	(1)	Grand Forks, N. D.	
KGNC	ak	1000	(2.5) N	Amarillo, Texas	
KMED	ck	250	N	Medford, Ore.	-24 hours daily
WAAB	ak	500	M (1)	Boston, Mass.	-9:00 am-12:30 am
WBBC	ak	500	(1)	Bay City, Mich.	
WHIS	ak	500	(1)	Bluefield, W. Va.	
WROK	ak	500	(1)	Rockford, Ill.	-7:30 am-midnight
WSFA	ak	500	C (1)	Montgomery, Ala.	-7:30 am-midnight

1420 keys. (211.1)

CHLN	z	100	....	Three Rivers, P. O.	
CKGB	ak	100	F	North Bay, Ont.	-11:00 am-11:30 pm
KABC	ak	100	(.25)	San Antonio, Texas	-7:00 am-12:15 am
KABR	ak	100	XZ	Aberdeen, S. D.	
KATE	z	250	D	Albert Lea, Minn.	
KBPS	ak	100	4	Portland, Ore.	-2:00 pm-8:00 pm
KCMC	ak	100	(.25)	Texarkana, Tex.	
KEUB	ak	100	....	Price, Utah	-9:30 am-midnight
KFAM	z	100	P	St. Cloud, Minn.	
KFIZ	ak	100	....	Fond du Lac, Wis.	
KGFF	ak	100	(.25) M	Shawnee, Okla.	-8:00 am-10:00 pm
KGCC	ak	100	....	San Francisco, Cal.	
KGW	ak	100	1	Alamosa, Colo.	-9:30 am-10:30 pm
KIDW	ak	100	1	Lamar, Colo.	-9:00 am-8:00 pm
KIUN	ak	100	....	Pecos, Texas	-8:00 am-10:00 pm
KLBM	z	100	(.25) P	La Grande, Ore.	
KNET	ak	100	D	Palestine, Texas	
KORE	ak	100	M	Eugene, Ore.	
KRBC	ak	100	(.25)	Abilene, Texas	-8:00 am-10:00 pm
KRLH	z	100	D	Midland, Texas	
KTRI	z	100	(.25) P	Sioux City, Iowa	
KUMA	ak	100	....	Yuma, Ariz.	

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWBG	ak	100	....	Hutchinson, Kans.	
KXL	ak	100	4 (.25)	Portland, Ore.	
WAGO	ak	100	C	Waco, Texas	
WAGM	ak	100	....	Presque Isle, Me.	-11:00 am-7:00 pm
WAPO	ak	100	(.25)	Chattanooga, Tenn.	-7:00 am-7:00 pm
WAZL	ak	100	2	Hazleton, Pa.	-9:00 am-10:00 pm
WCBS	ak	100	(.25)	Springfield, Ill.	-8:00 am-11:00 pm
WCHV	ak	100	3 (.25)	Charlottesville, Va.	-7:00 am-midnight
WEED	ak	100	3 (.25)	Rocky Mount, N. C.	
WELL	ak	100	....	Battle Creek, Mich.	-7:30 am-midnight
WGPC	ak	100	....	Albany, Ga.	
WHFC	ak	100	(.25)	Cicero, Ill.	-7:00 am-1:00 am
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.	-7:00 am-midnight
WMBC	ak	100	(.25)	Detroit, Mich.	-7:30 am-midnight
WMBH	ak	100	(.25)	Joplin, Mo.	
WMBS	ak	250	D	Uniontown, Pa.	-6:00 am-6:00 pm
WMFJ	ak	100	....	Daytona Bch., Fla.	
WMSD	ak	100	....	Sheffield, Ala.	-8:00 am-11:00 pm
WNNY	z	100	(.25) P	Watertown, N. Y.	
WPAD	ak	100	(.25)	Paducah, Ky.	-7:00 am-midnight
WPAR	ak	100	C	Parkersburg, W. V.	
WPRP	z	100	(.25)	Ponce, Puerto Rico	

### 1430 kcys. (209.7)

CMJP	ak	75	....	Moron, Cuba	
KECA	ak	1000	(5) B	Los Angeles, Cal.	-10:00 am-3:00 am
KGNF	ak	1000	D	North Platte, Neb.	-8:00 am-6:15 pm
KSO	ak	500	BM (2.5)	Des Moines, Iowa	
WBNS	ak	500	C (1) X	Columbus, Ohio	
WBEC	ak	500	C (1)	Rochester, N. Y.	-7:00 am-midnight
WHP	ak	500	C (1)	Harrisburg, Pa.	-6:30 am-midnight
WMPS	ak	500	(1) B	Memphis, Tenn.	
WOKO	ak	500	C (1)	Albany, N. Y.	-8:00 am-1:00 am

### 1440 kcys. (208.2)

CMOA	z	150	....	Havana, Cuba	
KDFN	ak	500	....	Casper, Wyo.	
KELA	z	500	MP	Centralia-Chehalis, Wn.	
KXYZ	ak	1000	B	Houston, Texas	
WBIG	ak	1000	C	Greensboro, N. C.	-6:30 am-11:30 pm
WCBA	aj	500	a	Allentown, Pa.	-7:30 am-11:30 pm
WMBD	ak	1000	C (5)	Peoria, Ill.	-7:00 am-midnight
WSAN	aj	500	Na	Allentown, Pa.	-1:00 pm-11:30 pm
XEFI	ak	250	....	Chihuahua, Chih.	

### 1450 kcys. (206.8)

CFCT	ak	50	....	Victoria, B. C.	-10:45 am-12:15 am
CHGS	ak	50	F	Summerside, P.E.I.	-6:30 am-10:00 pm
CMHM	z	100	....	Cienfuegos, Cuba	
KGCK	ak	1000	....	Wolf Point, Mont.	
KIEM	ak	500	M (1)	Eureka, Calif.	-10:00 am-1:00 am
KTBS	ak	1000	N	Shreveport, La.	-7:30 am-1:00 am
WAGA	ak	500	B (1)	Atlanta, Ga.	
WGAR	ak	500	C (1)	Cleveland, Ohio	-7:00 am-midnight
WHOM	ak	250	....	Jersey City, N. J.	-7:00 am-midnight
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.	-7:00 am-2:00 am
WJSV	ak	10000	C	Washington, D. C.	

### 1470 kcys. (204.0)

KGA	ak	5000	BM	Spokane, Wash.	
WLAC	ak	5000	C	Nashville, Tenn.	



**NORTH AMERICAN B. C. STATIONS BY FREQUENCIES**

**1480 kcys. (202.6)**

KOMA	ak	5000	C	Oklahoma City, Ok.	-7:30 am-1:00 am
WHIP	z	5000	DP	Hammond, Ind.	-7:30 am-5:30 pm
WKBW	ak	5000	C	Buffalo, N. Y.	-8:00 am-1:00 am

**1490 kcys. (201.2)**

KFBK	ak	5000	N X	Sacramento, Calif.	-7:00 am-midnight
WCKY	ak	10000	N	Covington, Ky.	

**1500 kcys. (199.9)**

CJIC	ak	100	....	S. S. Marie, Ont.	-10:00 am-10:00 pm
KAWM	z	100	....	Gallup, N. Mex.	
KBIX	ak	100	M	Muskogee, Okla.	-8:00 am-11:00 pm
KBST	z	100	....	Big Spring, Texas	
KDAL	ak	100	C	Duluth, Minn.	
KDB	ak	100	M(.25)	Santa Barbara, Cal.	
KGFI	ak	100	(.25)	Brownsville, Tex.	
KGKB	ak	100	(.25)	Tyler, Texas	
KGKY	ak	100	(.25)	Scottsbluff, Neb.	-8:30 am-11:00 pm
KNEL	ak	250	D	Brady, Texas	-8:00 am-6:00 pm
KNOW	ak	100	C	Austin, Texas	
KOTN	ak	100	D	Pine Bluff, Ark.	-8:00 am-ss
KOVC	ak	100	....	Valley City, N. D.	-8:00 am-10:00 pm
KPLC	ak	100	(.25)	Lake Charles, La.	
KPLT	z	250	D	Paris, Texas	
KPO	ak	100M(.25)		Wenatchee, Wash.	
KRNR	ak	100M(.25)		Roseburg, Ore.	
KROD	ak	100	P	El Paso, Texas	
KSAL	ak	100	(.25)	Salina, Kans.	
KUTA	z	100	P	Salt Lake City, Ut.	
KVOE	ak	100	M	Santa Ana, Calif.	-Noon to 2:00 am
KXO	ak	100	....	El Centro, Calif.	-11:00 am-midnight
WCNW	ak	100	i(.25)	Brooklyn, N. Y.	-9:00 am-midnight
WDNC	ak	100	C	Durham, N. C.	-7:30 am-12:30 am
WGAL	ak	100	(.25)	Lancaster, Pa.	
WHBB	ak	100	....	Selma, Ala.	-7:30 am-ss
WHEF	ak	100	(.25)	Kosciusko, Miss.	-7:30 am-10:00 pm
WJBK	ak	100	(.25)	Detroit, Mich.	-24 hours daily
WKAT	z	100	P	Miami Beach, Fla.	
WKBB	ak	100	(.25)	E. Dubuque, Ill.	
WKBV	ak	100	(.25)	Richmond, Ind.	
WKBZ	ak	100	(.25)	Muskegon, Mich.	-7:00 am-10:00 pm
WKEU	ak	100	D	Griffin, Ga.	
WMBQ	ak	100	i	Brooklyn, N. Y.	
WMEX	ak	100	(.25)	Boston, Mass.	
WNBf	ak	100	C(.25)	Binghamton, N. Y.	
WNLC	ak	100	DM	New London, Conn.	
WOMI	z	100	P	Owensboro, Ky.	
WOPI	ak	100	....	Bristol, Tenn.	-7:00 am-10:30 pm
WRDW	ak	100	C(.25)	Augusta, Ga.	-7:00 am-9:00 pm
WRGA	ak	100	(.25)	Rome, Ga.	-8:00 am-11:00 pm
WRTD	z	100	B	Richmond, Va.	
WSYB	ak	100	....	Rutland, Vt.	-10:00 am-9:00 pm
WTMV	ak	100	(.25)	E. St. Louis, Ill.	
WWRL	ak	100	J(.25)	Woodside, N. Y.	-8:00 am-midnight
WWSW	ak	100	(.25)	Pittsburgh, Pa.	

**1510 kcys. (198.6)**

CFRC	ak	100	F	Kingston, Ont.	-Noon-11:00 pm
CKCR	ak	100	....	Waterloo, Ont.	-8:00 am-11:00 pm

**1530 kcys. (196.0)**

KXBY	ak	1000	....	Kansas City, Mo.	-8:00 am-3:30 am
WBRy	ak	1000	M	Waterbury, Conn.	-8:00 am-midnight

**1550 kcys. (193.4)**

KPMC	ak	1000	M	Bakersfield, Calif.	-10:00 am-2:00 am
WQXR	ak	1000	....	New York, N. Y.	-10:00 am-9:15 pm

## 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	CALIFORNIA	Santa Barbara	FLORIDA
Birmingham	Bakersfield	KDB 1500 100M	Clearwater
WAPI 1140 5000 R	KERN 1370 100 N	KTMS 1220 500 B	WFLA 620 1000 N
WBRC 930 1000 C	KPMC 1550 1000M	Santa Rosa	Daytona Beach
WSGN 1310 100 B	Berkeley	KSRO 1310 250	WMFJ 1420 100
Decatur	KRE 1370 100	Stockton	Gainesville
WMFO 1370 100	Beverly Hills	KGDM 1100 1000M	WRUF 830 5000
Dothan	KMPC 710 500	KWG 1200 100 N	Jacksonville
WAGF 1370 250	Chico	Visalia	WJAX 900 1000 N
Gadsden	KHSL 1260 250	KTKC 1190 250	WMBR 1370 100 C
WJBY 1210 100	El Centro	Watsonville	Lakeland
Huntsville	KXO 1500 100	KHUB 1310 250	WLAJ 1310 100
WBHP 1200 100	Eureka	COLORADO	Miami
Mobile	KIEM 1450 500M	Alamosa	WIOD 610 1000 N
WALA 1380 500 C	Fresno	KGIV 1420 100	WMBF 610 1000
Montgomery	KARM 1310 100	Colorado Springs	WQAM 560 1000 C
WSFA 1410 500 C	KMJ 580 1000 N	KVOR 1270 1000 C	Miami Beach
Selma	Glendale	Denver	WKAT 1500 100
WHBB 1500 100	KIEV 850 250	KFEL 920 500M	Orlando
Sheffield	Hollywood	KLZ 560 1000 C	WDBO 580 1000 C
WMSD 1420 100	KFWB 950 1000	KOA 830 5000 R	Pensacola
Tuscaloosa	Long Beach	KPOF 880 500	WCOA 1340 500 C
WJRD 1200 250	KFOX 1250 1000	KVOD 920 500 B	St. Augustine
ALASKA	KGER 1360 1000	Durango	WFOY 1210 100
Anchorage	Los Angeles	KIUP 1370 100	St. Petersburg
KFQD 780 250	KECA 1430 1000 B	Grand Junction	WSUN 620 1000 N
Juneau	KEHE 780 1000	KFJX 1200 100	Tallahassee
KINY 1310 100	KFAC 1300 1000	Greeley	WTAL 1310 100
Ketchikan	KFI 640 5000 R	KFKA 880 500M	Tampa
KGBU 900 500	KFSG 1120 500	La Junta	WDAE 1220 1000 G
ARIZONA	KFVD 1000 1000	KOKO 1370 100	West Palm Beach
Jerome	KGFJ 1200 100	Lamar	WJNO 1200 100 C
KCRJ 1310 100	KHJ 900 1000M	KIDW 1420 100	GEORGIA
Lowell	KMTR 570 1000	Pueblo	Albany
KSUN 1200 100	KNX 1050 5000 C	KGHF 1320 500 B	WGPC 1420 100
Phoenix	KRDK 1120 500	Sterling	Atlanta
KOY 1390 1000 C	Merced	KGEK 1200 100	WAGA 1450 500
KTAR 620 1000 N	KYOV 1040 250	CONNECTICUT	WATL 1370 100
Tucson	Modesto	Bridgeport	WGST 890 1000 C
KGAR 1370 100	KTRB 740 250	WICC 600 500M	WSB 740 5000 R
KVOA 1260 1000	Monterey	Hartford	Augusta
Yuma	KDON 1210 100M	WDRC 1330 1000 C	WRDW 1500 100 R
KUMA 1420 100	Oakland	WTIC 1040 5000 R	Columbus
ARKANSAS	KLS 1280 250	WTHT 1200 100M	WRBL 1200 100
Blytheville	KLX 880 1000	New Britain	Griffin
KLCN 1290 100	KROW 930 1000	WNBC 1380 250	WKEU 1500 100
El Dorado	Pasadena	New Haven	Macon
KELD 1370 100	KPPC 1210 100	WELI 900 500	WMAZ 1180 1000 C
Fort Smith	Redding	New London	Rome
KFPW 1210 100	KVCV 1200 100	WNLC 1500 100M	WRGA 1500 100
Hot Springs	Sacramento	Waterbury	Savannah
KTHS 1060 10000 N	KFBK 1490 5000 N	WATR 1190 100	WTQC 1260 1000 C
Jonesboro	KROY 1210 100	WBRY 1530 1000M	Thomasville
KBTM 1200 100	San Bernardino	DELAWARE	WPAX 1210 100
Little Rock	KFXM 1210 100M	Wilmington	Waycross
KARK 890 500 N	San Diego	WDEL 1120 250 R	WAYX 1200 100
KGHI 1200 100	KFSD 600 1000 B	WILM 1420 100	HAWAII
KLRA 1390 1000 C	KGB 1330 1000M	DISTRICT OF COLUMBIA	Hilo
Pine Bluff	San Francisco	Washington	KHBC 1400 250M
KOTN 1500 100	KFRC 610 1000M	WJVS 1460 10000 C	Honolulu
Siloam Springs	KGGC 1420 100	WMAL 630 250 B	KGMB 1320 1000 C
KUOA 1260 5000	KGO 790 7500 B	WOL 1310 100M	KGU 750 2500 N
	KJBS 1070 500	WRC 950 500 R	IDAHO
	KPO 680 5000 R		Boise
	KSFO 560 1000 C		KIDO 1350 1000 N
	KYA 1230 1000		
	San Jose		
	KQW 1010 1000M		
	San Luis Obispo		
	KVEC 1200 250		
	Santa Ana		
	KVOE 1500 100M		

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Coeur d'Alene</b>                      KGCI 1200 100                      Idaho Falls                      KID 1320 500                      Lewiston                      KRLC 1390 250                      Nampa                      KFXD 1200 100                      Pocatello                      KSEI 900 250                      Twin Falls                      KTFI 1240 1000</p> <hr/> <p style="text-align: center;"><b>ILLINOIS</b></p> <hr/> <p><b>Bloomington</b>                      WJBC 1200 100                      Carthage                      WCAZ 1070 100                      Champaign                      WDWS 1370 100                      Chicago                      WAAF 920 1000                      WBBM 770 50000 C                      WCBD 1080 5000                      WCFL 970 5000 N                      WCRW 1210 100                      WEDC 1210 100                      WENR 870 50000 B                      WCES 1360 500                      WGN 720 50000 M                      WJJD 1130 20000                      WLS 870 50000 B                      WMAQ 670 50000 R                      WMBI 1080 5000                      WSBC 1210 100                      Cicero                      WHFC 1420 100                      Decatur                      WJBL 1200 100                      East Dubuque                      WKBB 1500 100                      East St. Louis                      WTMV 1500 100                      Harrisburg                      WEBQ 1210 100                      Joliet                      WCLS 1310 100                      Peoria                      WMBD 1440 1000 C                      Quincy                      WTAD 900 1000                      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;"><b>INDIANA</b></p> <hr/> <p><b>Anderson</b>                      WHBU 1210 100                      Elkhart                      WTRC 1310 100                      Evansville                      WEOA 1370 100 C                      WGBF 630 500 N</p>	<p><b>Fort Wayne</b>                      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;"><b>IOWA</b></p> <hr/> <p><b>Ames</b>                      WOI 640 5000                      Boone                      KFGQ 1370 100                      Cedar Rapids                      WMT 600 1000 B                      Davenport                      WOC 1370 100 C                      Decorah                      KGCA 1270 100                      KWLK 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                      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;"><b>KANSAS</b></p> <hr/> <p><b>Abilene</b>                      KFBI 1050 5000                      Coffeyville                      KGGF 1010 1000 M                      Dodge City                      KGNO 1340 250                      Garden City                      KIUL 1210 100                      Great Bend                      KVBG 1370 100                      Hutchinson                      KWBG 1420 100</p>	<p><b>Kansas City</b>                      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;"><b>KENTUCKY</b></p> <hr/> <p><b>Ashland</b>                      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;"><b>LOUISIANA</b></p> <hr/> <p><b>Alexandria</b>                      KALB 1210 100                      Baton Rouge                      WJBO 1120 500 B                      Lafayette                      KVOL 1310 100                      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;"><b>MAINE</b></p> <hr/> <p><b>Augusta</b>                      WRDO 1370 100 M                      Bangor                      WABI 1200 100                      WLBZ 620 500 C                      Portland                      WGSN 940 1000 R                      WGAN 640 500                      Presque Isle                      WAGM 1420 100</p>	<p style="text-align: center;"><b>MARYLAND</b></p> <hr/> <p><b>Baltimore</b>                      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;"><b>MASSACHUSETTS</b></p> <hr/> <p><b>Boston</b>                      WAAB 1410 500 M                      WBZ 990 50000 B                      WCOP 1120 500                      WEI 590 1000 C                      WHDH 830 1000                      WMEX 1500 100                      WNAC 1230 1000 R                      WORL 920 500                      Fall River                      WSAR 1450 1000 M                      Greenfield                      ..... 1210 250                      Lawrence                      WLAW 680 1000                      ..... 1370 10-100                      Lowell                      WLLH 1370 100 M                      New Bedford                      WNBH 1310 100 M                      Pittsfield                      WBRK 1310 100                      Springfield                      WBZA 990 1000 B                      WMAS 1420 100 C                      WSPR 1140 500 M                      Worcester                      WORC 1280 500 C                      WTAG 580 1000 R</p> <hr/> <p style="text-align: center;"><b>MICHIGAN</b></p> <hr/> <p><b>Battle Creek</b>                      WELL 1420 100                      Bay City                      WBCM 1410 500                      Calumet                      WHDF 1370 100                      Detroit                      WJBK 1500 100                      WJR 750 50000 C                      WMBC 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</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Kalamazoo		
WKZO	590	1000 B
Lansing		
WJIM	1210	100
Lapeer		
WMPC	1200	100
Marquette		
WBEO	1310	100
Muskegon		
WKBZ	1500	100
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
Hiibbing		
WMFG	1210	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
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		
.....	1310	100
St. Joseph		
KKEQ	680	2500
St. Louis		
KFUO	550	500
KMOX	1090	50000 C
KSD	550	1000 R
KWK	1350	1000 B
WEW	760	1000
WIL	1200	100
Springfield		
KGBX	1230	500 N
KWTO	560	5000

MONTANA

Billings		
KGHL	780	1000 N
Butte		
KGRJ	1340	1000 N
Great Falls		
KFBX	1280	1000 C
Helena		
KPFA	1210	100
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		
KGFW	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
Roswell		
KGFL	1370	100
Santa Fe		
KRQA	1310	100

NEW YORK

Albany		
WABY	1370	100
WOKO	1430	500 C
Auburn		
WMOB	1310	100
Binghamton		
WNBF	1500	100 C
Brooklyn		
WARD	1400	500
WBBC	1400	500
WBBR	1300	1000
WCNW	1500	100
WLTH	1400	500
WMBQ	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

WBOO	860	50000
WEAF	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
WOV	1130	1000
WQXR	1550	1000
Olean		
WHDL	1400	250
Plattsburg		
WMFF	1310	100
Rochester		
WHAM	1150	50000 B
WHEC	1430	500 C
WSAY	1210	100
Saranac Lake		
WNBZ	1290	100
Schenectady		
WGY	790	50000 R
Syracuse		
WFBL	1360	1000 C
WSYR	570	1000 B
Troy		
WHAZ	1300	1000
Utica		
WBX	1200	100 C
Watertown		
WNNY	1420	100
White Plains		
WFAS	1210	100
Woodside		
WWRL	1500	100

NORTH CAROLINA

Asheville		
WWNC	570	1000 N
Charlotte		
WBT	1080	50000 C
WSOC	1210	100 N
Durham		
WDNC	500	100 C
Greensboro		
WBG	1440	1000 C
High Point		
WMFR	1200	100
Kinston		
WFTC	1200	100
Raleigh		
WPTF	680	1000 N
Rocky Mount		
WEED	1420	100
Wilmington		
WMFD	1370	100
Wilson		
WGTM	1310	100
Winston-Salem		
WAIR	1250	250
WSJS	1310	100 C

NORTH DAKOTA

Bismarck		
KFYR	550	1000 N
Devils Lake		
KDLR	1210	100
Fargo		
WDAY	940	1000 N
Grand Forks		
KFJM	1410	500



NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Palestine KNET 1420 100	WRTD 1500 100 B WRVA 1110 5000 C Roanoke WDBJ 930 1000 C	LaCrosse WKBH 1380 1000 C Madison WHA 940 5000 WIBA 1280 1000 N Manitowoc WOMT 1210 100 Milwaukee WEMP 1310 100 WISN 1120 250 C WTMJ 620 1000 N Poynette WIBU 1210 100 Racine WRJN 1370 100 Sheboygan WHBL 1300 250 Stevens Point WLBL 900 5000 Superior WDSM 1200 100 Wausau WSAU 1370 100	Winnipeg CJRC 630 500 F CKY 760 15000 F
Pampa KPDN 1310 100	<b>WASHINGTON</b>		<b>NEW BRUNSWICK</b>
Paris KPLT 1500 250	Aberdeen KXRO 1310 100M Bellingham KVOS 1200 100M Centralia-Chehalis KELA 1440 500M	WOMT 1210 100 Milwaukee WEMP 1310 100 WISN 1120 250 C WTMJ 620 1000 N Poynette WIBU 1210 100 Racine WRJN 1370 100 Sheboygan WHBL 1300 250 Stevens Point WLBL 900 5000 Superior WDSM 1200 100 Wausau WSAU 1370 100	Fredericton CFNB 550 500 F Moncton CKCW 1370 100 F St. John CHSJ 1120 500 F
Pecos KIUN 1420 100	Everett KRKO 1370 50 Longview KWLK 780 250 Olympia KGY 1210 100M Pullman KWSC 1220 1000 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	WOMT 1210 100 Milwaukee WEMP 1310 100 WISN 1120 250 C WTMJ 620 1000 N Poynette WIBU 1210 100 Racine WRJN 1370 100 Sheboygan WHBL 1300 250 Stevens Point WLBL 900 5000 Superior WDSM 1200 100 Wausau WSAU 1370 100	<b>N. W. TERRITORY</b>
Port Arthur KPAC 1260 500	Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHO 590 1000 R Tacoma KMO 1330 1000M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KPO 1500 100M Yakima KIT 1310 100M	Winnipeg CJRC 630 500 F CKY 760 15000 F	Aklavik CJCU 1210 50
San Angelo KSKL 1370 100	<b>WEST VIRGINIA</b>	<b>WYOMING</b>	<b>NOVA SCOTIA</b>
San Antonio KABC 1420 100 KMCC 1370 100 KONO 1370 100 KTSA 550 1000 C WOAI 1190 50000 N	Bluefield WHIS 1410 500 Charleston WCHS 580 500 C Clarksburg WBLK 1370 100 Fairmont WMMN 890 500 C Huntington WSAZ 1190 1000 Parkersburg WPAR 1420 100 C Wheeling WWVA 1160 5000 C	Casper KDFN 1440 500 Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100	Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F Sydney CJCB 1240 1000 F Wolfville CKIC 1010 50 Yarmouth CJLS 1310 100
Sherman KRRV 1310 250	<b>VERMONT</b>	<b>CANADA</b>	<b>ONTARIO</b>
Temple KTEM 1370 250	Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans WQDM 1390 1000 Springfield WNBX 1260 500 C Waterbury WDEV 550 500	<b>ALBERTA</b>	Brantford CKPK 930 100 F Chatham CFCO 630 100 F Cobalt CKMK 1210 50 Fort William CKPR 730 100 F Hamilton CHML 1010 100 F CKOC 1120 500 F Kingston CFRC 1510 100 F London CFPL 730 100 F North Bay CFCH 930 100 F CJL 1310 100 CKGB 1420 100 Ottawa CBO 880 1000 F CKCO 1010 100 F Owen Sound ..... 1370 100 Prescott CFLC 930 100 St. Catharines CKTB 1200 100 F Sault Ste. Marie CJIC 1500 100 Stratford CJCS 1210 50 Sudbury CKSO 780 1000 F Toronto CBL 840 50000 CFRB 690 10000 C CKCL 580 100 F CRCT 840 5000 N CRCY 960 100 F
Texarkana KCMC 1420 100	<b>VIRGINIA</b>	Calgary CFAC 930 1000 F CFCN 1030 10000 CJGJ 690 100 F Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500 Grande Prairie CFGP 1200 100 Lethbridge CJOC 950 100 F	<b>BRIT. COLUMBIA</b>
Tyler KGBK 1500 100	Charlottesville WCHV 1420 100 Danville WBTM 1370 100 Harrisonburg WSVA 550 500 Lynchburg WLVA 1200 100 Newport News WGHN 1310 100 Norfolk WTAR 780 1000 N Richmond WBBL 1210 100 WMBG 1350 500 R WRNL 880 500	Chatham CFCO 630 100 F Cobalt CKMK 1210 50 Fort William CKPR 730 100 F Hamilton CHML 1010 100 F CKOC 1120 500 F Kingston CFRC 1510 100 F London CFPL 730 100 F North Bay CFCH 930 100 F CJL 1310 100 CKGB 1420 100 Ottawa CBO 880 1000 F CKCO 1010 100 F Owen Sound ..... 1370 100 Prescott CFLC 930 100 St. Catharines CKTB 1200 100 F Sault Ste. Marie CJIC 1500 100 Stratford CJCS 1210 50 Sudbury CKSO 780 1000 F Toronto CBL 840 50000 CFRB 690 10000 C CKCL 580 100 F CRCT 840 5000 N CRCY 960 100 F	Waterloo CKCR 1510 100 Windsor CBW 600 500 F CKLW 1030 5000M
Waco WACO 1420 100 C	<b>WISCONSIN</b>	Chilliwack CHWK 780 100 F Kamloops CFJC 880 100 F Kelowna CKOV 630 100 F Prince Rupert CFPR 580 50 Trail CJAT 910 1000 F Vancouver CBR 1100 5000 F CJOR 600 500 CKCD 1010 100 CKFC 1410 50 CKMO 1410 100 CKWX 1010 100 F Victoria CFCT 1450 50	<b>MANITOBA</b>
Weslaco KRGV 1260 1000 N	Eau Claire WEAU 1050 1000 Fond du Lac KFIZ 1420 100 Green Bay WHBY 1200 100 WTAQ 1330 1000 C Janesville WCLO 1200 100	Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500 Grande Prairie CFGP 1200 100 Lethbridge CJOC 950 100 F	Brandon CKX 1120 1000 F Flin Flon CFAR 1370 100
Wichita Falls KGKO 570 250 C		Rock Springs KVRS 1370 100 Sheridan KWYO 1370 100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Wingham CKNX 1200 100	XELO 670 5000 XEMO 860 5000 XEOK 760 2500	MICHOACAN	Camaguey CMJA 1010 300 CMJC 1390 150 CMJE 1220 50 CMJF 1150 200 CMJK 780 250 CMJL 1340 75 CMJX 830 500
PRINCE EDWARD ISLAND	CHIHUAHUA	Morelia XEI 1370 125	Cardenas CMGE 1370 150 Ciego de Avila CMJH 1360 50 CMJI 1130 150 CMJO 1180 50
Charlottetown CPCY 630 1000 F CHCK 1310 50 Summerside CHGS 1450 50 F	Chihuahua XEFI 1440 250 Juarez XEFV 1210 100 XEF 1450 100 XEJ 1020 1000 XEP 1160 500 Parral XEAT 1210 250	NUEVO LEON Monterrey XEFB 870 200 XEFJ 1230 100 XEG 1220 250 XEH 720 250 XET 690 5000 XEX 1310 125	Cienfuegos CMHJ 1160 175 CMHM 1450 100 CMHW 820 100 CMHX 760 200
QUEBEC	COAHUILA	PUEBLA Puebla XETH 1210 100	Cruces CMHK 1330 250 Havana CMBC 630 CMBD 1170 500 CMBG 1140 200 CMBL 710 CMBS 770 150 CMBX 1070 500 CMBY 970 150 CMBZ 1000 500 CMC 1260 150 CMCA 1350 450 CMCB 640 150 CMCD 950 250 CMCF 810 600 CMCG 680 1000 CMCJ 1100 500 CMCK 1030 CMCM 850 CMCO 1200 250 CMCQ 1410 250 CMCU 1280 500 CMCW 750 150 CMCX 1030 150 CMCY 570 5000 CMK 730 3000 CMOA 1440 150 CMOX 1320 200 CMO 880 25000 CMW 600 1400 CMX 920 1000
Chicoutimi CRCS 1120 100 F Hull CKCH 1210 100 F Montreal CBF 910 50000 N CBM 1050 5000 F CFCF 600 500 B CHLP 1129 100 F CKAC 730 5000 C New Carlisle CHNC 960 1000 F Quebec CHRC 580 100 CKCV 1310 100 F CRCK 950 1000 F Rimouski CJBR 1030 1000 F Sherbrooke CHLT 1210 100 Three Rivers CHLN 1420 100	Piedras Negras XEMU 580 XEPN 730 100000 Sabinas XEBX 640 250 Sattillo XEAS 1160 50 XELA 1240 50 Torreon XETB 1310 125 Villa Acuna XERA 840 350000	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Chicoutimi CRCS 1120 100 F Hull CKCH 1210 100 F Montreal CBF 910 50000 N CBM 1050 5000 F CFCF 600 500 B CHLP 1129 100 F CKAC 730 5000 C New Carlisle CHNC 960 1000 F Quebec CHRC 580 100 CKCV 1310 100 F CRCK 950 1000 F Rimouski CJBR 1030 1000 F Sherbrooke CHLT 1210 100 Three Rivers CHLN 1420 100	D. F. Atzacapotzalco XEMG 1060 100 Gra. Anaya XEDA 1220 200 Mexico City XEAL 660 1000 XEAY 1240 100 XEB 1030 10000 XEBB 1240 200 XEBZ 1160 100 XECW 1310 10 XEDP 1080 500 XEPD 930 5000 XELP 1130 100 XELW 870 XELX 990 100 XEL 780 1000 XELZ 1370 100 XEMX 1280 100 XENC 860 50 XEW 890 50000 XEXE 1270 17 XEYO 940 500 Tacuba XEFA 1180 500	SONORA Hermosillo XEBH 930 500 Nogales XEAF 990 750 Obregon XEAP 1240 50	TAMAULIPAS Matamoros XEAM 750 25 Nuevo Laredo XEBK 1000 60 XEDF 810 75 XEFE 980 150 XENT 910 150000 Reynosa XEAW 960 50000 Tampico XEFW 1310 250 XES 990 250
SASKATCHEWAN	Mexico City XEAL 660 1000 XEAY 1240 100 XEB 1030 10000 XEBB 1240 200 XEBZ 1160 100 XECW 1310 10 XEDP 1080 500 XEPD 930 5000 XELP 1130 100 XELW 870 XELX 990 100 XEL 780 1000 XELZ 1370 100 XEMX 1280 100 XENC 860 50 XEW 890 50000 XEXE 1270 17 XEYO 940 500 Tacuba XEFA 1180 500	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Moose Jaw CHAB 1200 100 F Prince Albert CKBI 1210 100 F Regina CJRM 540 1000 CKCK 1010 1000 F Saskatoon CFOC 840 1000 F Yorkton CJGX 1390 100 F	DURANGO Durango XEE 1210 50	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
NEWFOUNDLAND	GUANAJUATO Irapuato XEBO 1310 25 Leon XEKL 1240 500	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
St. John's VOAC 1065 40 VOAS 940 100 VOGM 1006 200 VOGY 840 400 VONF 1195 500 VOWR 681 500	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
MEXICO	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
AGUASCALIENTES	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Aguascalientes XEBI 1000 25 XEXC 810 350	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
BAJA CALIFORNIA	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100	JALISCO Guadalajara XEAD 1060 125 XED 1160 2500 Guzman XEBA 1080 20	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	SINALOA Mazatlan XEBL 1220 50
Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 T			

**NORTH AMERICAN B. C. STATIONS BY CALLS**

<b>CBF</b> 910 Montreal, P. Q.	50000	<b>CJAT</b> 910 Trail, B. C.	1000	<b>CKSO</b> 780 Sudbury, Ont.	1000
<b>CBL</b> 840 Toronto, Ont.	50000	<b>CJBR</b> 1030 Rimouski, P. Q.	1000	<b>CKTB</b> 1200 St. Catharines, Ont.	100
<b>CBM</b> 1050 Montreal, P. Q.	5000	<b>CJCA</b> 730 Edmonton, Alta.	1000	<b>CKUA</b> 580 Edmonton, Alta.	500
<b>CBO</b> 880 Ottawa, Ont.	1000	<b>CJCB</b> 1240 Sydney, N. S.	1000	<b>CKWX</b> 1010 Vancouver, B. C.	100
<b>CBR</b> 1100 Vancouver, B. C.	5000	<b>CJCJ</b> 690 Calgary, Alta.	100	<b>CKX</b> 1120 Brandon, Man.	1000
<b>CBW</b> 600 Windsor, Ont.	500	<b>CJCS</b> 1210 Stratford, Ont.	50	<b>CKY</b> 760 Winnipeg, Man.	15000
<b>CFAC</b> 930 Calgary, Alta.	1000	<b>CJCU</b> 1210 Aklavik, N. W. T.	50	<b>CMAB</b> 1340 Pinar del Rio, Cuba	
<b>CFAR</b> 1370 Flin Flon, Man.	100	<b>CJGX</b> 1390 Yorkton, Sask.	100	<b>CMBC</b> 630 Havana, Cuba	....
<b>CFCF</b> 600 Montreal, Que.	500	<b>CJIC</b> 1500 S. Ste. Marie, Ont.	100	<b>CMBD</b> 1170 Havana, Cuba	500
<b>CFCH</b> 930 North Bay, Ont.	100	<b>CJKL</b> 1310 North Bay, Ont.	100	<b>CMBG</b> 1140 Havana, Cuba	200
<b>CFCN</b> 1030 Calgary, Alta.	10000	<b>CJLS</b> 1310 Yarmouth, N. S.	100	<b>CMBL</b> 710 Havana, Cuba	....
<b>CFCO</b> 630 Chatham, Ont.	100	<b>CJOC</b> 950 Lethbridge, Alta.	100	<b>CMBS</b> 770 Havana, Cuba	150
<b>CFCT</b> 1450 Victoria, B. C.	50	<b>CJOR</b> 600 Vancouver, B. C.	500	<b>CMBX</b> 1070 Havana, Cuba	500
<b>CFCY</b> 630 Charlottetown, P.E.I.	1000	<b>CJRC</b> 630 Winnipeg, Man.	500	<b>CMBY</b> 970 Havana, Cuba	150
<b>CFGP</b> 1200 Grande Prairie, Alta.	100	<b>CJRM</b> 540 Regina, Sask.	1000	<b>CMBZ</b> 1000 Havana, Cuba	500
<b>CFJC</b> 880 Kamloops, B. C.	100	<b>CKAC</b> 730 Montreal, Que.	5000	<b>CMC</b> 1260 Havana, Cuba	150
<b>CFLC</b> 930 Prescott, Ont.	100	<b>CKBI</b> 1210 Prince Albert, Sask.	100	<b>CMCA</b> 1350 Havana, Cuba	450
<b>CFNB</b> 550 Fredericton, N. B.	500	<b>CKCD</b> 1010 Vancouver, B. C.	100	<b>CMCB</b> 640 Havana, Cuba	150
<b>CFPL</b> 730 London, Ont.	100	<b>CKCH</b> 1210 Hull, Que.	100	<b>CMCD</b> 950 Havana, Cuba	250
<b>CFPR</b> 580 Prince Rupert, B. C.	50	<b>CKCK</b> 1010 Regina, Sask.	1000	<b>CMCF</b> 810 Havana, Cuba	600
<b>CFQC</b> 840 Saskatoon, Sask.	1000	<b>CKCL</b> 580 Toronto, Ont.	100	<b>CMCG</b> 680 Havana, Cuba	1000
<b>CFRB</b> 690 Toronto, Ont.	10000	<b>CKCO</b> 1010 Ottawa, Ont.	100	<b>CMCJ</b> 1100 Havana, Cuba	500
<b>CFRC</b> 1510 Kingston, Ont.	100	<b>CKCR</b> 1510 Waterloo, Ont.	100	<b>CMCK</b> 1030 Havana, Cuba	....
<b>CFRN</b> 960 Edmonton, Alta.	100	<b>CKCV</b> 1310 Quebec, Que.	100	<b>CMCM</b> 850 Havana, Cuba	....
<b>CHAB</b> 1200 Moose Jaw, Sask.	100	<b>CKCW</b> 1370 Moncton, N. B.	100	<b>CMCO</b> 1200 Havana, Cuba	250
<b>CHCK</b> 1310 Charlottetown, P.E.I.	50	<b>CKFC</b> 1410 Vancouver, B. C.	50	<b>CMCQ</b> 1410 Havana, Cuba	250
<b>CHGS</b> 1450 Summerside, P.E.I.	50	<b>CKGB</b> 1420 North Bay, Ont.	100	<b>CMCU</b> 1280 Havana, Cuba	500
<b>CHLN</b> 1420 Three Rivers, P. Q.	100	<b>CKIC</b> 1010 Wolfville, N. S.	50	<b>CMCW</b> 750 Havana, Cuba	150
<b>CHLP</b> 1120 Montreal, Que.	100	<b>CKLW</b> 1030 Windsor, Ont.	5000	<b>CMCX</b> 1030 Havana, Cuba	150
<b>CHLT</b> 1210 Sherbrooke, P. Q.	100	<b>CKMC</b> 1210 Cobalt, Ont.	50	<b>CMCY</b> 570 Havana, Cuba	5000
<b>CHML</b> 1010 Hamilton, Ont.	100	<b>CKMO</b> 1410 Vancouver, B. C.	100	<b>CMGC</b> 1400 Matanzas, Cuba	150
<b>CHNC</b> 960 New Carlisle, Que.	1000	<b>CKNX</b> 1200 Wingham, Ont.	100	<b>CMGE</b> 1370 Cardenas, Cuba	150
<b>CHNS</b> 930 Halifax, N. S.	1000	<b>CKOC</b> 1120 Hamilton, Ont.	500	<b>CMGF</b> 1120 Matanzas, Cuba	250
<b>CHRC</b> 580 Quebec, Que.	100	<b>CKOV</b> 630 Kelowna, B. C.	100	<b>CMGH</b> 790 Matanzas, Cuba	500
<b>CHSJ</b> 1120 St. John, N. B.	500	<b>CKPC</b> 930 Brantford, Ont.	100	<b>CMHA</b> 1070 Sagua la Grande, Cuba	50
<b>CHWK</b> 780 Chilliwack, B. C.	100	<b>CKPR</b> 730 Fort William, Ont.	100	<b>CMHB</b> 1240 Sancti Spiritus, Cuba	50



## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>CMHD</b> 1270 Caibarien, Cuba	250	<b>CRCY</b> 960 Toronto, Ont.	100	<b>KELD</b> 1370 El Dorado, Ark.	100
<b>CMHI</b> 1210 Santa Clara, Cuba	150	<b>KABC</b> 1420 San Antonio, Texas	100	<b>KELO</b> 1200 Sioux Falls, S. Dak.	100
<b>CMHJ</b> 1160 Cienfuegos, Cuba	175	<b>KABR</b> 1420 Aberdeen, S. Dak.	100	<b>KERN</b> 1370 Bakersfield, Calif.	100
<b>CMHK</b> 1330 Cruces, Cuba	250	<b>KADA</b> 1200 Ada, Okla.	100	<b>KEUB</b> 1420 Price, Utah	100
<b>CMHM</b> 1450 Cienfuegos, Cuba	100	<b>KALB</b> 1210 Alexandria, La	100	<b>KEX</b> 1180 Portland, Ore.	5000
<b>CMHW</b> 820 Cienfuegos, Cuba	100	<b>KALE</b> 1300 Portland, Ore.	500	<b>KFAB</b> 770 Lincoln, Neb.	10000
<b>CMHX</b> 760 Cienfuegos, Cuba	200	<b>KAND</b> 1310 Corsicana, Texas	100	<b>KFAC</b> 1300 Los Angeles, Calif.	1000
<b>CMJA</b> 1010 Camaguey, Cuba	300	<b>KANS</b> 1210 Wichita, Kans	100	<b>KFAM</b> 1420 St. Cloud, Minn.	100
<b>CMJC</b> 1390 Camaguey, Cuba	150	<b>KARK</b> 890 Little Rock, Ark.	500	<b>KFBB</b> 1280 Great Falls, Mont.	1000
<b>CMJE</b> 1220 Camaguey, Cuba	50	<b>KARM</b> 1310 Fresno, Calif.	100	<b>KFBI</b> 1050 Abilene, Kans.	5000
<b>CMJF</b> 1150 Camaguey, Cuba	200	<b>KASA</b> 1210 Elk City, Okla.	100	<b>KFBK</b> 1490 Sacramento, Calif.	5000
<b>CMJH</b> 1360 Ciego de Avila, Cuba	50	<b>KAST</b> 1370 Astoria, Ore.	100	<b>KFDM</b> 560 Beaumont, Texas	500
<b>CMJI</b> 1130 Ciego de Avila, Cuba	150	<b>KATE</b> 1420 Albert Lea, Minn.	250	<b>KFDY</b> 780 Brookings, S. D.	1000
<b>CMJK</b> 780 Camaguey, Cuba	250	<b>KAWM</b> 1500 Gallup, N. Mex.	100	<b>KFEL</b> 920 Denver, Colo.	500
<b>CMJL</b> 1340 Camaguey, Cuba	75	<b>KBIX</b> 1500 Muskogee, Okla.	100	<b>KFEQ</b> 680 St. Joseph, Mo.	2500
<b>CMJO</b> 1180 Ciego de Avila, Cuba	50	<b>KBPS</b> 1420 Portland, Ore.	100	<b>KFGQ</b> 1370 Boone, Iowa	100
<b>CMJP</b> 1430 Camaguey, Cuba	75	<b>KBST</b> 1500 Big Spring, Texas	100	<b>KFH</b> 1300 Wichita, Kans.	1000
<b>CMJX</b> 830 Camaguey, Cuba	500	<b>KBTM</b> 1200 Jonesboro, Ark.	100	<b>KFI</b> 640 Los Angeles, Calif.	50000
<b>CMK</b> 730 Havana, Cuba	3000	<b>KCKN</b> 1310 Kansas City, Kans.	100	<b>KFIO</b> 1120 Spokane, Wash.	100
<b>CMKC</b> 1250 Santiago, Cuba	150	<b>KCMC</b> 1420 Texarkana, Texas	100	<b>KFIZ</b> 1420 Fond du Lac, Wis.	100
<b>CMKD</b> 1050 Santiago, Cuba	250	<b>KCMO</b> 1370 Kansas City, Mo.	100	<b>KFJB</b> 1200 Marshalltown, Iowa	100
<b>CMKF</b> 1460 Holguin, Cuba	250	<b>KCRC</b> 1360 Enid, Okla.	250	<b>KFJI</b> 1210 Klamath Falls, Ore.	100
<b>CMKG</b> 1160 Santiago, Cuba	....	<b>KCRJ</b> 1310 Jerome, Ariz.	100	<b>KFJM</b> 1410 Grand Forks, N. D.	500
<b>CMKM</b> 1120 Manzanillo, Cuba	200	<b>KDAL</b> 1500 Duluth, Minn.	100	<b>KFJZ</b> 1370 Fort Worth, Texas	100
<b>CMKO</b> 1280 Holguin, Cuba	....	<b>KDB</b> 1500 Santa Barbara, Calif.	100	<b>KFKA</b> 880 Greeley, Colo.	500
<b>CMKR</b> 1400 Santiago, Cuba	100	<b>KDFN</b> 1440 Casper, Wyo.	500	<b>KFKU</b> 1220 Lawrence, Kans.	1000
<b>CMKW</b> 1350 Santiago, Cuba	....	<b>KDKA</b> 980 Pittsburgh, Pa.	50000	<b>KFNF</b> 890 Shenandoah, Iowa	500
<b>CMKX</b> 1190 Santiago, Cuba	....	<b>KDLR</b> 1210 Devils Lake, N. D.	100	<b>KFOR</b> 1210 Lincoln, Neb.	100
<b>CMOA</b> 1440 Havana, Cuba	150	<b>KDNC</b> 1200 Lewistown, Mont.	100	<b>KFOX</b> 1250 Long Beach, Calif.	1000
<b>CMOX</b> 1320 Havana, Cuba	200	<b>KDON</b> 1210 Monterrey, Calif.	100	<b>KFPL</b> 1310 Dublin, Texas	100
<b>CMQ</b> 880 Havana, Cuba	25000	<b>KDTH</b> 1340 Dubuque, Iowa	500	<b>KFPW</b> 1210 Fort Smith, Ark.	100
<b>CMW</b> 600 Havana, Cuba	1400	<b>KDYL</b> 1290 Salt Lake City, Utah	1000	<b>KFPY</b> 890 Spokane, Wash.	1000
<b>CMX</b> 920 Havana, Cuba	1000	<b>KECA</b> 1430 Los Angeles, Calif.	1000	<b>KFQD</b> 780 Anchorage, Alaska	250
<b>CRCK</b> 950 Quebec, Que.	1000	<b>KEEN</b> 1370 Seattle, Wash.	100	<b>KFRC</b> 610 San Francisco, Calif.	1000
<b>CRCS</b> 1120 Chicoutimi, Que.	100	<b>KEHE</b> 780 Los Angeles, Calif.	1000	<b>KFRO</b> 1370 Longview, Texas	250
<b>CRCT</b> 840 Toronto, Ont.	5000	<b>KELA</b> 1440 Centralia-Chehalis, Wn.	500	<b>KFRU</b> 630 Columbia, Mo.	500

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KFSD</b> 600 1000	<b>KGGM</b> 1230 1000	<b>KIT</b> 1310 100
San Diego, Calif.	Albuquerque, N. M.	Yakima, Wash.
<b>KFSG</b> 1120 500	<b>KGHF</b> 1320 500	<b>KIUL</b> 1210 100
Los Angeles, Calif.	Pueblo, Colo.	Garden City, Kans.
<b>KFUO</b> 550 500	<b>KGHI</b> 1200 100	<b>KIUN</b> 1420 100
St. Louis, Mo.	Little Rock, Ark.	Peecos, Texas
<b>KFVD</b> 1000 1000	<b>KGHL</b> 780 1000	<b>KIUP</b> 1370 100
Los Angeles, Calif.	Billings, Mont.	Durango, Colo.
<b>KFVS</b> 1210 100	<b>KGIR</b> 1340 1000	<b>KJBS</b> 1070 500
Cape Girardeau, Mo.	Butte, Mont.	San Francisco, Calif.
<b>KFWB</b> 95 1000	<b>KGIW</b> 1420 100	<b>KJR</b> 970 5000
Hollywood, Calif.	Alamosa, Colo.	Seattle, Wash.
<b>KFXD</b> 1200 100	<b>KGKB</b> 1500 100	<b>KLAH</b> 1210 100
Nampa, Idaho	Tyler, Texas	Carlsbad, N. Mex.
<b>KFXJ</b> 1200 100	<b>KGKL</b> 1370 100	<b>KLBM</b> 1420 100
Grand Junction, Colo.	San Angelo, Texas	La Grande, Ore.
<b>KFXM</b> 1210 100	<b>KGKO</b> 570 250	<b>KLCN</b> 1290 100
San Bernardino, Calif.	Wichita Falls, Texas	Blytheville, Ark.
<b>KFXR</b> 1310 100	<b>KGKY</b> 1500 100	<b>KLO</b> 1400 500
Oklahoma City, Okla.	Scottsbluff, Neb.	Ogden, Utah
<b>KFYO</b> 1310 100	<b>KGLO</b> 1210 100	<b>KLPM</b> 1240 250
Lubbock, Texas	Mason City, Iowa	Minot, N. D.
<b>KFYR</b> 550 1000	<b>KGMB</b> 1320 1000	<b>KLRA</b> 1390 1000
Bismarck, N. D.	Honolulu, T. H.	Little Rock, Ark.
<b>KGA</b> 1470 5000	<b>KGNC</b> 1410 1000	<b>KLS</b> 1280 250
Spokane, Wash.	Amarillo, Texas	Oakland, Calif.
<b>KGAR</b> 1370 100	<b>KGNF</b> 1430 1000	<b>KLUF</b> 1370 100
Tucson, Ariz.	North Platte, Neb.	Galveston, Texas
<b>KGB</b> 1330 1000	<b>KGNO</b> 1340 250	<b>KLX</b> 880 1000
San Diego, Calif.	Dodge City, Kans.	Oakland, Calif.
<b>KGBU</b> 900 500	<b>KGO</b> 790 7500	<b>KLZ</b> 560 1000
Ketchikan, Alaska	San Francisco, Calif.	Denver, Colo.
<b>KGBX</b> 1230 500	<b>KGU</b> 750 2500	<b>KNA</b> 930 1000
Springfield, Mo.	Honolulu, T. H.	Shenandoah, Iowa
<b>KGCA</b> 1270 100	<b>KGVL</b> 1200 100	<b>KMAC</b> 1370 100
Decorah, Iowa	Greenville, Texas	San Antonio, Texas
<b>KGCI</b> 1200 100	<b>KGVO</b> 1260 1000	<b>KMBC</b> 950 1000
Coeur d'Alene, Idaho	Missoula, Mont.	Kansas City, Mo.
<b>KGCU</b> 1240 250	<b>KGW</b> 620 1000	<b>KMED</b> 1410 250
Mandan, N. D.	Portland, Ore.	Medford, Ore.
<b>KGCX</b> 1450 1000	<b>KGY</b> 1210 100	<b>KMJ</b> 580 1000
Wolf Point, Mont.	Olympia, Wash.	Fresno, Calif.
<b>KGDE</b> 1200 100	<b>KHBC</b> 1400 250	<b>KMLB</b> 1200 100
Fergus Falls, Minn.	Hilo, T. H.	Monroe, La.
<b>KGDM</b> 1100 1000	<b>KHBE</b> 1210 100	<b>KMMJ</b> 740 1000
Stockton, Calif.	Okmulgee, Okla.	Clay Center, Neb.
<b>KGDY</b> 1340 250	<b>KHJ</b> 900 1000	<b>KMO</b> 1330 1000
Huron, S. D.	Los Angeles, Calif.	Tacoma, Wash.
<b>KGEK</b> 1200 100	<b>KHQ</b> 590 1000	<b>KMOX</b> 1090 50000
Sterling, Colo.	Spokane, Wash.	St. Louis, Mo.
<b>KGER</b> 1360 1000	<b>KHSL</b> 1260 250	<b>KMPC</b> 710 500
Long Beach, Calif.	Chico, Calif.	Beverly Hills, Calif.
<b>KGEZ</b> 1310 100	<b>KHUB</b> 1310 250	<b>KMTR</b> 570 1000
Kalspell, Mont.	Watsonville, Calif.	Los Angeles, Calif.
<b>KGFF</b> 1420 100	<b>KICA</b> 1370 100	<b>KNEL</b> 1500 250
Shawnee, Okla.	Clovis, N. M.	Brady, Texas
<b>KGFI</b> 1500 100	<b>KID</b> 1320 500	<b>KNET</b> 1420 100
Brownsville, Tex.	Idaho Falls, Idaho	Palestine, Texas
<b>KGfJ</b> 1200 100	<b>KIDO</b> 1350 1000	<b>KNOW</b> 1500 100
Los Angeles, Calif.	Boise, Idaho	Austin, Texas
<b>KGFL</b> 1370 100	<b>KIDW</b> 1420 100	<b>KNX</b> 1050 50000
Roswell, N. M.	Lamar, Colo.	Los Angeles, Calif.
<b>KGFW</b> 1310 100	<b>KIEM</b> 1450 500	<b>KOA</b> 830 50000
Kearney, Neb.	Eureka, Calif.	Denver, Colo.
<b>KGFX</b> 630 200	<b>KIEV</b> 850 250	<b>KOAC</b> 550 1000
Pierre, S. D.	Glendale, Calif.	Corvallis, Ore.
<b>KGGC</b> 1420 100	<b>KINY</b> 1310 100	<b>KOAM</b> 790 1000
San Francisco, Calif.	Juneau, Alaska	Pittsburg, Kans.
<b>KGGF</b> 1010 1000	<b>KIRO</b> 710 1000	<b>KOB</b> 1180 10000
Coffeyville, Kans.	Seattle, Wash.	Albuquerque, N. M.

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KOBH</b> 1370	100	<b>KRLC</b> 1390	250	<b>KTMS</b> 1220	500
Rapid City, S. Dak.		Lewiston, Idaho		Santa Barbara, Calif.	
<b>KOCA</b> 1210	100	<b>KRLD</b> 1040	10000	<b>KTOK</b> 1370	100
Kilgore, Texas		Dallas, Texas		Oklahoma City, Okla.	
<b>KOH</b> 1380	500	<b>KRLH</b> 1420	100	<b>KTRB</b> 740	250
Reno, Nev.		Midland, Texas		Modesto, Calif.	
<b>KOIL</b> 1260	1000	<b>KRMC</b> 1370	100	<b>KTRH</b> 1290	1000
Omaha, Neb.		Jamestown, N. Dak.		Houston, Texas	
<b>KOIN</b> 940	1000	<b>KRMD</b> 1310	100	<b>KTRI</b> 1420	100
Portland, Ore.		Shreveport, La.		Sloux City, Iowa	
<b>KOKO</b> 1370	100	<b>KRNR</b> 1500	100	<b>KTSA</b> 550	1000
La Junta, Colo.		Roseburg, Ore.		San Antonio, Texas	
<b>KOL</b> 1270	1000	<b>KRNT</b> 1320	1000	<b>KTSM</b> 1310	100
Seattle, Wash.		Des Moines, Iowa		El Paso, Texas	
<b>KOMA</b> 1480	5000	<b>KROC</b> 1310	100	<b>KTUL</b> 1400	500
Oklahoma City, Okla.		Rochester, Minn.		Tulsa, Okla.	
<b>KOMO</b> 920	1000	<b>KROD</b> 1500	100	<b>KTW</b> 1220	1000
Seattle, Wash.		El Paso, Texas		Seattle, Wash.	
<b>KONO</b> 1370	100	<b>KROW</b> 930	1000	<b>KUJ</b> 1370	100
San Antonio, Texas		Oakland, Calif.		Walla Walla, Wash.	
<b>KOOS</b> 1200	100	<b>KROY</b> 1210	100	<b>KUMA</b> 1420	100
Marshfield, Ore.		Sacramento, Calif.		Yuma, Ariz.	
<b>KORE</b> 1420	100	<b>KRQA</b> 1310	100	<b>KUOA</b> 1260	5000
Eugene, Ore.		Santa Fe, N. Mex.		Siloam Springs, Ark.	
<b>KOTN</b> 1500	100	<b>KRRV</b> 1310	250	<b>KUSD</b> 890	500
Pine Bluff, Ark.		Sherman, Texas		Vermillion, S. Dak.	
<b>KOVC</b> 1500	100	<b>KRSC</b> 1120	250	<b>KUTA</b> 1500	100
Valley City, N. Dak.		Seattle, Wash.		Salt Lake City, Utah	
<b>KOY</b> 1390	1000	<b>KSAC</b> 580	500	<b>KVCV</b> 1200	100
Phoenix, Ariz.		Manhattan, Kans.		Redding, Calif.	
<b>KPAC</b> 1260	500	<b>KSAL</b> 1500	100	<b>KVEC</b> 1200	250
Port Arthur, Texas		Salina, Kans.		San Luis Obispo, Cal.	
<b>KPDN</b> 1310	100	<b>KSCJ</b> 1330	1000	<b>KVGB</b> 1370	100
Pampa, Texas		Sloux City, Iowa		Great Bend, Kans.	
<b>KPFA</b> 1210	100	<b>KSD</b> 550	1000	<b>KVI</b> 570	1000
Helena, Mont.		St. Louis, Mo.		Tacoma, Wash.	
<b>KPLC</b> 1500	100	<b>KSEI</b> 900	250	<b>KVOA</b> 1260	1000
Lake Charles, La.		Pocatello, Idaho		Tucson, Ariz.	
<b>KPLT</b> 1500	100	<b>KSFO</b> 560	1000	<b>KVOD</b> 920	500
Paris, Texas		San Francisco, Calif.		Denver, Colo.	
<b>KPMC</b> 1550	1000	<b>KSL</b> 1130	50000	<b>KVOE</b> 1500	100
Bakersfield, Calif.		Salt Lake City, Utah		Santa Ana, Calif.	
<b>KPO</b> 680	50000	<b>KSLM</b> 1370	100	<b>KVOL</b> 1310	100
San Francisco, Calif.		Salem, Ore.		Lafayette, La.	
<b>KPOF</b> 880	500	<b>KSO</b> 1430	500	<b>KVOO</b> 1140	25000
Denver, Colo.		Des Moines, Iowa		Tulsa, Okla.	
<b>KPPC</b> 1210	100	<b>KSOO</b> 1110	2500	<b>KVOR</b> 1270	1000
Pasadena, Calif.		Sloux Falls, S. Dak.		Colorado Springs, Colo.	
<b>KPQ</b> 1500	100	<b>KSRO</b> 1310	250	<b>KVS</b> 1200	100
Wenatchee, Wash.		Santa Rosa, Calif.		Bellingham, Wash.	
<b>KPRC</b> 920	1000	<b>KSTP</b> 1460	10000	<b>KVOX</b> 1310	100
Houston, Texas		St. Paul, Minn.		Moorhead, Minn.	
<b>KQV</b> 1380	500	<b>KSUB</b> 1310	100	<b>KVRS</b> 1370	100
Pittsburgh, Pa.		Cedar City, Utah		Rock Springs, Wyo.	
<b>KQW</b> 1010	1000	<b>KSUN</b> 1200	100	<b>KVSO</b> 1210	100
San Jose, Calif.		Lowell, Ariz.		Ardmore, Okla.	
<b>KRBA</b> 1310	100	<b>KTAR</b> 620	1000	<b>KWBG</b> 1420	100
Lufkin, Texas		Phoenix, Ariz.		Hutchinson, Kans.	
<b>KRBC</b> 1420	100	<b>KTAT</b> 1240	1000	<b>KWG</b> 1200	100
Abilene, Texas		Fort Worth, Texas		Stockton, Calif.	
<b>KRE</b> 1370	100	<b>KTBC</b> 1120	1000	<b>KWJJ</b> 1040	500
Berkeley, Calif.		Austin, Texas		Portland, Ore.	
<b>KRGV</b> 1260	1000	<b>KTBS</b> 1450	1000	<b>KWK</b> 1350	1000
Weslaco, Texas		Shreveport, La.		St. Louis, Mo.	
<b>KRIS</b> 1330	500	<b>KTEM</b> 1370	250	<b>KWKH</b> 1100	10000
Corpus Christi, Tex.		Temple, Texas		Shreveport, La.	
<b>KRKD</b> 1120	500	<b>KTFI</b> 1240	1000	<b>KWLC</b> 1270	100
Los Angeles, Calif.		Twin Falls, Idaho		Decorah, Iowa	
<b>KRKO</b> 1370	50	<b>KTHS</b> 1060	10000	<b>KWLK</b> 780	250
Everett, Wash.		Hot Springs, Ark.		Longview, Wash.	
		<b>KTKC</b> 1190	250	<b>KWNO</b> 1200	250
		Visalla, Calif.		Winona, Minn.	

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KWOS</b> 1310	100	<b>WAIR</b> 1250	250	<b>WBOQ</b> 860	50000
Jefferson City, Mo.		Winston-Salem, N. C.		New York, N. Y.	
<b>KWSC</b> 1220	1000	<b>WALA</b> 1380	500	<b>WBOW</b> 1310	100
Pullman, Wash.		Mobile, Ala.		Terre Haute, Ind.	
<b>KWTN</b> 1210	100	<b>WALR</b> 1210	100	<b>WBRB</b> 1210	100
Watertown, S. Dak.		Zanesville, Ohio		Red Bank, N. J.	
<b>KWTO</b> 560	5000	<b>WAML</b> 1310	100	<b>WBRC</b> 930	1000
Springfield, Mo.		Laurel, Miss.		Birmingham, Ala.	
<b>KWYO</b> 1370	100	<b>WAPI</b> 1140	5000	<b>WBRE</b> 1310	100
Sheridan, Wyo.		Birmingham, Ala.		Wilkes-Barre, Pa.	
<b>KXA</b> 760	250	<b>WAPQ</b> 1420	100	<b>WBRK</b> 1310	100
Seattle, Wash.		Chattanooga, Tenn.		Pittsfield, Mass.	
<b>KXBY</b> 1530	1000	<b>WARD</b> 1400	500	<b>WBRY</b> 1530	1000
Kansas City, Mo.		Brooklyn, N. Y.		Waterbury, Conn.	
<b>KXL</b> 1420	100	<b>WASH</b> 1270	500	<b>WBT</b> 1030	50000
Portland, Ore.		Grand Rapids, Mich.		Charlotte, N. C.	
<b>KXO</b> 1500	100	<b>WATL</b> 1370	100	<b>WBTM</b> 1370	100
El Centro, Calif.		Atlanta, Ga.		Danville, Va.	
<b>KXRO</b> 1310	100	<b>WATR</b> 1390	100	<b>WBZ</b> 990	50000
Aberdeen, Wash.		Waterbury, Conn.		Boston, Mass.	
<b>KXYZ</b> 1440	1000	<b>WAVE</b> 940	1000	<b>WBZA</b> 990	1000
Houston, Texas		Louisville, Ky.		Springfield, Mass.	
<b>KYA</b> 1230	1000	<b>WAWZ</b> 1350	500	<b>WCAD</b> 1220	500
San Francisco, Calif.		Zarephath, N. J.		Canton, N. Y.	
<b>KYOS</b> 1040	250	<b>WAYX</b> 1200	100	<b>WCAE</b> 1220	1000
Merced, Calif.		Waycross, Ga.		Pittsburgh, Pa.	
<b>KYW</b> 1020	10000	<b>WAZL</b> 1420	100	<b>WCAL</b> 1250	1000
Philadelphia, Pa.		Hazleton, Pa.		Northfield, Minn.	
<b>VAS</b> 685	2000	<b>WBAA</b> 890	500	<b>WCAM</b> 1280	500
Glace Bay, N. S.		West Lafayette, Ind.		Camden, N. J.	
<b>VOAC</b> 1065	40	<b>WBAL</b> 760	2500	<b>WCAO</b> 600	500
St. John's, Nfld.		Baltimore, Md.		Baltimore, Md.	
<b>VOAS</b> 940	100	<b>WBAL</b> 1060	10000	<b>WCAP</b> 1280	500
St. John's, Nfld.		Baltimore, Md.		Asbury Park, N. J.	
<b>VOCM</b> 1006	200	<b>WBAP</b> 800	50000	<b>WCAT</b> 1200	100
St. John's, Nfld.		Fort Worth, Texas		Rapid City, S. Dak.	
<b>VOGY</b> 840	400	<b>WBAX</b> 1210	100	<b>WCAU</b> 1170	50000
St. John's, Nfld.		Wilkes-Barre, Pa.		Philadelphia, Pa.	
<b>VONF</b> 1195	500	<b>WBBC</b> 1400	500	<b>WCAX</b> 1200	100
St. John's, Nfld.		Brooklyn, N. Y.		Burlington, Vt.	
<b>VOWR</b> 681	500	<b>WBBL</b> 1210	100	<b>WCAZ</b> 1070	100
St. John's, Nfld.		Richmond, Va.		Carthage, Ill.	
<b>WAAB</b> 1410	500	<b>WBDM</b> 770	50000	<b>WCBA</b> 1440	500
Boston, Mass.		Chicago, Ill.		Allentown, Pa.	
<b>WAAF</b> 920	1000	<b>WBBR</b> 1300	1000	<b>WCBD</b> 1080	5000
Chicago, Ill.		Brooklyn, N. Y.		Chicago, Ill.	
<b>WAAT</b> 940	500	<b>WBBZ</b> 1200	100	<b>WCBM</b> 1370	100
Jersey City, N. J.		Ponca City, Okla.		Baltimore, Md.	
<b>WAAW</b> 660	500	<b>WBCM</b> 1410	500	<b>WCBS</b> 1420	100
Omaha, Neb.		Bay City, Mich.		Springfield, Ill.	
<b>WABC</b> 860	50000	<b>WBBN</b> 900	1000	<b>WCCO</b> 810	50000
New York, N. Y.		Buffalo, N. Y.		Minneapolis, Minn.	
<b>WABI</b> 1200	100	<b>WBEO</b> 1310	100	<b>WCFL</b> 970	5000
Bangor, Maine		Marquette, Mich.		Chicago, Ill.	
<b>WABY</b> 1370	100	<b>WBHP</b> 1200	100	<b>WCHS</b> 580	500
Albany, N. Y.		Huntsville, Ala.		Charleston, W. Va.	
<b>WACO</b> 1420	100	<b>WBIG</b> 1440	1000	<b>WCHV</b> 1420	100
Waco, Texas		Greensboro, N. C.		Charlottesville, Va.	
<b>WADC</b> 1320	1000	<b>WBIL</b> 1100	5000	<b>WCKY</b> 1490	10000
Akron, Ohio		New York, N. Y.		Covington, Ky.	
<b>WAGA</b> 1450	500	<b>WBLK</b> 1370	100	<b>WCLE</b> 610	500
Atlanta, Ga.		Clarksburg, W. Va.		Cleveland, Ohio	
<b>WAGF</b> 1370	250	<b>WBLY</b> 1210	100	<b>WCLO</b> 1200	100
Dothan, Ala.		Lima, Ohio		Janesville, Wis.	
<b>WAGM</b> 1420	100	<b>WBNO</b> 1200	100	<b>WCLS</b> 1310	100
Presque Isle, Me.		New Orleans, La.		Joliet, Ill.	
<b>WAIM</b> 1200	100	<b>WBNS</b> 1430	500	<b>WCMI</b> 1310	100
Anderson, S. C.		Columbus, Ohio		Ashland, Ky.	
		<b>WBNX</b> 1350	1000	<b>WCNW</b> 1500	100
		New York, N. Y.		Brooklyn, N. Y.	
		<b>WBNY</b> 1370	100		
		Buffalo, N. Y.			

**NORTH AMERICAN B. C. STATIONS BY CALLS**

<b>WCOA</b> 1340 Pensacola, Fla.	500	<b>WEEU</b> 830 Reading, Pa.	1000	<b>WGCM</b> 1210 Gulfport, Miss.	100
<b>WCOB</b> 880 Meridian, Miss.	500	<b>WELI</b> 900 New Haven, Conn.	500	<b>WGES</b> 1360 Chicago, Ill.	500
<b>WCOL</b> 1210 Columbus, Ohio	100	<b>WELL</b> 1420 Battle Creek, Mich.	100	<b>WGH</b> 1310 Newport News, Va.	100
<b>WCOP</b> 1120 Boston, Mass.	500	<b>WEMP</b> 1310 Milwaukee, Wis.	100	<b>WGL</b> 1370 Fort Wayne, Ind.	100
<b>WCPO</b> 1200 Cincinnati, Ohio	100	<b>WENR</b> 870 Chicago, Ill.	50000	<b>WGN</b> 720 Chicago, Ill.	50000
<b>WCRW</b> 1210 Chicago, Ill.	100	<b>WEOA</b> 1370 Evansville, Ind.	100	<b>WGNV</b> 1210 Newburgh, N. Y.	100
<b>WCSC</b> 1360 Charleston, S. C.	500	<b>WESG</b> 850 Elmira, N. Y.	1000	<b>WGPC</b> 1420 Albany, Ga.	100
<b>WCSH</b> 940 Portland, Me.	1000	<b>WEST</b> 1200 Easton, Pa.	100	<b>WGR</b> 550 Buffalo, N. Y.	1000
<b>WDAE</b> 1220 Tampa, Fla.	1000	<b>WEVD</b> 1300 New York, N. Y.	1000	<b>WGRC</b> 1370 New Albany, Ind.	250
<b>WDAF</b> 610 Kansas City, Mo.	1000	<b>WEW</b> 760 St. Louis, Mo.	1000	<b>WGRM</b> 1210 Grenada, Miss.	100
<b>WDAH</b> 1310 El Paso, Texas	100	<b>WEXL</b> 1310 Royal Oak, Mich.	50	<b>WGST</b> 890 Atlanta, Ga.	1000
<b>WDAS</b> 1370 Philadelphia, Pa.	100	<b>WFAA</b> 800 Dallas, Texas	50000	<b>WGTM</b> 1310 Wilson, N. C.	100
<b>WDAY</b> 940 Fargo, N. Dak.	1000	<b>WFAB</b> 1300 New York, N. Y.	1000	<b>WGVA</b> 1050 Indianapolis, Ind.	1000
<b>WDBJ</b> 930 Roanoke, Va.	1000	<b>WFAM</b> 1200 South Bend, Ind.	100	<b>WGY</b> 790 Schenectady, N. Y.	50000
<b>WDBO</b> 580 Orlando, Fla.	1000	<b>WFAS</b> 1210 White Plains, N. Y.	100	<b>WHA</b> 940 Madison, Wis.	5000
<b>WDEL</b> 1120 Wilmington, Del.	250	<b>WFBC</b> 1300 Greenville, S. C.	1000	<b>WHAL</b> 950 Saginaw, Mich.	500
<b>WDEV</b> 550 Waterbury, Vt.	500	<b>WFBG</b> 1310 Altoona, Pa.	100	<b>WHAM</b> 1150 Rochester, N. Y.	50000
<b>WDGY</b> 1180 Minneapolis, Minn.	1000	<b>WFBL</b> 1360 Syracuse, N. Y.	1000	<b>WHAS</b> 820 Louisville, Ky.	50000
<b>WDNC</b> 1500 Durham, N. C.	100	<b>WFBM</b> 1230 Indianapolis, Ind.	1000	<b>WHAT</b> 1310 Philadelphia, Pa.	100
<b>WDOD</b> 1280 Chattanooga, Tenn.	1000	<b>WFBR</b> 1270 Baltimore, Md.	500	<b>WHAZ</b> 1300 Troy, N. Y.	1000
<b>WDRB</b> 1330 Hartford, Conn.	1000	<b>WFDK</b> 1310 Flint, Mich.	100	<b>WHB</b> 860 Kansas City, Mo.	1000
<b>WDSM</b> 1200 Superior, Wis.	100	<b>WFEA</b> 1340 Manchester, N. H.	500	<b>WHBB</b> 1500 Selma, Ala.	100
<b>WDSU</b> 1250 New Orleans, La.	1000	<b>WFIL</b> 560 Philadelphia, Pa.	1000	<b>WHBC</b> 1200 Canton, Ohio	100
<b>WDWS</b> 1370 Champaign, Ill.	100	<b>WFLA</b> 620 Clearwater, Fla.	1000	<b>WHBF</b> 1210 Rock Island, Ill.	100
<b>WDZ</b> 1020 Tuscola, Ill.	250	<b>WFMD</b> 900 Frederick, Md.	500	<b>WHBI</b> 1250 Newark, N. J.	1000
<b>WEAF</b> 660 New York, N. Y.	50000	<b>WFOR</b> 1370 Hattiesburg, Miss.	100	<b>WHBL</b> 1300 Sheboygan, Wis.	250
<b>WEAN</b> 780 Providence, R. I.	1000	<b>WFOY</b> 1210 St. Augustine, Fla.	100	<b>WHBQ</b> 1370 Memphis, Tenn.	100
<b>WEAU</b> 1050 Eau Claire, Wis.	1000	<b>WFTC</b> 1200 Kinston, N. C.	100	<b>WHBU</b> 1210 Anderson, Ind.	100
<b>WEBC</b> 1290 Duluth, Minn.	1000	<b>WGAL</b> 1500 Lancaster, Pa.	100	<b>WHBY</b> 1200 Green Bay, Wis.	100
<b>WEBQ</b> 1210 Harrisburg, Ill.	100	<b>WGAN</b> 640 Portland, Me.	500	<b>WHDF</b> 1370 Calumet, Mich.	100
<b>WEBR</b> 1310 Buffalo, N. Y.	100	<b>WGAR</b> 1450 Cleveland, Ohio	500	<b>WHDH</b> 830 Boston, Mass.	1000
<b>WEDC</b> 1210 Chicago, Ill.	100	<b>WGBB</b> 1210 Freeport, N. Y.	100	<b>WHDL</b> 1400 Olean, N. Y.	250
<b>WEED</b> 1420 Rocky Mount, N. C.	100	<b>WGBF</b> 630 Evansville, Ind.	500	<b>WHEN</b> 740 Portsmouth, N. H.	250
<b>WEEI</b> 590 Boston, Mass.	1000	<b>WGBI</b> 880 Scranton, Pa.	500	<b>WHFC</b> 1430 Rochester, N. Y.	500
				<b>WHEF</b> 1500 Kosciusko, Miss.	100

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WHFC</b> 1420 Cicero, Ill.	100	<b>WJBC</b> 1200 Bloomington, Ill.	100	<b>WLAP</b> 1420 Lexington, Ky.	100
<b>WHIO</b> 1260 Dayton, Ohio	1000	<b>WJBK</b> 1500 Detroit, Mich.	100	<b>WLAW</b> 680 Lawrence, Mass.	1000
<b>WHIP</b> 1480 Hammond, Ind.	5000	<b>WJBL</b> 1200 Decatur, Ill.	100	<b>WLB</b> 1250 Minneapolis, Minn.	1000
<b>WHIS</b> 1410 Bluefield, W. Va.	500	<b>WJBO</b> 1120 Baton Rouge, La.	500	<b>WLBC</b> 1310 Muncie, Ind.	100
<b>WHJB</b> 620 Greensburg, Pa.	250	<b>WJBW</b> 1200 New Orleans, La.	100	<b>WLBL</b> 900 Stevens Point, Wis.	5000
<b>WHK</b> 1390 Cleveland, Ohio	1000	<b>WJBY</b> 1210 Gadsden, Ala.	100	<b>WLBZ</b> 620 Bangor, Me.	500
<b>WHKC</b> 640 Columbus, Ohio	500	<b>WJDX</b> 1270 Jackson, Miss.	1000	<b>WLEU</b> 1420 Erie, Pa.	100
<b>WHLB</b> 1370 Virginia, Minn.	100	<b>WJEJ</b> 1210 Hagerstown, Md.	50	<b>WLLH</b> 1370 Lowell, Mass.	100
<b>WHN</b> 1010 New York, N. Y.	1000	<b>WJIM</b> 1210 Lansing, Mich.	100	<b>WLMU</b> 1210 Middlesboro, Ky.	100
<b>WHO</b> 1000 Des Moines, Iowa	50000	<b>WJJD</b> 1130 Chicago, Ill.	20000	<b>WLNH</b> 1310 Laconia, N. H.	100
<b>WHOM</b> 1450 Jersey City, N. J.	250	<b>WJMS</b> 1420 Ironwood, Mich.	100	<b>WLS</b> 870 Chicago, Ill.	50000
<b>WHP</b> 1430 Harrisburg, Pa.	500	<b>WJNO</b> 1200 W. Palm Beach, Fla.	100	<b>WLTH</b> 1400 Brooklyn, N. Y.	500
<b>WIBA</b> 1280 Madison, Wis.	1000	<b>WJR</b> 750 Detroit, Mich.	50000	<b>WLVA</b> 1200 Lynchburg, Va.	100
<b>WIBG</b> 970 Glenside, Pa.	100	<b>WJRD</b> 1200 Tuscaloosa, Ala.	250	<b>WLW</b> 700 Cincinnati, Ohio	500000
<b>WIBM</b> 1370 Jackson, Mich.	100	<b>WJSV</b> 1460 Washington, D. C.	10000	<b>WMAL</b> 630 Washington, D. C.	250
<b>WIBU</b> 1210 Poynette, Wis.	100	<b>WJTN</b> 1210 Jamestown, N. Y.	100	<b>WMAQ</b> 670 Chicago, Ill.	50000
<b>WIBW</b> 580 Topeka, Kans.	1000	<b>WJW</b> 1210 Akron, Ohio	100	<b>WMAS</b> 1420 Springfield, Mass.	100
<b>WIBX</b> 1200 Utica, N. Y.	100	<b>WJZ</b> 760 New York, N. Y.	50000	<b>WMAZ</b> 1180 Macon, Ga.	1000
<b>WICA</b> 940 Ashtabula, Ohio	250	<b>WKAQ</b> 1240 San Juan, P. R.	1000	<b>WMBG</b> 1420 Detroit, Mich.	100
<b>WICC</b> 600 Bridgeport, Conn.	500	<b>WKR</b> 850 East Lansing, Mich.	1000	<b>WMBD</b> 1440 Peoria, Ill.	1000
<b>WIL</b> 1200 St. Louis, Mo.	100	<b>WKAT</b> 1500 Miami Beach, Fla.	100	<b>WMBF</b> 610 Miami, Fla.	1000
<b>WILL</b> 580 Urbana, Ill.	1000	<b>WKBB</b> 1500 East Dubuque, Ill.	100	<b>WMBG</b> 1350 Richmond, Va.	500
<b>WILM</b> 1420 Wilmington, Del.	100	<b>WKBH</b> 1380 LaCrosse, Wis.	1000	<b>WMBH</b> 1420 Joplin, Mo.	100
<b>WIND</b> 560 Gary, Ind.	1000	<b>WKBN</b> 570 Youngstown, Ohio	500	<b>WMBI</b> 1080 Chicago, Ill.	5000
<b>WINS</b> 1180 New York, N. Y.	1000	<b>WKBO</b> 1200 Harrisburg, Pa.	100	<b>WMBQ</b> 1310 Auburn, N. Y.	100
<b>WIOD</b> 610 Miami, Fla.	1000	<b>WKBV</b> 1500 Richmond, Ind.	100	<b>WMBQ</b> 1500 Brooklyn, N. Y.	100
<b>WIP</b> 610 Philadelphia, Pa.	1000	<b>WKBW</b> 1480 Buffalo, N. Y.	5000	<b>WMBR</b> 1370 Jacksonville, Fla.	100
<b>WIRE</b> 1400 Indianapolis, Ind.	1000	<b>WKBZ</b> 1500 Muskegon, Mich.	100	<b>WMB</b> 1420 Uniontown, Pa.	250
<b>WIS</b> 560 Columbia, S. C.	1000	<b>WKEU</b> 1500 Griffin, Ga.	100	<b>WMC</b> 780 Memphis, Tenn.	1000
<b>WISN</b> 1120 Milwaukee, Wis.	250	<b>WKOK</b> 1210 Sunbury, Pa.	100	<b>WMCA</b> 570 New York, N. Y.	1000
<b>WJAC</b> 1310 Johnstown, Pa.	100	<b>WKRC</b> 550 Cincinnati, Ohio	1000	<b>WMEX</b> 1500 Boston, Mass.	100
<b>WJAG</b> 1060 Norfolk, Neb.	1000	<b>WKY</b> 900 Oklahoma City, Okla.	1000	<b>WMFD</b> 1370 Wilmington, N. C.	100
<b>WJAR</b> 890 Providence, R. I.	1000	<b>WKZO</b> 590 Kalamazoo, Mich.	1000	<b>WMFF</b> 1310 Plattsburg, N. Y.	100
<b>WJAS</b> 1290 Pittsburgh, Pa.	1000	<b>WLAC</b> 1470 Nashville, Tenn.	5000	<b>WMFG</b> 1210 Hibbing, Minn.	100
<b>WJAX</b> 900 Jacksonville, Fla.	1000	<b>WLAK</b> 1310 Lakeland, Fla.	100	<b>WMFJ</b> 1420 Daytona Beach, Fla.	100
				<b>WMFO</b> 1370 Decatur, Ala.	100

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WMFR</b> 1200	100	<b>WOV</b> 1130	1000	<b>WSAI</b> 1330	1000
High Point, N. C.		New York, N. Y.		Cincinnati, Ohio	
<b>WMIN</b> 1370	100	<b>WOW</b> 590	1000	<b>WSAJ</b> 1310	100
St. Paul, Minn.		Omaha, Neb.		Grove City, Pa.	
<b>WMMN</b> 890	500	<b>WOWO</b> 1160	10000	<b>WSAL</b> 1200	250
Fairmont, W. Va.		Fort Wayne, Ind.		Salisbury, Md.	
<b>WMFC</b> 1200	100	<b>WPAD</b> 1420	100	<b>WSAN</b> 1440	500
Lapeer, Mich.		Paducah, Ky.		Allentown, Pa.	
<b>WMPS</b> 1430	500	<b>WPAR</b> 1420	100	<b>WSAR</b> 1450	1000
Memphis, Tenn.		Parkersburg, W. Va.		Fall River, Mass.	
<b>WMSD</b> 1420	100	<b>WPAX</b> 1210	100	<b>WSAU</b> 1370	100
Sheffield, Ala.		Thomasville, Ga.		Wausau, Wis.	
<b>WMT</b> 600	1000	<b>WPAY</b> 1370	100	<b>WSAY</b> 1210	100
Cedar Rapids, Iowa		Portsmouth, Ohio		Rochester, N. Y.	
<b>WNAC</b> 1230	1000	<b>WPEN</b> 920	1000	<b>WSAZ</b> 1190	1000
Boston, Mass.		Philadelphia, Pa.		Huntington, W. Va.	
<b>WNAD</b> 1010	1000	<b>WPG</b> 1100	5000	<b>WSB</b> 740	50000
Norman, Okla.		Atlantic City, N. J.		Atlanta, Ga.	
<b>WNAX</b> 570	1000	<b>WPRA</b> 1370	100	<b>WSBC</b> 1210	100
Yankton, S. D.		Mayaguez, P. R.		Chicago, Ill.	
<b>WNBC</b> 1380	250	<b>WPRO</b> 630	500	<b>WSBT</b> 1360	500
New Britain, Conn.		Providence, R. I.		South Bend, Ind.	
<b>WNBF</b> 1500	100	<b>WPRP</b> 1420	100	<b>WSFA</b> 1410	500
Binghamton, N. Y.		Ponce, P. R.		Montgomery, Ala.	
<b>WNBH</b> 1310	100	<b>WPTF</b> 680	1000	<b>WSGN</b> 1310	100
New Bedford, Mass.		Raleigh, N. C.		Birmingham, Ala.	
<b>WNBX</b> 1260	500	<b>WQAM</b> 560	1000	<b>WSIX</b> 1210	100
Springfield, Vt.		Miami, Fla.		Nashville, Tenn.	
<b>WNBZ</b> 1290	100	<b>WQAN</b> 880	500	<b>WSJS</b> 1310	100
Saranac Lake, N. Y.		Scranton, Pa.		Winston-Salem, N. C.	
<b>WNEL</b> 1290	1000	<b>WQBC</b> 1360	1000	<b>WSM</b> 650	50000
San Juan, P. R.		Vicksburg, Miss.		Nashville, Tenn.	
<b>WNEW</b> 1250	1000	<b>WQDM</b> 1390	1000	<b>WSMB</b> 1320	1000
New York, N. Y.		St. Albans, Vt.		New Orleans, La.	
<b>WNLC</b> 1500	100	<b>WQXR</b> 1550	1000	<b>WSMK</b> 1380	200
New London, Conn.		New York, N. Y.		Dayton, Ohio	
<b>WNNY</b> 1420	100	<b>WRAK</b> 1370	100	<b>WSNJ</b> 1210	100
Watertown, N. Y.		Williamsport, Pa.		Bridgeton, N. J.	
<b>WNOX</b> 1010	1000	<b>WRAW</b> 1310	100	<b>WSOC</b> 1210	100
Knoxville, Tenn.		Reading, Pa.		Charlotte, N. C.	
<b>WNYC</b> 810	1000	<b>WRBL</b> 1200	100	<b>WSPA</b> 920	1000
New York, N. Y.		Columbus, Ga.		Spartanburg, S. C.	
<b>WOAI</b> 1190	50000	<b>WRC</b> 950	500	<b>WSPD</b> 1340	1000
San Antonio, Texas		Washington, D. C.		Toledo, Ohio	
<b>WOC</b> 1370	100	<b>WRDO</b> 1370	100	<b>WSPR</b> 1140	500
Davenport, Iowa		Augusta, Me.		Springfield, Mass.	
<b>WOI</b> 640	5000	<b>WRDW</b> 1500	100	<b>WSUI</b> 880	500
Ames, Iowa		Augusta, Ga.		Iowa City, Iowa	
<b>WOKO</b> 1430	500	<b>WREC</b> 600	1000	<b>WSUN</b> 620	1000
Albany, N. Y.		Memphis, Tenn.		St. Petersburg, Fla.	
<b>WOL</b> 1310	100	<b>WREN</b> 1220	1000	<b>WSVA</b> 550	500
Washington, D. C.		Lawrence, Kans.		Harrisonburg, Va.	
<b>WOLS</b> 1200	100	<b>WRGA</b> 1500	100	<b>WSVS</b> 1370	50
Florence, S. C.		Rome, Ga.		Buffalo, N. Y.	
<b>WOMI</b> 1500	100	<b>WRJN</b> 1370	100	<b>WSYB</b> 1500	100
Owensboro, Ky.		Racine, Wis.		Rutland, Vt.	
<b>WOMT</b> 1210	100	<b>WRNL</b> 880	500	<b>WSYR</b> 570	1000
Manitowoc, Wis.		Richmond, Va.		Syracuse, N. Y.	
<b>WOOD</b> 1270	500	<b>WROK</b> 1410	500	<b>WTAD</b> 900	1000
Grand Rapids, Mich.		Rockford, Ill.		Quincy, Ill.	
<b>WOPI</b> 1500	100	<b>WROL</b> 1310	100	<b>WTAG</b> 580	1000
Bristol, Tenn.		Knoxville, Tenn.		Worcester, Mass.	
<b>WOR</b> 710	50000	<b>WRR</b> 1280	500	<b>WTAL</b> 1310	100
Newark, N. J.		Dallas, Texas		Tallahassee, Fla.	
<b>WORC</b> 1280	500	<b>WRTD</b> 1500	100	<b>WTAM</b> 1070	50000
Worcester, Mass.		Richmond, Va.		Cleveland, Ohio	
<b>WORK</b> 1320	1000	<b>WRUF</b> 830	5000	<b>WTAQ</b> 1330	1000
York, Pa.		Gainesville, Fla.		Green Bay, Wis.	
<b>WORL</b> 920	500	<b>WRVA</b> 1110	5000	<b>WTAR</b> 780	1000
Boston, Mass.		Richmond, Va.		Norfolk, Va.	
<b>WOSU</b> 570	750			<b>WTAW</b> 1120	500
Columbus, Ohio				College Station, Tex.	

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WTAX</b> 1210 Springfield, Ill.	100	<b>XEAW</b> 960 Reynosa, Tams.	50000	<b>XEI</b> 1370 Morelia, Mich.	125
<b>WTBO</b> 800 Cumberland, Md.	250	<b>XEAY</b> 1240 Mexico City, D. F.	100	<b>XEJ</b> 1020 Juarez, Chih.	1000
<b>WTCN</b> 1250 Minneapolis, Minn.	1000	<b>XEB</b> 1030 Mexico City, D. F.	10000	<b>XEJP</b> 1130 Mexico City, D. F.	100
<b>WTEL</b> 1310 Philadelphia, Pa.	100	<b>XEBA</b> 1080 Guzman, Jal.	20	<b>XEJW</b> 870 Mexico City, D. F.	....
<b>WTHT</b> 1200 Hartford, Conn.	100	<b>XEBG</b> 820 Tijuana, B. Cfa.	1000	<b>XEK</b> 990 Mexico City, D. F.	100
<b>WTIC</b> 1040 Hartford, Conn.	50000	<b>XEBH</b> 930 Hermosillo, Sonora	500	<b>XEKL</b> 1240 Leon, Guan.	500
<b>WTJS</b> 1310 Jackson, Tenn.	100	<b>XEBI</b> 1000 Agascalientes, Ags.	25	<b>XEL</b> 780 Mexico City, D. F.	1000
<b>WTMJ</b> 620 Milwaukee, Wis.	1000	<b>XEBJ</b> 1160 Merida, Yuc.	20	<b>XELA</b> 1240 Saltillo, Coah.	50
<b>WTMV</b> 1500 East St. Louis, Ill.	100	<b>XEBK</b> 1000 Nevo Laredo, Tams.	60	<b>XELO</b> 670 Tijuana, B. Cfa.	50000
<b>WTNJ</b> 1280 Trenton, N. J.	500	<b>XEBL</b> 1220 Mazatlan, Sin.	50	<b>XELZ</b> 1370 Mexico City, D.F.	100
<b>WTOC</b> 1260 Savannah, Ga.	1000	<b>XEBO</b> 1310 Irapuato, Guan.	25	<b>XEMG</b> 1060 Atzacapotzalco, D. F.	100
<b>WTOL</b> 1200 Toledo, Ohio	100	<b>XEBS</b> 1240 Mexico City, D. F.	200	<b>XEMO</b> 860 Tijuana, L. C.	5000
<b>WTRC</b> 1310 Elkhart, Ind.	100	<b>XEBX</b> 640 Sabinas, Coah.	250	<b>XEMU</b> 580 Piedras Negras, Coah.	....
<b>WVFW</b> 1400 Brooklyn, N. Y.	500	<b>XEBZ</b> 1160 Mexico City, D. F.	100	<b>XEMX</b> 1280 Mexico City, D. F.	100
<b>WWAE</b> 1200 Hammond, Ind.	100	<b>XEC</b> 1150 Tijuana, L. C.	100	<b>XENC</b> 860 Mexico City, D. F.	50
<b>WWJ</b> 920 Detroit, Mich.	5000	<b>XECL</b> 1100 Mexicali, B. Cfa.	1700	<b>XENT</b> 910 Nuevo Laredo, Tams.	150000
<b>WWL</b> 850 New Orleans, La.	10000	<b>XECW</b> 1310 Mexico City, D. F.	10	<b>XEOK</b> 760 Tijuana, L. C.	2500
<b>WWNC</b> 570 Asheville, N. C.	1000	<b>XECZ</b> 1370 San Luis Potosi, S.L.P.	100	<b>XEP</b> 1160 Juarez, Chih.	500
<b>WWRL</b> 1500 Woodside, N. Y.	100	<b>XED</b> 1160 Guadalajara, Jal.	2500	<b>XEPN</b> 730 Piedras Negras, Coah.	100000
<b>WWSW</b> 1500 Pittsburgh, Pa.	100	<b>XEDA</b> 1220 Gra. Anaya, D. F.	200	<b>XERA</b> 840 Villa Acuna, Coah.	350000
<b>WWVA</b> 1160 Wheeling, W. Va.	5000	<b>XEDF</b> 810 Nuevo Laredo, Tams.	75	<b>XES</b> 990 Tampico, Tams.	250
<b>WXYZ</b> 1240 Detroit, Mich.	1000	<b>XEDP</b> 1080 Mexico City, D. F.	500	<b>XET</b> 690 Monterrey, N. L.	5000
<b>W3XDD</b> .... Whippany, N. J.	50000	<b>XEDW</b> 1150 Minatitlan, Ver.	20	<b>XETB</b> 1310 Torreon, Coah.	125
<b>W3XJ</b> 1060 College Park, Md.	100	<b>XEE</b> 1210 Durango, Dgo.	50	<b>ETF</b> 1220 Veracruz, Ver.	30
<b>W8XO</b> 700 Cincinnati, Ohio	500000	<b>XEF</b> 1450 Juarez, Chih.	100	<b>XETH</b> 1210 Puebla, Pue.	100
<b>XEAA</b> 750 Mexicali, B. C.	200	<b>XEFA</b> 1180 Tacuba, D. F.	500	<b>XEU</b> 1010 Veracruz, Ver.	250
<b>XEAC</b> 980 Tijuana, L. C.	1000	<b>XEFB</b> 870 Monterrey, N. L.	200	<b>XEW</b> 890 Mexico City, D. F.	50000
<b>XEAD</b> 1060 Guadalajara, Jal.	125	<b>XEFC</b> 550 Merida, Yuc.	100	<b>XEX</b> 1310 Monterrey, N. L.	125
<b>XEAF</b> 990 Nogales, Son.	750	<b>XEFE</b> 980 Laredo, Tams.	150	<b>XEXB</b> 1270 Jalapa, Ver.	50
<b>XEAG</b> 1310 Cordoba, Ver.	10	<b>XEFI</b> 1440 Chihuahua, Chih.	250	<b>XEXC</b> 810 Agascalientes, Ags.	350
<b>XEAL</b> 660 Mexico City, D. F.	1000	<b>XEFJ</b> 1230 Monterrey, N. L.	100	<b>XEXD</b> 1340 Jalapa, Ver.	350
<b>XEAM</b> 750 Matamoros, Tams.	25	<b>XEFO</b> 930 Mexico City, D. F.	5000	<b>XEXE</b> 1270 Mexico City, D. F.	17
<b>XEAO</b> 660 Mexicali, B. C.	250	<b>XEFV</b> 1210 Juarez, Chih.	100	<b>XEXH</b> 1250 San Luis Potosi, S.L.P.	250
<b>XEAP</b> 1240 Obregon, Son.	50	<b>XEFW</b> 1310 Tampico, Tams.	250	<b>XEXS</b> 1000 Portable in Mexico	100
<b>XEAS</b> 1160 Saltillo, Coah.	50	<b>XEG</b> 1220 Monterrey, N. L.	250	<b>XEYO</b> 940 Mexico City, D. F.	500
<b>XEAT</b> 1210 Parral, Chih.	250	<b>XEH</b> 720 Monterrey, N. L.	250	<b>XEZ</b> 630 Merida, Yuc.	500



# Special DX Calendar

THE time given in the DX Calendar following is in EST by the twenty-four hour clock.

## DX Tips Periods

Mon., 2115-2130, CJCJ, 690 kcs.  
 Tues., 1735-1800, W2XAF, 9530 kcs,  
 and W2XAD, 15330 kcs.  
 Wed., 0035-0045, KOY, 1390 kcs.  
 1345-1400, WTAR, 780 kcs.  
 Thur., 0230-0245, KGMB, 1320 kcs.  
 Sat., 0015-0030, W8XK, 6140 kcs.  
 0230-0245, KLS, 1280 kcs.

## "Programs of the Week"

The IDA "Programs of the Week", broadcast each Sunday morning, are full-hour programs, full of surprises, thrills, and laughs. Don't miss any of them. (CHWK requires ten cents for a verification.)

Dec. 23 (Thurs.), 0300-0400, WJJD, 1130 kcs.  
 Dec. 30 (Thurs.), 0100-0200, WTAM, 1070 kcs.  
 Jan. 16 (Sun.), 0300-0400, WCCO, 810 kcs.  
 Jan. 24 (Mon.), 0300-0400, WHAM, 1150 kcs.  
 Jan. 30 (Sun.), 0300-0400, CHWK, 780 kcs.

Feb. 6 (Sun.), 0300-0400, KWYO, 1370 kcs.  
 Feb. 27 (Sun.), 0330-0400, KGU, 750 kcs.  
 Mar. 13 (Sun.), 0300-0400, WCKY, 1490 kcs.  
 Mar. 27 (Sun.), 0300-0400, KFOR, 1210 kcs.

## Special Broadcasts

Jan. 1, 0245-0400, CHWK, 780 kcs (UDXC).  
 Jan. 11, 0510-0530, KAST, 1370 kcs (UDXC).  
 Feb. 5, 0245-0400, CHWK, 780 kcs (UDXC).  
 Feb. 8, 0510-0530, KAST, 1370 kcs (UDXC).  
 Mar. 5, 0245-0400, CHWK, 780 kcs (UDXC).  
 Apr. 2, 0245-0400, CHWK, 780 kcs (UDXC).  
 May 7, 0245-0400, CHWK, 780 kcs (UDXC).  
 June 4, 0245-0400, CHWK, 780 kcs (UDXC).

## The Month's Changes

(Continued from Page 58)

1260 WNBX Springfield, Vt. Twin States Brdstg. Corp., 39 Main St.

### PERMIT TO CHANGE FREQUENCY

1190 WATR Waterbury, Conn., to 1290  
 1240 KLPN Minot, N. Dak., to 1360  
 1250 WCAL Northfield, Minn., to 760  
 WLB Minneapolis, Minn., to 760  
 1310 KINY Juneau, Alaska, to 1430  
 KIT Yakima, Wash., to 1250  
 WOL Washington, D. C., to 1230  
 1420 KABR Aberdeen, S. Dak., to 1390

### PERMIT TO CHANGE POWER

590 WKZO Kalamazoo, Mich. 250 (1)  
 810 CMCF Havana, Cuba. 5000  
 880 WCOF Meridian, Miss. 1000  
 900 KGBU Ketchikan, Alaska. 1000  
 950 WRC Washington, D. C. 1000 (5)  
 1190 WATR Waterbury, Conn. 250  
 1240 KLPN Minot, N. Dak. 500 (1)  
 1250 WCAL Northfield, Minn. 5000  
 WLB Minneapolis, Minn. 5000  
 1310 KINY Juneau, Alaska. 250  
 KIT Yakima, Wash. 250 (.5)  
 WOL Washington, D. C. 1000  
 1340 WCOA Pensacola, Fla. 1000  
 1420 KABR Aberdeen, S. Dak. 500 (1)

1430 WBNS Columbus, Ohio, 1000 (5)  
 1490 KFBK Sacramento, Calif. 10000

### PERMIT TO CHANGE LOCATION

570 KGKO Wichita Falls, Tex., to Fort Worth

### FOREIGN BROADCAST

(Excluding Oceania, which is listed complete in this issue)

### NEW

1122 Stagshaw, Gt. Britain. 60000 w.  
 1357 Genoa No. 2, Italy. 5000  
 Rome No. 3, Italy. 1000

### FREQUENCY

720 PRAS Pernambuco, Brazil, from 730  
 740 PRA4 San Salvador, Brazil, from 1090  
 PRA6 Sao Paulo, Brazil, from 800  
 800 PRA2 Rio de Janeiro, Brazil, from 780  
 1060 PRD2 Rio de Janeiro, Brazil, from 1240  
 1080 ..... Joao Pessoa, Brazil, from 640  
 1120 PRH8 Rio de Janeiro, Brazil, from 1080  
 1220 PRA9 Rio de Janeiro, Brazil, from 1120  
 1420 PRB2 Curitiba, Brazil, from 1480  
 1470 PRE6 Nietheroy, Brazil, from 1170

### POWER

850 ..... Sofia, Bulgaria, 100,000 from 1000  
 1220 PRA9 Rio de Janeiro, Brazil, 25000 from 1000

### DELETE

580 PRF8 San Salvador, Brazil  
 620 PRB3 Juiz de Fora, Brazil  
 630 PRF6 San Salvador, Brazil  
 1122 ..... Newcastle, Gt. Britain

# At DEADLINE . . .

Merlin Almstead of Washington, D. C. reports ZNS, Nassau, Bahamas, on 540 kcs, daily from 8:30 to 9:30 pm, EST.

WICA, 940 Ashtabula, Ohio is now on the air.

CMQ, Havana, has moved to 600 kcs.

On December 29 the Irish Free State became the Irish Republic.

CMCX Havana has moved to 1380 kcs.

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Washington,  
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(Please write plainly.)

Name *Matthew E. Leahner* Age *2 155*  
Address *181 Bailey Street*  
City *Lawrence, Mass.* State *Mass.*

14X-1